IBM PC Institute

Personal Systems Reference IBM ThinkPad Notebooks *1992 to 2001 - withdrawn*

January 2001 - Version 214

IBM ThinkPad® 240 - withdrawn

IBM® ThinkPad®

Processor	**Intel® Mobile Celeron™ 300, 366, or 400MHz**[1] / 66MHz system bus		
Processor features	No upgrade / processor on Ball Grid Array (H-PBGA)		
L2 cache	**128KB / onboard (full speed)** / synchronous pipelined burst / ECC / write-back		
Diskette drive	External 3.5" 1.44MB / connects to left side with FDD port / includes case and cable		
CD-ROM	*Option:* External CD-ROM / via Portable Drive Bay and 24X-10X[5] CD-ROM UltraslimBay Drive		
DVD-ROM	*Option:* External DVD-ROM / via Portable Drive Bay and DVD-ROM UltraslimBay Drive		
Type-model	✂ **2609-21U**	✂ **2609-31U**	✂ **2609-41U**
Processor	**Celeron 300MHz**	**Celeron 366MHz**	**Celeron 400MHz**
Disk - size / ms	**6.4GB**[4] / 13ms read / Ultra DMA/33 or PIO Mode 4		**12.0GB** / 12ms read / ATA-66 or PIO4
Preload (see side)	**Windows 98**[7]	**Windows 98**[7] **SE**	**Windows 98**[7] **SE**
Avail / withdrawn date	June 1999 / February 2000	November 1999 / February 2000	February 2000 / February 2001
Display - size and type	**10.4" TFT color** (264.16mm) **/ Active Matrix**		
Display - technology	**SVGA** / 800x600 / 15ms refresh (typical) / 50 to 110 nits **16.7 million simultaneous colors** / 250 to 1 contrast (typical)		
Graphics - controller	**NeoMagic™ MagicMedia128XD™** (NM2160C) / 128-bit accelerator / DDC2B / **2MB** / SGRAM (embedded) / color space conversion		
Graphics - features	Simultaneous LCD and CRT[26] / 180 degree tilt / no multiple-monitor support / ext SVGA to 1024x768 with 65,536 colors		
Memory - std / max	**64MB** / 192MB[33]		
Memory - features	SDRAM / non-parity / 66MHz / 3.3 volt / 64-bit 1 available socket for JEDEC 144-pin SO DIMM / std memory soldered to motherboard / socket accessed by removing three screws and keyboard		
Disk controller / disk	EIDE / PCI 2.1 / supports one internal disk / customer can remove disk for upgrade (by removing three screws on base)		
Keyboard	Keyboard palm rest / 95% size of current standard ThinkPad keyboards / 18mm key pitch		
Pointing	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace / sensitivity / spare caps		
Dimensions	10.2 x 8.0 x 1.05" (86 cubic inches) / 260mm x 202mm x 26.6mm		
Weight[2]	Approximately 2.98 lbs (1.35 kg) with battery and disk		
Case material	IBM ThinkPad UltraCarbon™ casing / Top: carbon-fiber reinforced plastic; Bottom: glass-fiber reinforced plastic		
Battery - type	Li-Ion (3 cell) / intelligent / left side		
Battery - life[10]	*21U:* 1.9 hrs *31U:* 1.8 hrs *41U:* 1.7 hrs Optional 6 cell battery 3.8 hrs (21U) or 3.6 hrs (31U) or 3.4 hrs (41U)		
Charge time[10]	3.5 hrs on / 3.0 hrs off		
Architecture	**Intel 440DX PCIset / Intel 82371EB PIIX4M** (EIDE, PCI to ISA bridge, USB) Texas Instruments® **TI1211** PCMCIA controller / NS PC97338 (FDC, IR, I/O) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB, audio, modem) ISA (diskette, serial, parallel, infrared)		
Docking station	None		
Port replicator	None (all standard ports already on back of system)		
PC Card Std slots	1 Type I or 1 Type II / CardBus 32-bit / PCMCIA 2.1 / no Zoomed Video support		
USB / serial / parallel	One USB / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	APM-aware BIOS / Ultraslim AC adapter, barrel, 3-prong, 56 watts		
Video (TV) out	None		
MPEG decoder	None (software support for MPEG-1 in Windows 98)		
Data/fax modem	**56K**[37] V.90 / integrated in system / Mini PCI Type IIIb / Lucent 1646 / not voice-capable		
Audio	16-bit SoundBlaster Pro™ support / ESS 1946 / PCI / full duplex		
Speaker	One internal speaker (.5 watt)		
Audio features	Internal microphone / Fn+Insert and Fn+Delete volume control with mute		
Audio in/out jacks	Microphone jack (mono) / headphone jack (stereo) / line-in jack (stereo)		
Infrared ports	Infrared port on right side / IrDA 1.1 compatible / up to 4Mbps		
Security	Power-on password / setup password / disk password / security keyhole		
Limited warranty[11]	**1 year** - carry-in or ThinkPad EasyServ™[31] (door-to-door depot repair service)		
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date		

WINDOWS 98 PRELOAD[16]

- Microsoft® Windows® 98 (Model 21U) or Microsoft® Windows® 98 Second Edition (Model 31U and 41U)
- Online User's Guide
- ThinkPad Configuration Program
- ThinkPad Utilities
- ThinkPad on the Net
- Access ThinkPad
- IBM Update Connector
- RingCentral Fax
- IBM Registration
- IBM Global Network Dialer
- Netscape Communicator
- PC-Doctor
- ConfigSafe®
- Norton AntiVirus™ (OEM Version)
- Universal Management Services (web)

✧Software Selections CD
✧Lotus® SmartSuite Millennium CD
✧Recovery CD-ROM (Windows 98)
✧Recovery CD-ROM (Windows 95)[7]

Disks are S.M.A.R.T.[29] compliant

Color depth	LCD	External Monitor			
Resolution	TFT	60Hz	70Hz	75Hz	85Hz
640x480	16M	16M	--	16M	16M
800x600	16M	16M	--	16M	16M
1024x768*	64K	64K	64K	64K	--
1280x1024	--	--	--	--	--

* Virtual screen mode on 10.4" LCD

All models:
- C: drive is FAT16 of 2GB
- D: drive is FAT32 of remaining space

Pressing F1 during startup brings up IBM BIOS Setup Utility

- ThinkPad Proven™ solutions[12] (visit www.ibm.com/pc/us/thinkpad/proven)

OPTIONS

- 32MB SO DIMM 3.3v NP SDRAM	76H0294
- 64MB SO DIMM 3.3v NP SDRAM	20L0241
- 128MB SO DIMM 3.3v NP SDRAM	01K1150
- 12GB disk, 12ms read, ATA-66	05K9245
- High-capacity 6-cell Li-Ion Battery	02K6580
- Ultraslim 56 watt AC Adapter (3-prong)	02K6545
- V.90 PC Card Modem with XJACK[24]	10L7393
- V.90 56K PC Card Modem with Cellular Capability[24]	02K4196
- 10/100 Ethernet CardBus PC Card	08L3147
- 10/100 EtherJet plus 56K modem[37]	08L3167
- Turbo 16/4 Token-Ring PC Card II	34L1401
- Smart Card Security Kit	33L5075
- IBM Portable Drive Bay (UltraslimBay)	37L1511
- Zip 100MB UltraslimBay Drive	37L1507
- SuperDisk LS-120 UltraslimBay Drive	20L1929
- DVD-ROM UltraslimBay Drive	05K8890
- 24X-10X CD-ROM UltraslimBay Drive	05K9122
- IBM MultiPort USB Hub	00N8215
- IBM ThinkPad Mobile Mouse	28L3670

FEATURES

Wired for Management 1.1a compliant
DMI 2.0 compliant
PC 98 compliant
ACPI ready (APM enabled)
Setup Guide, User's Reference, Windows OS manual, and Quick Reference Card
System Status Indicators
Reset switch on bottom
Plug and Play 1.0a
Standby, suspend, redisafe, and hibernation modes
ENERGY STAR compliant
International Warranty Service[14]
IBM SystemXtra®,[35]
24 hour / 7 day[30] telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

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✂ = Withdrawn from marketing
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IBM ThinkPad® 240X - withdrawn

IBM® ThinkPad®

Processor	**Intel® Mobile Celeron™ 450MHz**[1] or **Intel Mobile Pentium® III 500MHz / 100MHz system bus**			
L2 cache	*Celeron:* **128KB** / onboard (at processor speed); *Pentium III:* **256KB** / onboard (at processor speed)			
Diskette drive	External 3.5" 1.44MB / connects to left side with FDD port / includes case and cable			
CD-ROM	*Option:* External via USB port or via Portable Drive Bay 2000 and 24X-10X[5] CD-ROM Ultrabay 2000 Drive			
LS-120 and CD-RW	*Option:* External via Portable Drive Bay 2000 and drive option / no support for DVD in the Portable Drive Bay			
Type-model	**2609-51U**	**2609-52U**	**2609-61U**	**2609-62U**
Processor	**Celeron 450MHz**	**Celeron 450MHz**	**Pentium III 500MHz**	**Pentium III 500MHz**
Disk - size / ms	**6.0GB**[4] / 13ms read / Ultra DMA/33 or PIO Mode 4		**12.0GB** / 12ms read / ATA-66 or PIO4	
Preload (see side)	**Windows 98**[7] **SE**	**Windows 2000**	**Windows 98**[7] **SE**	**Windows 2000**
Available date	June 2000	June 2000	June 2000	June 2000
Display - size and type	**10.4" TFT color** (264.16mm) **/ Active Matrix**			
Display - technology	**SVGA** / 800x600 / 15ms refresh (typical) / 50 to 110 nits 16.7 million simultaneous colors / 150 to 1 contrast (typical)			
Graphics - controller	**Silicon Motion® Lynx EM+ SM712G™** / DDC2B / **2MB** / SGRAM (embedded) / color space conversion / multiple monitor support[26] for Windows 98			
Graphics - features	Simultaneous LCD and CRT[26] / 180 degree tilt / external SVGA to 1024x768 with 65,536 colors			
Memory - std / max	**64MB** / 192MB[33]			
Memory - features	SDRAM / non-parity / **100MHz** / 3.3 volt / 64-bit 1 available socket for JEDEC 144-pin SO DIMM / std memory soldered to motherboard / socket accessed by removing three screws and keyboard			
Disk controller / disk	EIDE / PCI 2.1 / supports one internal disk / customer can remove disk for upgrade (by removing three screws on base)			
Keyboard	Keyboard palm rest / 95% size of current standard ThinkPad keyboards / 18mm key pitch			
Pointing	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace / sensitivity / spare caps			
Dimensions	10.2 x 8.0 x 1.05" (86 cubic inches) / 260mm x 202mm x 26.6mm			
Weight[2]	*51U/52U:* approximately 2.98 lbs (1.35 kg) with battery and disk *61U/62U:* approximately 3.28 lbs (1.49 kg) with battery and disk			
Case material	IBM ThinkPad UltraCarbon™ casing / Top: carbon-fiber reinforced plastic; Bottom: glass-fiber reinforced plastic			
Battery - type	*51U/52U:* Li-Ion (3 cell); *61U/62U:* Li-Ion (6 cell); *All:* intelligent / left side			
Battery - life[10]	*51U/52U:* 2.1 hrs *61U/62U:* 4.2 hrs *51U/52U:* Optional 6 cell battery for 4.2 hrs			
Charge time[10]	3.5 hrs on / 3.0 hrs off			
Architecture	**Intel 440MX PCIset (82443MX)** / combines Host Bridge and PIIX4 in single chip / TI1211 PCMCIA controller / NS PC97338 (FDC, IR, I/O) / PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB, audio, modem) ISA (diskette, serial, parallel, infrared)			
Docking station	None			
Port replicator	None (all standard ports already on back of system)			
PC Card Std slots	1 Type I or 1 Type II / CardBus 32-bit / PCMCIA 2.1 / no Zoomed Video support			
USB / serial / parallel	One USB / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)			
Other features	72 watt AC adapter			
Video (TV) out	None			
Data/fax modem	**56K**[37] V.90 / Mini PCI Type IIIb / Lucent 1646			
Audio	16-bit SoundBlaster Pro™ support / CS4281 PCI audio / CS4297A AC97 codec			
Speaker	One internal speaker (.5 watt)			
Audio features	Internal microphone / Fn+Insert and Fn+Delete volume control with mute			
Audio in/out jacks	Microphone jack (mono) / headphone jack (stereo) / line-in jack (stereo)			
Infrared ports	Infrared port on right side / IrDA 1.1 compatible / up to 4Mbps			
Security	Power-on password / setup password / disk password / security keyhole			
Limited warranty[11]	**1 year** - carry-in or ThinkPad EasyServ™[31] (door-to-door depot repair service)			
Service options[15]	Service upgrades available based on specific ThinkPad purchased			

WINDOWS 98 PRELOAD[16]

- Microsoft® Windows® 98 Second Edition
- Online User's Guide
- ThinkPad Configuration Program
- ThinkPad Utilities
- Access ThinkPad
- IBM Update Connector
- PC-Doctor
- ConfigSafe®
- Norton AntiVirus™ (OEM Version)
- Universal Manageability Services (web)
- ✧Software Selections CD
- ✧Lotus® SmartSuite® Millennium CD
- ✧Recovery CD-ROM (Windows 98)
- ✧Recovery CD-ROM (Windows 95)[7]

WINDOWS 2000 PRELOAD[16]

- Windows 2000® Professional
- ThinkPad Utilities
- Online User's Guide
- ThinkPad Configuration Program
- PC-Doctor
- ConfigSafe
- Norton AntiVirus™ (OEM Version)
- IBM Update Connector
- Universal Manageability Services (web)
- ✧Software Selections CD
- ✧Lotus® SmartSuite® Millennium CD
- ✧Recovery CD-ROM (Windows 2000)
- ✧Recovery CD-ROM (Windows NT)[40]

Color depth	LCD	External Monitor			
Resolution	TFT	60Hz	70Hz	75Hz	85Hz
640x480	16M	16M	--	16M	16M
800x600	16M	16M	--	16M	16M
1024x768*	64K	64K	64K	64K	--
1280x1024	--	--	--	--	--

* Virtual screen mode on 10.4" LCD

All models:
- C: drive is FAT16 of 2GB
- D: drive is FAT32 of remaining space

Pressing F1 during startup brings up IBM BIOS Setup Utility

Disks are S.M.A.R.T.[29] compliant

- ThinkPad Proven™ solutions[12] (visit www.ibm.com/pc/us/thinkpad/proven)

OPTIONS

- 32MB SO DIMM 100MHz NP SDRAM	20L0253
- 64MB SO DIMM 100MHz NP SDRAM	20L0254
- 128M SO DIMM 100MHz NP SDRAM	20L0255
- 12GB disk, 12ms read, ATA-66	05K9245
- High capacity 6-cell Li-Ion Battery	02K6580
- Ultraslim 72 watt AC Adapter	02K6699
- DC Auto Adapter	02K3381
- V.90 56K Intern Modem with GSM	02K4280
- 10/100 EtherJet™ CardBus Adapter	34L5301
- IBM 16/4 Token-Ring CardBus Adap	34L4801
- Smart Card Security Kit	33L5075
- IBM Portable Drive Bay 2000	19K4480
- IBM MultiPort USB Hub	00N8215
- IBM 340MB microdrive	00N8073
- IBM USB Portable CD-ROM Drive	33L5151
- IBM USB Mobile Mouse	33L3243
- IBM USB Numeric Keypad	33L3225

FEATURES

Toll-free hardware support during the warranty period
Personalized web-based support
Wired for Management 1.1a compliant
DMI 2.0-compliant
PC 99-compliant
ACPI ready (APM enabled)
Setup Guide, User's Reference, Windows OS manual, and Quick Reference Card
System Status Indicators
Reset switch on bottom
Plug and Play 1.0a
Standby, suspend, redisafe, and hibernation modes
ENERGY STAR compliant
International Warranty Service[14]
IBM SystemXtra®,[35]
24 hour / 7 day[30] telephone, fax, electronic, and Internet (www.ibm.com/pc/us) support

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Withdrawn from marketing effective February 2001

No warranties are expressed or implied in this summary
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IBM ThinkPad 300, 500, 700, 700C - withdrawn

IBM® ThinkPad®:	⋊ **300** monochrome	⋊ **500** sub-notebook	⋊ **700** monochrome	⋊ **700C** color TFT
Processor type	**80386 SL**	**80486 SLC2**	**80486 SLC** ◩	**80486 SLC** ◩
Processor speed	**25 MHz**	**50/25 MHz**	**25 MHz**	**25 MHz**
Memory cache	64 KB external	16 KB internal	16 KB internal	16 KB internal
Coprocessor socket	Yes (for 387 SL)	No	Yes (for 387 SL)	Yes (for 387 SL)
Diskette drive	3.5" 1.44 MB	**External** 3.5" 1.44 MB	3.5" 1.44 MB	3.5" 1.44 MB
Price (retail USD)	$ 1,999 | $ 2,199	$ 1,999 | $ 2,499	$ 2,750 | $ 2,950	$ 4,350
Type - model	2615-065 | 2615-067	2603-081 | 2603-171	9552-300 | 9552-301	9552-30B
Hard drive - size	**80 MB** ◩ | **120 MB**	**85 MB** | **170 MB**	**82 MB** ◩ | **122 MB** ◩	**120 MB** ◩
Hard drive - speed	19 ms | 17 ms	15 ms | 15 ms	17 ms ❍ | 17 ms ❍	17 ms ❍
Available date	Oct 92 | Oct 92	June 93 | Aug 93	Oct 92 | Oct 92	Oct 92
Withdrawal date	Oct 93 | Oct 93	Dec 93 | Dec 93	Oct 93 | Oct 93	Oct 93
Display - type	VGA mono ◩	VGA mono	VGA mono ◩	**VGA color**
Display - grey scales	64 grey scales ◩	64 grey scales	64 grey scales ◩	256 colors 640x480
Display - techology	STN ◩	STN	STN ◩	Thin film transistor
Display - light source	LCD - Side-lit ◩	LCD - backlit	LCD - backlit ◩	Active matrix
Display - size (diag)	9.5 inch ◩	7.4 inch	9.5 inch ◩	10.4 inch
Display - contrast ratio	13 to 1 ◩	18 to 1	18 to 1 ◩	100 to 1
180 degree display tilt	Yes	Yes (external SVGA)	Yes	Yes
Memory - std / max	4 / 12 MB 80 ns	4 / 12 MB 80 ns	4 / 16 MB 80 ns	4 / 16 MB 80 ns
Mem - sockets empty	2 sockets (parity)	1 socket (non-parity)	2 sockets (parity)	2 sockets (parity)
SIMM/ICs available	2, 8 MB SIMMs	4, 8 MB ICs (3.3 volt)	2, 4, 8 MB ICs	2, 4, 8 MB ICs
Keyboard / # of keys	Full size alp/num/ 82	90% size alp/num/ 81	Full size alp/num/ 84	Full size alp/num/84
Fn key functions	Yes (back panel)	11 (in any appl)	None	None
Keyboard slope	Miniature (option)	No	8 degrees (legs)	8 degrees (legs)
Mouse/pointing	Yes	**TrackPoint II**™	**TrackPoint II**	**TrackPoint II**
Ext keyboard support	12 (in any appl)	No	Yes (with opt cable)	Yes (with opt cable)
Dimensions	12.1 x 8.5 x 1.7"	10.1 x 7.2 x 1.6"	11.7 x 8.3 x 1.9"	11.7 x 8.3 x 2.2"
Cubic inches	175 inches	116 inches	185 inches	214 inches
Carrying case	Blk nylon (option)	Blk nylon (option)	Blk nylon (option)	Blk nylon (option)
Color	Charcoal grey	Black	Black	Black
Weight (with battery)	5.9 pounds	3.8 pounds	6.5 pounds	7.6 pounds
Battery - type	Nickel hydride	**Sealed lead acid**	Nickel hydride	Nickel hydride
Batt - life (per battery)	3 to 10 hours	3 to 9 hours	3.8 to 7.5 hours	2 to 4 hours
Charge time - on / off	10 hrs / 2 hrs	2.5 hrs / 1.2 hrs	3 hrs / 2 hrs	1.5 hrs / 1.4 hrs
Battery - options	None	Nickel hydrid ($49)	Yes - status indicator	Yes - status indicator
Architecture	AT bus	AT bus	Micro Channel®	Micro Channel
External AT/MCA port	No	No	Yes	Yes
Comm Crtrdge (1 card)	No (fast parallel)	No	Yes (black)	Yes (black)
Docking Station	No	No	Yes (3550-002) blk	Yes (3550-002) blk
Port replicator	Yes	No	Yes (black)	Yes (black)
Modem/serial slot	None	No	Yes	Yes
PCMCIA 2.01 slots	Modem only	**1 Type I or 1 Type II**	None	None
Visible LEDs - closed	Yes - batt charge	Yes	Yes	Yes
Serial / parallel ports	Yes / Yes (EPP)	Yes (cable) / Yes (EPP)	Yes / Yes (DMA)	Yes / Yes (DMA)
APM-aware BIOS	APM-aware BIOS	APM-aware BIOS	APM-aware BIOS	APM-aware BIOS
Other features	Hrdw security loop	Hibernation mode	Hrdw security loop	Hrdw security loop
Preinstalled software	None	DOS 5.02, PRODIGY®	DOS 5.02, PRODIGY	DOS 5.02, PRODIGY
Warranty	1 year - carry in or EasyServ (opt onsite)	1 year - carry in or EasyServ (opt onsite)	**3 year** - carry in or EasyServ (opt onsite)	**3 year** - carry in or EasyServ (opt onsite)

The 700/720 family hard disks, batteries, and docking station are NOT compatible with 360, 750, 755. The 700/720 memory IS compatible with 360, 750, 755.

FEATURES OF 500

Most powerful sub-notebook with 486SLC2
Lightweight 3.8 pounds
Hibernation mode saves memory to the hard drive and shuts system off
External VGA is SVGA (to 800 x 600)
Std external floppy (9 oz) plugs into back
Personalized nameplate in molded indentation
Coupon book with $4,000 in savings
Self charging battery with **integrated wall plug** and **no memory effect** (081, 171)

ThinkPad 500 models 081 and 171 withdrawn due to problems with the sealed lead acid battery and replaced by models 08N and 17N with a nickel hydride battery

FEATURES OF 300

Upgradeable to TFT active color; 8.4"
Ethernet on planar for 10baseT,10base2
Upgradeable to 120 MB (80 MB version)
External VGA is SVGA (to 1024 x 768)
2 level password security
Hot key setup in any application
Standby mode and rest mode
Rest mode lasts up to 2 weeks

FEATURES OF 700/700C and 720/720C

3 year international warranty
700/720 mono upgradeable to TFT color
700/700C upgradeable to 486SLC2 50/25
Upgradeable to 120, 160, 240, or 340 MB
Removable hard disk
Pressure activated TrackPoint II
Optional battery w/ power status indicators
Quick Charger holds 2 batt; discharge button
Coupon book with $4,000 in savings

FEATURES OF ALL PRODUCTS

Suspend/resume mode; battery life indicator
Non-disruptive battery exchange
Simultaneous LCD and external CRT
US EPA Energy Star compliant
International warranty

IBM or dealer warranty/service
30 day money back guarantee
24 hour / 7 day fax support
24 hour / 7 day bulletin board support
24 hour / 7 day telephone support at 1-800-772-2227

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight).
STN = Super twisted nematic; ◩ = Upgradeable; ❍ = Removable; ⋊ = Withdrawn

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(1THINKW) Compiled by Roger Dodson, IBM. May 1994

IBM ThinkPad 310 (EMEA) - withdrawn

IBM® ThinkPad®:	310 11.3" Dual Scan SVGA color	310 11.3" TFT SVGA color	310D 11.3" Dual Scan SVGA color / 10 x CD-ROM
Processor type	**Pentium® 133/66 MHz** (P54CSLM) / 64 bit to transfers to L2 cache and memory		
Processor upgrade	None		
L2 cache	**256 KB** / write-back / direct mapped / 7 ns / sychronous pipelined burst		
External FDD port	External FDD port (works with standard external diskette on CD-ROM-based model; or use if upgrade to CD-ROM)		
Diskette drive	Internal 3.5" 1.44 MB (on left side)		External 3.5" 1.44 MB (connect to rear)
CD-ROM drive	**None** (upgrade available)	**None** (upgrade available)	**10 x CD-ROM** / bootable(left side) / CAV
Code name	LaCrosse	LaCrosse	LaCrosse
Price			
Type - model	**2600-100**	**2600-300**	**2600-200**
Preload (see side)	**Windows 95 OSR2**		
Avail / withdrawn date	June 1997 / January 1998		
Disk - size / ms	**1.08GB** / 13ms read; 14ms write / PIO Mode 4		
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk		
Display - size and type	**11.3" Dual Scan SVGA color**	**11.3" TFT SVGA color**	**11.3" Dual Scan SVGA color**
Display - techology	11.3" SVGA color / 640x480 or 800x600 256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio		11.3" SVGA color / 640x480 or 800x600 / 65,536 sim colors Black Matrix TFT - active matrix / 100 to 1 contrast ratio
Graphics - controller	C&T™ 65550 HiQV32™ / 64 bit SVGA accelerator / 1 MB EDO DRAM / 70 ns		
Graph - arch/data path	PCI 2.1 / interpolation / color space conversion		
Gaphics - features	Simultaneous LCD and CRT / 180 degree tilt / Zoomed Video support		
Graphics - external	External SVGA to 1024x768 with 256 colors		
Memory - std / max	**16MB** / 64MB / one 16MB SO-DIMM is installed in one of two sockets		
Memory - features	60 ns / non-parity / 3.3 volt / EDO / memory installed from bottom of system		
Memory - upgrade	1 socket available for two JEDEC 144 pin EDO SO-DIMM of 8, 16, or 32MB		
Keyboard / # of keys	Full size alp/num / 85 keys (9 Fn key functions)		
Keyboard slope	Large palm rest / keyboard remains flat (no sloop) / no liftup keyboard		
Pointing device	TrackPoint III™ / no drag lock keys		
Palm rest	Integrated palm rest / external keyboard support (no optional cable)		
Dimensions	11.7 x 8.9 x 1.9" (198 cubic inches)		
Weight	6.6 pounds (3.0 kg)	6.6 pounds (3.0 kg)	7.0 lbs (3.2 kg)
Battery - type	NiMH / non-intelligent / battery unique to 310 / insert from right side		
Battery - life	2.5 hours		
Charge time - on / off	3.5 to 10 hrs / 2.8 hrs / no non-disruptive battery exchange		
Architecture	ISA (audio, diskette, serial, parallel) / ALI® Aladdin III M1521/M1523 chipset PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA) NS PC87336VJG (diskette, serial, parallel) / TI PCI1131 CardBus (PCI)		
Docking Station	None		
Port replicator	None		
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / PCMCIA 2.1 compatible / PC Card Standard 95 **CardBus 32-bit PCI / Zoomed Video support in lower slot**		
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	Universal AC Adapter 3 prong (45 watts) with barrel connector (slim) / APM-aware BIOS / APM 1.2 / Selectable boot / Acer® BIOS		
Video in/out	None		
MPEG decoder	None		
Data/fax modem	None		
Audio support	**16-bit audio chip / 18 voice MIDI FM synthesis / Yamaha YMF715** Internal stereo speakers / .5 watt / Fn key volume control		
Audio jacks	Input jack (3.5 mm) / stereo output jack (3.5 mm) / stereo mic jack (3.5 mm)		
Telephone	None		
Infrared ports	None		
Security	Power-on password / Setup password (for Notebook Manager and BIOS Utility)/ Diskette and disk write protect and disable / Locking device keyhole on back (Kensington™ cable lock)		
Preinstalled software	Windows 95 with applications (listed on right)		
Warranty	**1 year** - carry-in		

WINDOWS 95 PRELOAD

- Microsoft Windows 95 OSR2 (FAT16)
- Notebook Manager
- PhoenixCard Manager
- (no diskette factory)

1. IBM Anti-Virus
2. IntelliQuest Registration Mailer
3. ThinkPad Customization Icon

- Lotus SmartSuite CD-ROM
- Recovery CD-ROM with boot diskette
- Windows 95 CD-ROM (no installation)

Disk is not removable, but it can be upgraded via a dealer or service center (not customer installable).

System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.

BIOS Utility is entered by holding F2 while the ThinkPad logo is displayed after power on.

Fn + F1 = Hot key help
Fn + F2 = Brightness/contrast
Fn + arrows = Adjust brightness/contrast
Fn + F3 = LCD/CRT/Simultaneous
Fn + F4 = Fuel gauge
Fn + F5 = Audio volume
Fn + arrows = Adjust volume
Fn + F6 = Power mgmt and system info
Fn + F7 = Standby
Fn + F8 = Hibernation
Fn + Esc = Close Hot key icon

Compatible in ThinkPad 310 family:

- 2.1GB HDD 13/14 ms (user upgradeable)	11J8643
- NiMH Battery	11J8639
- AC Adapter, 3 prong w/o power cord	11J8699
- AC Adapter, 3 prong with US power cord	11J8702
- 8MB SO DIMM 3.3v NP EDO 64-bit, gold	11J8635
- 16MB SO DIMM 3.3v NP EDO 64-bit, gold	11J8636
- 32MB SO DIMM 3.3v NP EDO 64-bit, gold	11J8637
- 10 x CD-ROM w/ external FDD/cable (dealer installable only)	11J8676
- PCMCIA 28.8Kbps International	42H4319

FEATURES OF 310 MODELS

Plug and Play 1.0a
Standby and hibernation modes
Color LED indicator
US EPA Energy Star compliant
Personalized nameplate indention
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service

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IBM ThinkPad® 310E and 310ED (EMEA) - withdrawn

IBM® ThinkPad®:	310E 12.1" Dual Scan SVGA color	310E 11.3" TFT SVGA color	310ED 12.1" Dual Scan SVGA color / 10X CD-ROM
Processor type	**Pentium® MMX™ 133/66MHz**[1]	**Pentium MMX 150/60MHz**	**Pentium MMX 133/66MHz**
Processor upgrade	None		
Processor features	MMX technology / P55CLM / 64-bit to transfers to L2 cache and memory		
L2 cache	**256KB** / write-back / direct mapped / 7ns / sychronous pipelined burst		
External FDD port	External FDD port (works with standard external diskette on CD-ROM-based model; or use if upgrade to CD-ROM)		
Diskette drive	Internal 3.5" 1.44MB (on left side)		External 3.5" 1.44MB (connect to rear)
CD-ROM drive	**None** (upgrade available)		**10X**[5] **CD-ROM** / bootable (left side) / CAV
Code name	LaCrosse-2		LaCrosse-2
Price			
Type - model	**2600-400**	**2600-600**	**2600-500**
Preload (see side)	**Windows 95 OSR2**		
Avail / withdrawn date	November 1997 / July 1998		
Disk - size / ms	**1.6GB**[4] / 13ms read; 14ms write / PIO Mode 4 / SMART		
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk		
Display - size and type	**12.1" Dual Scan SVGA color**	**11.3" TFT SVGA color**	**12.1" Dual Scan SVGA color**
Display - techology	12.1" SVGA color / 640 x 480 or 800 x 600 256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio		11.3" SVGA color / 640 x 480 or 800 x 600 / 65,536 sim colors Black Matrix TFT - active matrix / 100 to 1 contrast ratio
Graphics - controller	C&T™ 65550 HiQV32™ / 64-bit SVGA accelerator / 1MB EDO DRAM / 70ns		
Graph - arch/data path	PCI 2.1 / interpolation / color space conversion		
Gaphics - features	Simultaneous LCD and CRT / 180 degree tilt / Zoomed Video support		
Graphics - external	External SVGA to 1024x768 with 256 colors		
Memory - std / max	**16MB** / 64MB / one 16MB SO-DIMM is installed in one of two sockets		
Memory - features	60ns / non-parity / 3.3 volt / EDO / memory installed from bottom of system		
Memory - upgrade	1 socket available for two JEDEC 144 pin EDO SO-DIMM of 8, 16, or 32MB		
Keyboard / # of keys	Full size alp/num / 85 keys (9 Fn key functions)		
Keyboard slope	Large palm rest / keyboard remains flat (no sloop) / no liftup keyboard		
Pointing device	TrackPoint® III / no drag lock keys		
Palm rest	Integrated palm rest / external keyboard support (no optional cable)		
Dimensions	11.7 x 8.9 x 2.0" (208 cubic inches) / 298 mm x 227 mm x 49 mm		
Weight[2]	6.6 pounds (3.0 kg)	6.6 pounds (3.0 kg)	7.1 lbs (3.2 kg)
Battery - life	3.0 hours	3.5 hours	3.0 hours
Charge time - on / off	3.5 to 10 hrs / 2.0 hrs / no non-disruptive battery exchange		
Battery - type	NiMH / non-intelligent / battery unique to 310 / insert from right side		
Architecture	ISA (audio, diskette, serial, parallel) / ALI® Aladdin III M1521/M1523 chipset PCI 2.1/32-bit/33MHz (EIDE, graphics, PCMCIA) NS PC87336VJG (diskette, serial, parallel) / TI PCI1131 CardBus (PCI)		
Docking Station	None		
Port replicator	None		
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / PCMCIA 2.1 compatible / PC Card Standard 95 **CardBus 32-bit PCI / Zoomed Video support in lower slot**		
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	Universal AC Adapter 3 prong (45 watts) with barrel connector (slim) / APM-aware BIOS / APM 1.2 / Selectable boot / Acer® BIOS		
Video in/out	None		
MPEG decoder	None		
Data/fax modem	None		
Audio support	**16-bit audio chip / 18 voice MIDI FM synthesis / Yamaha YMF715** Internal stereo speakers / .5 watt / Fn key volume control		
Audio jacks	Input jack (3.5 mm) / stereo output jack (3.5 mm) / stereo mic jack (3.5 mm)		
Telephone	None		
Infrared ports	None		
Security	Power-on password / Setup password (for Notebook Manager and BIOS Utility)/ diskette and disk write protect and disable / security keyhole / electronic personalization		
Preinstalled software	Microsoft® Windows® 95 with applications (listed on right)		
Limited warranty[11]	**1 year** - carry-in		

WINDOWS 95 PRELOAD[16]

- Microsoft Windows 95 OSR2 (FAT16)
- Notebook Manager
- (no diskette factory)

1. IBM Anti-Virus
2. IntelliQuest Registration Mailer
3. ThinkPad Customization Icon

CD-ROMs included in shipping carton:

- Application CD-ROM (includes W95/W31/DOS device drivers, preloaded applications)
- Windows 95 CD-ROM (no installation; includes Setup Boot Diskette)

System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.

No suspend mode; has standby and hibernation mode

BIOS Utility is entered by holding F2 while the ThinkPad logo is displayed after power on.

Fn + F1 = Hot key help
Fn + F2 = Brightness/contrast
Fn + arrows = Adjust brightness/contrast
Fn + F3 = LCD/CRT/Simultaneous
Fn + F4 = Fuel gauge
Fn + F5 = Audio volume
Fn + arrows = Adjust volume
Fn + F6 = Power mgmt and system info
Fn + F7 = Standby
Fn + F8 = Hibernation
Fn + Esc = Close Hot key icon

OPTIONS

- 2.1GB disk, 13/14ms (user upgradeable)	11J8643
- 3.2GB disk, 13/14ms (user upgradeable)	05K8864
- NiMH Battery	11J8639
- AC Adapter, 3 prong without power cord	11J8699
- 16MB SO DIMM 3.3v NP EDO 64-bit, gold	11J8636
- 32MB SO DIMM 3.3v NP EDO 64-bit, gold	11J8637
- 10X CD-ROM w/ external FDD/cable (dealer installable only)	11J8676
- 20X-8X Portable CD-ROM	1969010
- 20X-8X Portable Stereo CD-ROM	1969011
- PCMCIA 33.6Kbps International Data/Fax	42H4319
- PCMCIA 33.6Kbps Modem w/ XJACK	55H6759

FEATURES

Plug and Play 1.0a
Standby and hibernation modes
Color LED indicator
ENERGY STAR compliant
Personalized nameplate indention
International Warranty Service[14]
IBM SystemXtra™
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support
IBM and dealer warranty/service

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IBM ThinkPad® 310E and 310ED (EMEA) - Spring 1998 - withdrawn

IBM® ThinkPad®:	310E 12.1" Dual Scan SVGA color	310E 12.1" TFT SVGA color	310ED 12.1" Dual Scan SVGA color / CD-ROM
Processor type	**Pentium® MMX™ 166/66MHz**[1]		
Processor upgrade	None		
Processor features	MMX technology / P55CLM / 64-bit to transfers to L2 cache and memory		
L2 cache	**256KB** / write-back / direct mapped / 7ns / sychronous pipelined burst		
External FDD port	External FDD port (works with standard external diskette on CD-ROM-based model; or use if upgrade to CD-ROM)		
Diskette drive	Internal 3.5" 1.44MB (on left side)		External 3.5" 1.44MB (connect to rear)
CD-ROM drive	**None** (dealer upgrade available)		**20X-8X**[5] **x CD-ROM** / bootable (left side) / CAV
Price			
Type - model	**2600-A00**	**2600-C00**	**2600-B00**
Preload (see side)	**Windows 95 OSR2**		
Avail / withdrawn date	March 1998 / September 1998		
Disk - size / ms	**2.1GB**[4] / 13ms read; 14ms write / PIO Mode 4 / SMART		
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk		
Display - size and type	**12.1" Dual Scan SVGA color**	**12.1" TFT SVGA color**	**12.1" Dual Scan SVGA color**
Display - techology	12.1" SVGA color / 640 x 480 or 800 x 600 256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio		12.1" SVGA color / 640 x 480 or 800 x 600 / 65,536 sim colors Black Matrix TFT - active matrix / 100 to 1 contrast ratio
Graphics - controller	C&T™ 65550 HiQV32™ / 64-bit SVGA accelerator		
Graphics - memory	1MB EDO DRAM / 70ns		
Graph - arch/data path	PCI 2.1 / interpolation / color space conversion		
Gaphics - features	Simultaneous LCD and CRT / 180 degree tilt / Zoomed Video support		
Graphics - external	External SVGA to 1024 x 768 with 256 colors		
Memory - std / max	**16MB** / 64MB		**32MB** / 64MB
Memory - implement	One 16MB SO-DIMM is installed in one of two sockets		
Memory - features	60ns / non-parity / 3.3 volt / EDO / memory installed from bottom of system		
Memory - upgrade	1 socket available for two JEDEC 144 pin EDO SO-DIMM of 16 or 32MB		
Keyboard / # of keys	Full size alp/num / 85 keys (9 Fn key functions)		
Keyboard slope	Large palm rest / keyboard remains flat (no sloop) / no liftup keyboard		
Pointing device	TrackPoint® III / no drag lock keys		
Palm rest	Integrated palm rest / external keyboard support (no optional cable)		
Dimensions	11.7 x 8.9 x 2.0" (208 cubic inches) / 298 mm x 227 mm x 50 mm		
Weight[2]	6.6 pounds (3.0 kg)	6.6 pounds (3.0 kg)	6.9 lbs (3.1 kg)
Battery - life	3.0 hours	2.8 hours	3.0 hours
Charge time - on / off	3.5 to 10 hrs / 2.0 hrs / no non-disruptive battery exchange		
Battery - type	NiMH / non-intelligent / battery unique to 310 / insert from right side		
Architecture	ISA (audio, diskette, serial, parallel) / ALI® Aladdin III M1521/M1523 chipset PCI 2.1 / 32-bit / 33 Mhz (EIDE, graphics, PCMCIA) NS PC87336VJG (diskette, serial, parallel) / TI PCI1131 CardBus (PCI)		
Docking Station	None		
Port replicator	None		
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / PCMCIA 2.1 compatible / PC Card Standard 95 **CardBus 32-bit PCI / Zoomed Video support in lower slot**		
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	Universal AC Adapter 3 prong (45 watts) with barrel connector (slim) / APM-aware BIOS / APM 1.2 / Selectable boot / Acer® BIOS		
Video in/out	None		
MPEG decoder	None		
Data/fax modem	None		
Audio support	**16-bit audio chip / 18 voice MIDI FM synthesis / Yamaha YMF715** Internal stereo speakers / .5 watt / Fn key volume control		
Audio jacks	Input jack (3.5 mm) / stereo output jack (3.5 mm) / stereo mic jack (3.5 mm)		
Telephone	None		
Infrared ports	None		
Security	Power-on password / Setup password (for Notebook Manager and BIOS Utility)/ diskette and disk write protect and disable / security keyhole / electronic personalization		
Preinstalled software	Microsoft® Windows® 95 with applications (listed on right)		
Limited warranty[11]	**1 year** - carry-in		

WINDOWS 95 PRELOAD[16]

- Microsoft Windows 95 OSR2 (FAT16)
- Internet Explorer 4.0
- Notebook Manager
- (no diskette factory)

1. IBM Anti-Virus
2. IntelliQuest Registration Mailer
3. ThinkPad Customization Icon

CD-ROMs included in shipping carton:

- Application CD-ROM (includes W95/W31/DOS device drivers, preloaded applications)
- Windows 95 CD-ROM (no installation; includes Setup Boot Diskette)

System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.

No suspend mode; has standby and hibernation mode

BIOS Utility is entered by holding F2 while the ThinkPad logo is displayed after power on.

Fn + F1 = Hot key help
Fn + F2 = Brightness/contrast
Fn + arrows = Adjust brightness/contrast
Fn + F3 = LCD/CRT/Simultaneous
Fn + F4 = Fuel gauge
Fn + F5 = Audio volume
Fn + arrows = Adjust volume
Fn + F6 = Power mgmt and system info
Fn + F7 = Standby
Fn + F8 = Hibernation
Fn + Esc = Close Hot key icon

OPTIONS

- 2.1GB disk 13/14ms (user upgradeable)	11J8643
- 3.2GB disk 13/14ms (user upgradeable)	05K8864
- NiMH Battery	11J8639
- AC Adapter, 3 prong without power cord	11J8699
- 16MB SO DIMM 3.3v NP EDO 64-bit, gold	11J8636
- 32MB SO DIMM 3.3v NP EDO 64-bit, gold	11J8637
- 10X CD-ROM w/ external FDD/cable (dealer installable only)	11J8676
- 20X-8X CD-ROM w/ external FDD/cable (dealer installable only)	05K8867
- 20X-8X Portable CD-ROM	1969010
- 20X-8XPortable Stereo CD-ROM	1969011
- PCMCIA 33.6Kbps International Data/Fax	42H4319
- PCMCIA 33.6Kbps Modem w/ XJACK	55H6759

FEATURES

Plug and Play 1.0a
Standby and hibernation modes
Color LED indicator
ENERGY STAR compliant
Personalized nameplate indention
International Warranty Service[14]
IBM SystemXtra™
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support
IBM and dealer warranty/service

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IBM ThinkPad® 310ED (Retail models) - withdrawn

IBM® ThinkPad®:	⋊ 310ED	⋊ 310ED
Processor type	**Pentium® MMX™ 133/66MHz**[1]	**Pentium MMX 166/66MHz**
Processor upgrade	None	
Processor features	MMX technology / P55CLM / 64-bit to transfers to L2 cache and memory	
L2 cache	**256KB** / write-back / direct mapped / 7ns / sychronous pipelined burst	
External FDD port	External FDD port (works with standard external diskette on CD-ROM-based model; or use if upgrade to CD-ROM)	
Diskette drive	External 3.5" 1.44MB (connect to rear)	
CD-ROM drive	**10x**[5] **CD-ROM** / bootable (left side) / CAV	**20X-8X**[5] **CD-ROM** / bootable (left side) / CAV
Price		
Type - model	**2600-50U**	**2600-B0U**
UPC code	**087944375975**	**087944395997**
Preload (see side)	**Windows 95 OSR2**	Windows 95 OSR2.5
Avail / withdrawn date	November 1997 / May 1998	March 1998 / September 1998
Disk - size / ms	**1.6GB**[4] / 13ms/14ms / PIO 4 / SMART	**2.1GB** / 13ms read; 14ms write / PIO Mode 4 / SMART
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk	
Display - size and type	**12.1" Dual Scan SVGA color**	
Display - techology	12.1" SVGA color / 640 x 480 or 800 x 600 256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio	
Graphics - controller	C&T™ 65550 HiQV32™ / 64-bit SVGA accelerator / 1MB EDO DRAM / 70ns	
Graph - arch/data path	PCI 2.1 / interpolation / color space conversion	
Gaphics - features	Simultaneous LCD and CRT / 180 degree tilt / Zoomed Video support	
Graphics - external	External SVGA to 1024 x 768 with 256 colors	
Memory - std / max	**16MB** / 64MB / one SO-DIMM used	**32MB** / 64MB / one SO-DIMM used
Memory - features	60ns / non-parity / 3.3 volt / EDO / memory installed from bottom of system	
Memory - upgrade	1 socket available for JEDEC 144 pin EDO SO-DIMM of 8, 16, or 32MB	
Keyboard / # of keys	Full size alp/num / 85 keys (9 Fn key functions)	
Keyboard slope	Large palm rest / keyboard remains flat (no sloop) / no liftup keyboard	
Pointing device	TrackPoint® III / no drag lock keys	
Palm rest	Integrated palm rest / external keyboard support (no optional cable)	
Dimensions	11.7 x 8.9 x 2.0" (208 cubic inches) / 298 mm x 227 mm x 50 mm	
Weight[2]	7.1 lbs (3.2 kg)	6.9 lbs (3.1 kg)
Battery - life	3.0 hours	
Charge time - on / off	3.5 to 10 hrs / 2.0 hrs / no non-disruptive battery exchange	
Battery - type	NiMH / non-intelligent / battery unique to 310 / insert from right side	
Architecture	ISA (audio, diskette, serial, parallel) / ALI® Aladdin III M1521/M1523 chipset PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA) NS PC87336VJG (diskette, serial, parallel) / TI PCI1131 CardBus (PCI)	
Docking Station	None	
Port replicator	None	
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / PCMCIA 2.1 compatible / PC Card Standard 95 **CardBus 32-bit PCI / Zoomed Video support in lower slot**	
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	
Other features	Universal AC Adapter 3 prong (45 watts) with barrel connector (slim) / APM-aware BIOS / APM 1.2 / Selectable boot / Acer® BIOS	
Video in/out	None	
Data/fax modem	None	**56Kbps PC Card modem** ActionTec® DataLink / K56flex™
Audio support	**16-bit audio chip / 18 voice MIDI FM synthesis / Yamaha YMF715** Internal stereo speakers / .5 watt / Fn key volume control	
Audio jacks	Input jack (3.5 mm) / stereo output jack (3.5 mm) / stereo mic jack (3.5 mm)	
Telephone	None	
Infrared ports	None	
Security	Power-on password / Setup password (for Notebook Manager and BIOS Utility)/ diskette and disk write protect and disable / security keyhole / electronic personalization	
Preinstalled software	Microsoft® Windows® 95 with applications (listed on right)	
Limited warranty[11]	**1 year** - carry-in	

WINDOWS 95 PRELOAD[16]

- Microsoft Windows 95 OSR2 (FAT16)
  - Internet Explorer 4.0
  - AOL, AT&T WorldNet, CompuServ
  - Media Player
    - ActiveMovie (MPEG-1, AVI)
    - Video for Windows
    - CD Audio Player
    - MIDI Sequencer

1. Lotus® SmartSuite 97
   - WordPro Word Processor
   - 1-2-3 Spreadsheet
   - Freelance Graphics
   - Approach Database
   - Organizer Scheduler
   - ScreenCam
2. IBM Anti-Virus
3. PointCast (with ThinkPad Channel)
4. ThinkPad Customization Icon
5. Notebook Manager
6. Ergonomics
7. IntelliQuest Registration Mailer
8. Password Protected Marketing Demo
9. PhoenixCard Manager

- (no diskette factory)

CD-ROMs included in shipping carton:

- Application CD-ROM (includes Lotus SmartSuite 97, W95/W31/DOS device drivers, preloaded applications)
- Windows 95 CD-ROM (no installation; includes Setup Boot Diskette)

System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.

No suspend mode; has standby and hibernation mode

BIOS Utility is entered by holding F2 while the ThinkPad logo is displayed after power on.

Fn + F1 = Hot key help
Fn + F2 = Brightness/contrast
Fn + arrows = Adjust brightness/contrast
Fn + F3 = LCD/CRT/Simultaneous
Fn + F4 = Fuel gauge
Fn + F5 = Audio volume
Fn + arrows = Adjust volume
Fn + F6 = Power mgmt and system info
Fn + F7 = Standby
Fn + F8 = Hibernation
Fn + Esc = Close Hot key icon

OPTIONS

- 2.1GB disk 13/14ms (user upgradeable)	11J8643
- 3.2GB disk 12ms (user upgradeable)	05K8864
- NiMH Battery	11J8639
- AC Adapter, 3 prong, US pwr cord, 45 wa	11J8702
- 16MB SO DIMM 3.3v NP EDO 64-bit, gold	11J8636
- 32MB SO DIMM 3.3v NP EDO 64-bit, gold	11J8637
- PCMCIA 33.6Kbps International Data/Fax	42H4319
- PCMCIA 33.6Kbps Modem w/ XJACK	55H6759
- 56K PC Card Modem Kit	04K0052

FEATURES

Plug and Play 1.0a
Standby and hibernation modes
Color LED indicator
ENERGY STAR compliant
Personalized nameplate indention
Year 2000 ready
International Warranty Service[14]
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support
IBM and dealer warranty/service

⋊ = Withdrawn from marketing

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IBM ThinkPad 345 (non-US) - withdrawn

IBM® ThinkPad®:	⋋ 345CS dual scan color		⋋ 345C TFT color	
Processor type	**IntelDX4**			
Processor speed	**75/25 MHz** / 3.3 volt			
Memory cache	16 KB internal (no L2 cache)			
Coprocessor socket	Integrated in DX4			
Processor / L2 upgrade	None			
Diskette drive	3.5" 1.44 MB (not removable)			
Removable CD-ROM	None			
Price	$	$	$	$
Type - model	2610-EYF	2610-EYG	2610-FYF	2610-FYG
IDE disk - size	**360 MB**	**540 MB**	**360 MB**	**540 MB**
Hard drive - speed	13 ms	13 ms	13 ms	13 ms
Avail / withdrawn date	Sep 1995 / Jan 1996		Sep 1995 / Apr 1996	
Display - type	**VGA color** / 640 x 480		**VGA color** / 640 x 480	
Display - colors	256 simultaneous colors		256 simultaneous colors	
Display - techology	**Dual Scan** - passive matrix		**Black Matrix TFT - active matrix**	
Display - diagonal size	**10.4 inch**		**10.4 inch**	
Display - contrast ratio	20 to 1		100 to 1	
180 degree display tilt	Yes		Yes	
Graphics - controller	WD90C24A Rev C with 1 MB DRAM			
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 with 256 colors (up to 60 Hz)			
Graph - arch/data path	VL-Bus local bus / 32 bit / Simultaneous LCD and CRT			
Memory - std / max	4 MB / 20 MB 70 ns / non-parity / 5 volt		Memory upgraded via	
Mem - sockets empty	1 socket		1 open socket for IC DRAM	
Mem - options available	4, 8, 16 MB IC DRAM		memory card for 20 MB max	
Keyboard / # of keys	Full size alp/num / 85 keys / quiet keyboard			
Fn key functions	7 (in any appl)			
Keyboard slope	None			
Mouse/pointing	**TrackPoint III**™ (no drag lock)			
Ext keyboard support	Yes (with optional cable)			
Dimensions	11.7 x 8.3 x 1.9"		11.7 x 8.3 x 2.0"	
Cubic inches	184 inches		194 inches	
Color	Black		Black	
Weight (with battery)	5.2 pounds		5.5 pounds	
Battery - type	Nickel hydride (NiMH) / non-intelligent		Fn key functions:	
Batt - life (per battery)	2.5 to 5 hours		- Fuel guage (battery)	
Charge time - on / off	2 hrs / 1.5 hr		- Standby mode	
Architecture	AT bus (ISA)		- Suspend mode	
Docking Station	None		- Audio volume	
Port replicator	None		- LCD or CRT or both	
PCMCIA™ 2.1 slots	1 Type I or 1 Type II or 1 Type III		- Power management mode	
Serial / parallel ports	Yes (one 9 pin) 16550A / Yes (EPP)		- Hibernation mode	
Other features	APM-aware BIOS / Selectable boot AC adapter, 35 watts, worldwide, 3 pin, not wallmount			
Audio support	Audio beep only			
Security	Power-on password Locking device keyhole (Kensington™ MicroSaver™ cablelock)			
Preinstalled software	IBM DOS 7.0, Windows™ 3.11, and all appls listed to right:			
Warranty	1 year - ThinkPad EasyServ only			
Warranty options	None			

ThinkPad 345 is a fast, lightweight, full function, TFT or dual scan color notebook at a very attractive price point

- **Entry priced ThinkPad**
- **Large color 10.4" dual scan or TFT display**
- **Fast IntelDX4 75/25 MHz**
- **Lightweight (5.2 or 5.5 pounds)**
- **TrackPoint III**

PREINSTALLED APPLICATIONS

- IBM PC DOS 7.0
- Windows 3.11
- IBM PC Card Director for PCMCIA
- IBM ThinkPad Demo
- ThinkPad features; Diskette Factory

1. Lotus® cc:Mail, for the IBM Global® network,
2. Lotus Organizer 1.12
3. Lotus ScreenCam 1.0,
4. Triton CoSession™ Host,
5. PRODIGY®,
6. SofNet FaxWorks™ 3.0
7. AlphaNet™ FollowFax™
8. Sedona REPRINT™
9. Video for Windows™ 1.1 Runtime

The ThinkPad 345 family has the same physical design as the ThinkPad 340

PC Card Director™ (EasyPlaying) is preinstalled and on the utility diskette for DOS, Windows and OS/2. It provides:

① automatic config of many PCMCIA cards;
② visual/audible confirmation of insertion/ removal of cards;
③ ability to automatically launch an appl (e.g. async emulation) when card inserted;
④ status and info on PCMCIA cards installed.

Easy-Setup is entered by holding F1 when turning on. Easy-Setup, BIOS, and diagnostics are located in flash memory.

Hard disk and diskette drive are not removable. Keyboard does not lift up.

Options for 345:

- 4 MB IC DRAM 70 ns Parity	92G7232
- 8 MB IC DRAM 70 ns Parity	92G7233
-16 MB IC DRAM 70 ns Parity	92G7234
- 4 MB IC DRAM 70 ns non-Parity	92G7236
- 8 MB IC DRAM 70 ns non-Parity	92G7237
-16 MB IC DRAM 70 ns non-Parity	92G7424
- NiMH Battery Pack (Worldwide)	85G7637
- NiMH Battery Pack (Japan)	95G7638
- NiMH Battery Pack (EMEA)	85G7605
- 35 watt AC Adapter (Worldwide)	85G6680
- 35 watt AC Adapter (Japan)	85G6682
- 35 watt AC Adapter (EMEA)	85G6683

IC DRAM parity memory from the above options will work but without parity

FEATURES OF 345 FAMILY

3 power saving modes: standby, suspend, and hibernation
Personalized nameplate in molded indentation
Battery life indicator
Non-disruptive battery exchange
US EPA Energy Star compliant

HELPWARE

International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, and electronic support
IBM or dealer warranty/service
Online Housecall (remote diagnostics)
30 day money back guarantee

ThinkPad EasyServ™: customer calls 1-800-565-3344 in Canada, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).
❑ = Upgradeable; ❍ = Removable; ⋋ = Withdrawn from marketing

All trademarks are the property of their respective owners
No warranties are expressed or implied in this summary
(345) Compiled by Roger Dodson, IBM. May 1996

IBM ThinkPad 350, 350C, 500, 510Cs - withdrawn

IBM® ThinkPad®:	⋊ 350 monochrome		⋊ 350C passive color		⋊ 500 sub-notebook	⋊ 510Cs color sub-notebook
Processor type	*All:* **80486 SL** (no math co)				**80486 SLC2**	**Blue Lightning 486BL2-50**
Processor speed	*All:* **25 MHz**				**50/25 MHz**	**50/25 MHz**
Memory cache	*All:* 8 KB internal (no L2)				16 KB internal (no L2)	16 KB internal (no L2 cache)
Coprocessor socket	*All:* No				No	No
Diskette drive	*All:* 3.5" 1.44 MB				**External** 3.5" 1.44 MB	**External** 3.5" 1.44 MB (9 oz.)
Price (retail USD)	$ 1,499	$ 1,899	$ 1,599 ↘	$ 1,999 ↘	$ 799 ↘	$ 999 ↘	$ 1,799 ↘
Type - model	2618-J0A	2618-L0A	2618-N0A	2618-P0A	2603-08N	2603-17N	2604-C2U
Hard drive - size	**125 MB**	**250 MB**	**125 MB**	**250 MB**	**85 MB**	**170 MB**	**200 MB**
Hard drive - speed	15 ms	12 ms	15 ms	12 ms	15 ms	15 ms	17 ms
Avail / withdrawal date	June 93 / withd Sep 94		June 93 / withd Sep 94		Dec 93 / withd Jan 95		June 94 / w May 95
Display - type	VGA mono		**VGA color**		VGA mono	**VGA color**
Display - grey scales	64 grey scales		256 colors 640 x 480		64 grey scales	256 colors 640 x 480
Display - techology	STN		STN - passive matrix		STN	STN - passive matrix
Display - light source	LCD - Backlit		LCD - Backlit		LCD - backlit	LCD - backlit
Display - size (diag)	9.5 inch		9.2 inch		7.24 inch	7.7 inch
Display - contrast ratio	18 to 1		13 to 1; Single scan		18 to 1	14 to 1; Single scan
180 degree display tilt	Yes (external SVGA)		Yes (external SVGA)		Yes (external SVGA)	Yes (external SVGA)
Graphics - controller	*All:* 65530 / External VGA is ISO capable (75Hz)				WD90C26	WD90C24A2 / 1 MB video mem
Graphics - vendor	*All:* Chips & Tecnologies, Inc.				Western Digital	Western Digital
Graphics - arch/data path	*All:* Local bus / 16 bit / Peripheral Interface				ISA 16 bit	VL-Bus / VESA 32 bit local bus
Memory - std / max	*All:* 4 / 20 MB 80 ns				4 / 12 MB 80 ns	4 / 20 MB 80 ns
Mem - sockets empty	*All:* 1 socket (non-parity)				1 socket (non-parity)	1 socket (non-parity)
Mem - options available	*All:* 4, 8, 16 MB SIMMs				4, 8 MB ICs (3.3 volt)	4, 8, 16 MB ICs (3.3 volt)
Keyboard / # of keys	*All:* Full size alp/num/ 85				90% size alp/num/ 81	90% size alp/num/ 81
Fn key functions	*All:* 2 (in any appl)				11 (in any appl)	15 (in any appl)
Keyboard slope	*All:* Yes (back panel)				No	No
Mouse/pointing	*All:* **TrackPoint II™**				**TrackPoint II**	**TrackPoint II**
Ext keyboard support	*All:* Yes (with opt cable)				No	Yes (on MultiPort)
Dimensions	11.7 x 8.3 x 1.9"		11.7 x 8.3 x 2.0"		10.1 x 7.2 x 1.6"	10.1 x 7.2 x 1.7"
Cubic inches	184 inches		194 inches		116 inches	124 inches
Carrying case	Many options		Many options		Many options	Many options
Color	Black		Black		Black	Black
Weight (with battery)	5.2 pounds		5.8 pounds		3.4 pounds / 3.7 (170M)	4.0 pounds
Battery - type	Nickel hydride (NiMH)		Nickel hydride (NiMH)		Nickel hydride (NiMH)	Nickel hydride (NiMH)
Batt - life (per battery)	2.7 to 9 hours		2 to 7.5 hours		3.5 to 9 hours	2.5 to 8 hours
Charge time - on / off	2 hrs / 1 hr		2 hrs / 1 hr		3 hrs / 1.5 hrs	2.5 hrs / 1.5 hrs
Architecture	*All:* AT bus (ISA)				AT bus (ISA)	AT bus (ISA)
Docking Station	*All:* No				No (withdrawn 500	No
Port replicator	*All:* No				No had sealed lead	Yes (MultiPort ships standard)
Modem/serial slot	*All:* Modem only				No acid battery)	No
PCMCIA 2.01 slots	*All:* **1 Type I or 1 Type II**				**1 Type I or 1 Type II**	**1 Type I or 1 Type II**
Visible LEDs - closed	*All:* Yes				Yes	Yes
Serial / parallel ports	*All:* Yes / Yes				Yes (cable) / Yes (EPP)	Yes (MultiPort) / Yes (EPP)
APM-aware BIOS	*All:* APM-aware BIOS				APM-aware BIOS	APM-aware BIOS
Other features	*All:* Wallmount AC adapter					Microsaver™ security connector
					Hibernation mode	Hibernation mode
	All: Personalized nameplate in indentation				Personalized nameplate	Personalized nameplate in indentation
	All: Coupon book with $4,000 in savings				Coupon book w/ sav	Personal greeting screen at startup
Preinstalled software	*All:* IBM DOS 5.02, PRODIGY®				IBM DOS 6.1,PRODIGY	IBM DOS 6.3, Windows 3.1,
					After July 1 only on	Demo, and 8 appls listed below
					17N: see below	
Warranty	*All:* 1 year - carry in or EasyServ (opt onsite)				1 year - carry in or EasyServ (opt onsite)	1 year - carry in or EasyServ (optional onsite for $40 a year)

Suspend/resume buttn above keyboard
Fn+F1= Configuration Utility
Fn+F2= Reverse video
Fn+F3= Contrast text

Fn+F2 = Fuelguage
Fn+F3 = Setup
Fn+F4 = Suspend
Fn+F5 = Speaker
Fn+F6 = Sysrequest
Fn+F7 = CRT/LCD
Fn+F8 = Rev video
Fn+F9 = Num Lock
Fn+F10= Scroll Lock
Fn+F11= Print Scrn
Fn+F12= Hibernation

Fn+Q = Inc brightness
Fn+A = Dec brightness
Fn+W= Inc contrast
Fn+S = Dec contrast

Enter Setup by CTRL+ALT+F3 from DOS prompt

FEATURES OF 500 and 510Cs

500: External cable has 2 connectors for serial port and external diskette drive

510: External cable has 1 connector for external diskette drive (serial port on MultiPort).

MultiPort: A port replicator with connectors for diskette drive, external display, mouse/ keyboard, and serial device (ships with 510Cs). Plugs into 160 pin connector on back.

3 power saving modes: doze, suspend, hibernation.

Batteries in 500 and 510Cs are NOT compatible

⋊ Withdrawn from marketing

SOFTWARE PREINSTALLED ON 500-17N (after July 1, 1994) and 510Cs

IBM DOS 6.3, Windows 3.1, Demo, and 8 appls:
① Lotus cc:Mail, ② Lotus Organizer 1.12, ③ Lotus ScreenCam 1.0, ④ Official Airline Guide Flight Disk 1.0, ⑤ Triton CoSession Host, ⑥ PRODIGY, ⑦ America Online, ⑧ SofNet FaxWorks 3.0

EasyPlaying (PC Card Director™) is preloaded and on the utility diskette for DOS, Windows and OS/2; it provides status and info on PCMCIA cards installed. In Windows and OS/2, it can register an appl for PCMCIA cards and execute them automatically. Auto Configurator and Memory Device Driver enables supported PCMCIA cards by sensing them automatically (so do not need to install their device drivers).

FEATURES OF ALL PRODUCTS

Suspend/resume mode; battery life indicator
Non-disruptive battery exchange
Simultaneous LCD and external CRT
US EPA Energy Star compliant
International travelers warranty
IBM or dealer warranty/service
30 day money back guarantee
24 hour / 7 day fax support
24 hour / 7 day bulletin board support
24 hour / 7 day telephone support at 1-800-772-2227

ThinkPad 500 memory (4, 8 MB IC 3.3 volt) is compatible with ThinkPad 510Cs.

ThinkPad 510Cs MultiPort is NOT compatible with ThinkPad 500.

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business days average turnaround). Overnight repair option in US available for $99.

↘ Price decrease effective July 13 (350C) and Aug 18 (510), 1994.

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No warranties are expressed or implied in this summary
(1THINK) Compiled by Roger Dodson, IBM. April 1995

IBM ThinkPad 355 - withdrawn

IBM® ThinkPad®:	355 monochrome	355Cs dual scan color		355C TFT color	
Processor type	*All:* **80486 SX** (no math coprocessor)				
Processor speed	*All:* **33MHz** 3.3 volt (SL Enhanced)				
Memory cache	*All:* 8KB internal (no L2 cache)				
Coprocessor socket	*All:* No				
Removable diskette	*All:* 3.5" 1.44MB ❍				
Price (retail USD)	$1,899	$2,599	$2,849	$3,399	$3,749
Type - model	2619-I15	2619-K20	2619-K25	2619-L50	2619-L55
Removable disk - size	**125MB** ◩	**170MB** ◩	**250MB** ◩	**125MB** ◩	**250MB** ◩
Hard drive - speed	15ms ❍	15ms ❍	14ms ❍	15ms ❍	14ms ❍
Available date	June 94	June 94	June 94	July 94	July 94
Display - type	VGA mono	**VGA color**		**VGA color**	
Display - grey scales	64 grey scales 640x480	256 colors 640 x 480		256 colors 640 x 480	
Display - techology	STN	STN - passive matrix		**TFT - active matrix**	
Display - light source	LCD - Backlit	LCD - Backlit		LCD - Backlit	
Display - size (diag)	9.5 inch	9.5 inch **Dual scan**		8.4 inch	
Display - contrast ratio	18 to 1	20 to 1		100 to 1	
180 degree display tilt	Yes	Yes		Yes	
Graphics - controller	*All:* WD90C24A2 with 1MB DRAM / Graphics WinMarks 4.0 = 3.7				
Graphics - vendor	*All:* Western Digital / External SVGA to 1024x768 with 256 colors				
Graph - arch/data path	*All:* VL-Bus / 32-bit VESA local bus / Simultaneous LCD and CRT				
Memory - std / max	*All:* 4 / 20MB 70ns				
Mem - sockets empty	*All:* 1 socket (non-parity)				
Mem - options available	*All:* 4, 8, 16MB ICs (5.0 volts)				
Keyboard / # of keys	*All:* Full size alp/num/ 85				
Fn key functions	*All:* 10 (in any appl)				
Keyboard slope	*All:* Yes (legs pop out)				
Mouse/pointing	*All:* **TrackPoint II**™				
Ext keyboard support	*All:* Yes (with optional cable)				
Dimensions	11.7 x 8.3 x 1.7"	11.7 x 8.3 x 2.0"		11.7 x 8.3 x 1.9"	
Cubic inches	165 inches	194 inches		185 inches	
Carrying case	Many options	Many options		Many options	
Color	Black	Black		Black	
Weight (with battery)	5.6 pounds	6.2 pounds		6.1 pounds	
Battery - type	Nickel hydride	Nickel hydride		Nickel hydride	
Batt - life (per battery)	4.6 to 10 hours	3 to 7 hours		3.5 to 7 hours	
Charge time - on / off	2 hrs / 1.5 hr	2 hrs / 1.5 hr		2 hrs / 1.5 hr	
Architecture	*All:* AT bus (ISA)				
Docking Station	*All:* No				
Port replicator	*All:* No				
Data/fax modem	*All:* 2400 data / 4800 receive fax / 9600 send fax				
PCMCIA 2.01 slots	*All:* **1 Type I or 1 Type II or 1 Type III**				
Serial / parallel ports	*All:* Yes (one 9 pin) / Yes				
Other features	*All:* APM-aware BIOS / Selectable boot				
	All: Wallmount AC adapter without powercord with retractable prongs, 30 watts				
	All: **Hibernation mode** saves memory to disk and shuts off system				
Security	*All:* Power-on password / Hard disk password / Hardware security loop / PCMCIA card lock / Optional Security Base				
Preinstalled software	*All:* MS DOS 6.21, Windows 3.1, Demo, and 8 applications: ① Works for Windows, ② ThinkPad Fitness, ③ ThinkPad Index, ④ Official Airline Guide Flight Disk® 1.0, ⑤ Triton CoSessions™ Host, ⑥ PRODIGY®, ⑦ America Online℠, ⑧ SofNet FaxWorks™ 3.0				
Warranty	*All:* 1 year - carry in to retailer or EasyServ (optional onsite for $40)				

ALL 355 MODELS

***Liftable (pop-up) keyboard* to access and remove:**

① **diskette drive**
② **disk**
③ **battery**
④ **memory**

Diskette drive can be removed ① to reduce weight, ② to insert cellular modem (CDPD), ③ (355C only) to insert TV Tuner (on screen TV/VCR playback), or ④ to add other third party options.

Fn + F2 = Fuel guage	Fn + F7 = Ext display/LCD	
Fn + F3 = Standby	Fn + F8 = Reverse video (mono)	
Fn + F4 = Suspend	Fn + F9 = Hi-intensity text (mono)	
Fn + F5 = Audio off/down	Fn + F11 = Power mgmt	
Fn + F6 = Audio on/up	Fn + F12 = Hibernation mode	

An intelligent battery (standard in ThinkPad 750 and 755) is optional. The ThinkPad 355 battery is lower cost, easy to use because no storage-switch control is required, and shows % of remaining power (compared to hours of remaining power).

The ThinkPad 355 family has the same physical design as the ThinkPad 360, 750, and 755.

EasyPlaying (PC Card Director™) is preinstalled and on the utility diskette for DOS, Windows and OS/2; it provides status and info on PCMCIA cards installed. In Windows and OS/2, it can register an appl for PCMCIA cards and execute them automatically. Auto Configurator and Memory Device Driver enables supported PCMCIA cards by sensing them automatically (so do not need to install their device drivers). This utility ships with ThinkPads 355, 360, 510Cs, and 755 family.

Easy-Setup is entered by holding F1 when turning on. Easy-Setup, BIOS, and diagnostics are located in Flash memory.

Compatible in all 355, 360, 750, and 755 family:
- Hard disks (170, 250, 340, 540, 810MB)
- 1.44MB diskette drive
- CDPD Mobile Communications Module
- Keyboard/mouse connector
- 355 battery does not work in ThinkPad 750/755, but 750/755 battery will work in 355
- Quick Charger
- AC Adapter

Memory from ThinkPad 350, 500, and 510Cs is NOT compatible in 355 (or 360).
IC Memory from ThinkPad 700, 720, 750, and 755 will work but without parity.

ThinkPad 750 and 755 options compatible ONLY in ThinkPad 355C:
- TV tuner

FEATURES

3 power saving modes: standby, suspend, and hibernation
Personalized nameplate in molded indentation
External VGA is ISO capable (75Hz)
Upgradeable disks: 170MB, 250MB, 340MB, 540MB, 810MB (all 2.5 inch)
Battery life indicator
Non-disruptive battery exchange
US EPA Energy Star compliant
IBM or retailer warranty/service
30 day money back guarantee
24 hour / 7 day fax support
24 hour / 7 day bulletin board support
24 hour / 7 day telephone support at 1-800-772-2227

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back within 2 business days (no shipping charges, most shipping is overnight). STN = Super twisted nematic; ◩ = Upgradeable; ❍ = Removable
All models withdrawn effective May 1995

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No warranties are expressed or implied in this summary
(355) Compiled by Roger Dodson, IBM. August 1998

IBM ThinkPad 360 - withdrawn

IBM® ThinkPad®:	⋊ 360 monochrome		⋊ 360Cs dual scan color		⋊ 360C TFT color		⋊ 360P color pen		⋊ Traveling Multimedia preconfigured system
Processor type	*All:* **80486 SX** (no math coprocessor)						The 360P supports **pen** based applications		A preconfigured, multimedia **360Cs;**
Processor speed	*All:* **33 MHz** 3.3 volt (SL Enhanced)								Available June 94;
Memory cache	*All:* 8 KB internal (no L2 cache)		*The removed diskette drive can be used externally via the optional 'FDD External Kit' (includes cable and enclosure; $135) to the Port Replicator Model I and II and Dock I.*						Withdrawn May 1995
Coprocessor socket	*All:* No								Part #2337290
Removable diskette	*All:* 3.5" 1.44 MB ❍								$ 5,299
Price (retail USD)	$ 1,899	$ 2,299	$ 2,349	$ 2,749	$ 2,299 ↘	$ 2,599 ↘	$ 2,899	$ 3,399	Included with the IBM Traveling Multimedia:
Type - model	2620-00D	2620-00F	2620-20D	2620-20F	2620-30D	2620-30F	2620-50D	2620-50F	Hardware:
Removable disk - size	**170 MB** ❑	**340 MB** ❑	**170 MB** ❑	**340 MB** ❑	**170 MB** ❑	**340 MB** ❑	**170 MB** ❑	**340 MB** ❑	- 360Cs (all features listed on left)
Hard drive - speed	15 ms ❍	14 ms ❍	15 ms ❍	14 ms ❍	15 ms ❍	14 ms ❍	15 ms ❍	14 ms ❍	- 16 bit Mwave® audio chip on adapter card
Available date	May 94 / withd May 95		May 94 / withd Dec 95		June 94 / withd Dec 95		June 94 / withd Dec 95		- Stereo in/out jacks
Display - type	VGA mono		**VGA color**		**VGA color**		**VGA color**		- 340 MB removable hard disk
Display - grey scales	64 grey scales 640x480		256 colors 640 x 480		256 colors 640 x 480		256 colors 640 x 480		- 8 MB memory (4 MB std + 4 MB IC DRAM)
Display - techology	STN		STN - passive matrix		**TFT - active matrix**		STN - passive matrix		- 14.4 Data/Fax modem (PCMCIA)
Display - light source	LCD - Backlit		LCD - Backlit		LCD - Backlit		LCD - Backlit		- Dock I (Docking Station)
Display - size (diag)	9.5 inch		9.5 inch **Dual scan**		8.4 inch		9.5 inch **Dual scan**		- CD-ROM/XA - double speed and Kodak Photo CD multisession
Display - contrast ratio	18 to 1		20 to 1		100 to 1		18 to 1		- Dock I Carrying Case
180 degree display tilt	Yes		Yes		Yes		Yes		- Interlink® ProPoint™
Graphics - controller	*All:* WD90C24A2 with 1 MB DRAM / Graphics WinMarks 4.0 = 3.7						Incudes untethered stylus to write on pen-enabled screen		Software:
Graphics - vendor	*All:* Western Digital / External SVGA to 1024 x 768 with 256 colors								- Asymetrix® COMPEL™ (on screen multimedia presentations)
Graph - arch/data path	*All:* VL-Bus / 32 bit VESA local bus / Simultaneous LCD and CRT								- Asymetrix MediaBlitz!™ (library of media clips)
Memory - std / max	*All:* 4 / 20 MB 70 ns		*Diskette drive can be removed ① to reduce weight, ② to insert cellular modem (CDPD), ③ (360C only) to insert TV Tuner (on screen TV/VCR playback), or ④ to add other third party options.*						- LapLink® V
Mem - sockets empty	*All:* 1 socket (non-parity)								- Picture Factory™
Mem - options available	*All:* 4, 8, 16 MB ICs (5.0 volts)								- TalkWorks™
Keyboard / # of keys	*All:* Full size alp/num/ 85		Fn + F2 = Fuel guage		Fn + F7 = Ext display/LCD				- Sound Effects Library™
Fn key functions	*All:* 10 (in any appl)		Fn + F3 = Standby		Fn + F8 = Reverse video (mono)				- ClickART™ 2000
Keyboard slope	*All:* Yes (legs pop out)		Fn + F4 = Suspend		Fn + F9 = Hi-intensity text (mono)				
Mouse/pointing	*All:* **TrackPoint II**™		Fn + F5 = Audio off/down		Fn + F11 = Power mgmt				**ALL 360 MODELS**
Ext keyboard support	*All:* Yes (with optional cable)		Fn + F6 = Audio on/up		Fn + F12 = Hibernation mode				***Liftable (pop-up) keyboard* to access and remove diskette drive, disk, battery, and memory**
Dimensions	11.7 x 8.3 x 1.7"		11.7 x 8.3 x 2.0"		11.7 x 8.3 x 1.9"		11.7 x 8.3 x 2.1"		
Cubic inches	165 inches		194 inches		185 inches		204 inches		
Carrying case	Many options		Many options		Many options		Many options		
Color	Black		Black		Black		Black		
Weight (with battery)	5.6 pounds		6.2 pounds		6.1 pounds		6.8 pounds		
Battery - type	Nickel hydride		Nickel hydride		Nickel hydride		Nickel hydride		
Batt - life (per battery)	4.6 to 10 hours		3 to 7 hours		3.5 to 7 hours		3.3 to 7 hours		
Charge time - on / off	2 hrs / 1.5 hr		2 hrs / 1.5 hr		2 hrs / 1.5 hr		2 hrs / 1.5 hr		
Architecture	*All:* AT bus (ISA)		*An intelligent battery (standard in ThinkPad 750 and 755) is optional. The ThinkPad 360 battery is lower cost, easy to use because no storage-switch control is required, and shows % of remaining power (compared to hours of remaining power).*						
Docking Station	*All:* **Yes** (Dock I and II; same as 750/755)								
Port replicator	*All:* **Yes** (Port Replicator I and II)								
Modem/serial slot	*All:* No								
PCMCIA 2.01 slots	*All:* **2 Type I or 2 Type II or 1 Type III**								
Serial / parallel ports	*All:* Yes (one 9 pin) / Yes (EPP)								
Other features	*All:* APM-aware BIOS / Selectable boot								
	All: Wallmount AC adapter without powercord with retractable prongs, 30 watts								
	All: **Hibernation mode** saves memory to disk and shuts off system								
Security	*All:* Power-on password / Hard disk password / Hardware security loop / PCMCIA card lock / Optional Security Base								
Preinstalled software	*All:* IBM DOS 6.3, Windows 3.1, Demo, and 8 applications: ① Lotus® cc:Mail, e-mail for Advantis® network, ② Lotus Organizer 1.12, ③ Lotus ScreenCam 1.0, ④ Official Airline Guide Flight Disk® 1.0, ⑤ Triton CoSessions™ Host, ⑥ PRODIGY®, ⑦ America Online℠, ⑧ SofNet FaxWorks™ 3.0						**360P** includes software to left and ① PenDOS® 2.2, ② IBM ThinkWrite, ③ Windows for Pen Computing 1.0		
Warranty	*All:* 1 year - carry in or EasyServ (optional onsite for $40) / International travelers warranty								

The ThinkPad 360 family has the same physical design as the ThinkPad 750 and 755.

EasyPlaying (PC Card Director™) is preinstalled and on the utility diskette for DOS, Windows and OS/2; it provides status and info on PCMCIA cards installed. In Windows and OS/2, it can register an appl for PCMCIA cards and execute them automatically. Auto Configurator and Memory Device Driver enables supported PCMCIA cards by sensing them automatically (so do not need to install their device drivers). This utility ships with ThinkPads 360, 510Cs, and 755 family.

Easy-Setup is entered by holding F1 when turning on. Easy-Setup, BIOS, and diagnostics are located in Flash memory.

Compatible in all 360, 750, and 755 family:
- Hard disks (170, 250, 340, 540, 810 MB)
- 1.44 MB diskette drive
- Dock I and Dock II
- Port Replicator I and Port Replicator II
- CDPD Mobile Module (not pen models)
- FDD (diskette) External Attachment kit
- Keyboard/mouse connector
- 360 battery does not work in ThinkPad 750/755, but 750/755 battery will work in 360
- Quick Charger
- AC Adapter

Memory from ThinkPad 350, 500, and 510Cs is NOT compatible in 360. IC Memory from ThinkPad 700, 720, 750, and 755 will work but without parity.

ThinkPad 750 and 755 options compatible ONLY in ThinkPad 360C:
- TV tuner and AD card

FEATURES OF 360 FAMILY

3 power saving modes: standby, suspend, and hibernation
Personalized nameplate in molded indentation
External VGA is ISO capable (75 Hz)
Upgradeable disks: 170 MB, 250 MB, 340MB, 540 MB, 810 MB (all 2.5 inch)
Battery life indicator
Non-disruptive battery exchange
US EPA Energy Star compliant
International travelers warranty
IBM or dealer warranty/service
30 day money back guarantee
24 hour / 7 day fax support
24 hour / 7 day bulletin board support
24 hour / 7 day telephone support at 1-800-772-2227

Winstone 94 for 360C = 26.4

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
STN = Super twisted nematic; ❑ = Upgradeable; ❍ = Removable
↘ Price decrease effective January 26, 1995; ⋊ Withdrawn from marketing

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(360THINK) Compiled by Roger Dodson, IBM. December 1995

IBM ThinkPad 360CSE / CE - withdrawn

IBM® ThinkPad®:	⋋ 360CSE dual scan color			⋋ 360CE TFT color		
Processor type	**80486 DX2**					
Processor speed	**50/25 MHz** 3.3 volt (SL Enhanced)					
Memory cache	8 KB internal (no L2 cache)					
Coprocessor socket	Integrated in 486DX2					
Removable diskette	3.5" 1.44 MB ❍ / supports internal 2.88 MB diskette					
Removable CD-ROM	None					
Price (retail USD)	$ 2,399 ↘	$ 2,699 ↘	$ 3,049 ↘	$ 2,799	$ 3,099	$ 3,449
Type - model	2620-80D	2620-80F	2620-80G	2620-90D	2620-90F	2620-90G
Removable disk - size	**170 MB** ❑	**340 MB** ❑	**540 MB** ❑	**170 MB** ❑	**340 MB** ❑	**540 MB** ❑
Hard drive - speed	14 ms ❍	14 ms ❍	14 ms ❍	14 ms ❍	14 ms ❍	14 ms ❍
Available date	Oct 94 / withdrawn Dec 95			Oct 94 / withdrawn Dec 95		
Display - type	**VGA color** / 640 x 480			**VGA color** / 640 x 480		
Display - colors	256 simultaneous colors			256 simultaneous colors		
Display - techology	**Dual scan** - passive matrix			**TFT - active matrix**		
Display - size (diag)	**9.5 inch**			**8.4 inch**		
Display - contrast ratio	20 to 1			100 to 1		
180 degree display tilt	Yes			Yes		
Graphics - controller	WD90C24A or A2 with 1 MB DRAM					
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 with 256 colors (up to 75 Hz)					
Graph - arch/data path	VL-Bus local bus / 32 bit / Simultaneous LCD and CRT					
Memory - std / max	4 MB / 20 MB 70 ns / non-parity / 5.0 volt					
Mem - sockets empty	1 socket					
Mem - options available	4, 8, 16 MB ICs					
Keyboard / # of keys	Full size alp/num / 85 keys					
Fn key functions	8 (in any appl)					
Keyboard slope	Yes (legs pop out)					
Mouse/pointing	**TrackPoint II**™					
Ext keyboard support	Yes (with optional cable)					
Dimensions	11.7 x 8.3 x 2.0"			11.7 x 8.3 x 1.9"		
Cubic inches	194 inches			185 inches		
Color	Black			Black		
Weight (with battery)	6.2 pounds			6.1 pounds		
Battery - type	Nickel hydride (NiMH)			Nickel hydride (NiMH)		
Batt - life (per battery)	2.9 to 7 hours			3.2 to 7 hours		
Charge time - on / off	2 hrs / 1.5 hr			2 hrs / 1.5 hr		
Architecture	AT bus (ISA)					
Docking Station	Dock I and II					
Port replicator	Port Replicator I and II					
Modem/serial slot	No					
PCMCIA™ 2.1 slots	**2 Type I or 2 Type II or 1 Type III**					
Serial / parallel ports	Yes (one 9 pin) 16550B / Yes (EPP)					
Other features	APM-aware BIOS / Selectable boot Some models will have Wallmount AC adapter without powercord with retractable prongs, 30 watts **Hibernation mode** saves memory to disk and shuts off system					
Security	Power-on password / Hard disk password / Hardware security loop / PCMCIA card lock / Optional Security Base					
Preinstalled software	IBM DOS 6.3, Windows™ 3.11, and all appls listed to right:					
Warranty	1 year - carry in or EasyServ (optional onsite for $40)					

The 360CSE / CE is the same as the 360 (older models) except:

360	360CSE / CE
Mono, Dual scan, TFT, Pen	Dual scan, TFT
486SX - 33 MHz	486DX2 - 50/25 MHz
No math cop possible	Integrated math cop
170, 340 MB std models	170, 340, 540 MB std More preloaded appls

ALL 360 MODELS

***Liftable (pop-up) keyboard* to access and remove diskette drive, disk, battery, and memory**

The removed diskette drive can be used externally via the optional 'FDD External Kit' (includes cable and enclosure; $135) to the Port Replicator Model I and II and Dock I and II.

Diskette drive can be removed
① to reduce weight
② to insert cellular modem (CDPD)
③ to insert TV Tuner (for on screen TV and VCR playback)
④ to insert 2.88 MB diskette
⑤ to add other third party options

PREINSTALLED APPLICATIONS

- IBM PC DOS 6.3
- Windows 3.11
- IBM PC Card Director for PCMCIA
- IBM ThinkPad Demo
- Online Users Guide
- ThinkPad features

1. Lotus® cc:Mail, e-mail for Advantis® network,
2. Lotus Organizer 1.12,
3. Lotus ScreenCam 1.0,
4. Official Airline Guide Flight Disk® 1.0,
5. Triton CoSession™ Host,
6. PRODIGY®,
7. America Online℠,
8. SofNet FaxWorks™ 3.0
9. Taxi™
10. Second Nature Screen Saver
11. Farallon® Replica™
12. AlphaNet™ FollowFax™
13. Sedona REPRINT™
14. COMPEL™ Personal Edition
15. Reuters℠ Money® Network

The ThinkPad 360 family has the same physical design as the ThinkPad 750 and 755 family.

PC Card Director™ (EasyPlaying) is preinstalled and on the utility diskette for DOS, Windows and OS/2. It provides:
① automatic config of many PCMCIA cards;
② visual/audible confirmation of insertion/ removal of cards;
③ ability to automatically launch an appl (e.g. async emulation) when card inserted;
④ status and info on PCMCIA cards installed.

Easy-Setup is entered by holding F1 when turning on. Easy-Setup, BIOS, and diagnostics are located in flash memory.

Battery compatibility:	All 360	All 750	755 C/ CS	755 CE/ CSE/ CD
84G2392 360 NiMH battery	Y	N	N	N
66G2846 750 NiMH battery	Y	Y	Y	N
85G1513 NiMH Batt Pack II	N	N	N	Y

Y = battery supported; N = not supported

Compatible in all 360 family, 360CSE / CE, 750 family, 755 family, 755CSE / CE, 755CD:

- Disks: 170 MB IDE disk	66G2849
250 MB IDE disk	84G2391
340 MB IDE disk	66G2849
540 MB IDE disk	84G2150
810 MB IDE disk	84G8250
- Dock I (1 slot / 1 bay)	3450001
- Dock II (2 slot / 2 bay)	84G3587
- Port Replicator I (w/ PCMCIA)	66G3510
- Port Replicator II	66G3520
- 1.44 MB diskette	std in newer
- 2.88 MB diskette	66G0108

Options for 360 (not pen), 360CSE / CE, 750 (not pen), 755, 755CSE / CE:
- CDPD Mobile module 71G2560

Memory from ThinkPad 350, 500, and 510Cs is NOT compatible in 360. IC Memory from ThinkPad 700, 720, 750, and 755 will work but without parity.

Options only for TFT models - 360C, 360CE, 750C, 755C, 755CE, 755CD
- TV Tuner 66G3689

FEATURES OF 360 FAMILY

3 power saving modes: standby, suspend, and hibernation
Personalized nameplate in molded indentation
External VGA is ISO capable (75 Hz)
Upgradeable disks: 170 MB, 250 MB, 340MB, 540 MB, 810 MB (all 2.5 inch)
Battery life indicator
Non-disruptive battery exchange
US EPA Energy Star compliant

HELPWARE

1 year warranty
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, and electronic support
IBM or dealer warranty/service
Online Housecall (remote diagnostics)
30 day money back guarantee

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
❑ = Upgradeable; ❍ = Removable; ↘ Price decrease effective February 14, 1995.

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No warranties are expressed or implied in this summary
(360E) Compiled by Roger Dodson, IBM. December 1995

IBM ThinkPad 360PE - withdrawn

IBM® ThinkPad®:	⋊ 360PE dual scan color - pen
Processor type	**80486 DX2**
Processor speed	**50/25 MHz** 3.3 volt (SL Enhanced)
Memory cache	8 KB internal (no L2 cache)
Coprocessor socket	Integrated in 486DX2
Removable diskette	3.5" 1.44 MB ❍ / supports internal 2.88 MB diskette
Removable CD-ROM	None

The ThinkPad 360PE has the same features as 360CSE except:

- **Pen enabled display**
- **Untethered batteryless stylus (pen)**
- **Display folds down to flat position to write on**
- **16 bit audio codec** (vs no audio)
- **Audio in and audio out jacks**
- **PenDOS, Pen Windows, and Monologue preinstalled**
- **35 watt universal AC adapter** (vs 30 watt)

Price (retail USD)	$3,699	$4,049
Type - model	2620-BOF	2620-BOG
Removable disk - size	**340 MB** ❑ ❍	**540 MB** ❑ ❍
Hard drive - speed	14 ms	14 ms
Avail / withdrawn date	April 1995 / June 96	July 1995 / June 1996

ALL 360 MODELS
***Liftable (pop-up) keyboard* to access and remove diskette drive, disk, battery, and memory**

Display - type	**VGA color** / 640 x 480
Display - colors	256 simultaneous colors
Display - techology	**Dual scan** - passive matrix
Display - size (diag)	**9.5 inch /** 20 to 1 contrast ratio
Display - pen enabled	**Pen enabled screen / folds flat / includes untethered batteryless stylus**
Graphics - controller	WD90C24A or A2 with 1 MB DRAM
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 with 256 colors (up to 75 Hz)
Graph - arch/data path	VL-Bus local bus / 32 bit / Simultaneous LCD and CRT
Memory - std / max	4 MB / 20 MB 70 ns / non-parity / 5.0 volt
Mem - sockets empty	1 socket
Mem - options available	4, 8, 16 MB ICs
Keyboard / # of keys	Full size alp/num / 85 keys
Fn key functions	8 (in any appl)
Keyboard slope	Yes (legs pop out)
Mouse/pointing	TrackPoint II™
Ext keyboard support	Yes (with optional cable)
Dimensions	11.7 x 8.3 x 2.1"
Cubic inches	204 inches
Color	Black
Weight (with battery)	6.8 pounds

Memory options:

4 MB IC DRAM 70 ns 5v parity	92G7232
8 MB IC DRAM 70 ns 5v parity	92G7233
16 MB IC DRAM 70 ns 5v parity	92G7234
4 MB IC DRAM 70 ns 5v non-parity	92G7236
8 MB IC DRAM 70 ns 5v non-parity	92G7237
16 MB IC DRAM 70 ns 5v non-parity	92G7424

Battery - type	Nickel hydride (NiMH)
Batt - life (per battery)	3 to 7 hours
Charge time - on / off	2 hrs / 1.5 hr
Architecture	AT bus (ISA)
Docking Station	Dock I and II
Port replicator	Port Replicator I and II
PCMCIA™ 2.1 slots	**2 Type I or 2 Type II or 1 Type III**
Serial / parallel ports	Yes (one 9 pin) / Yes (EPP)
Audio support	**16 bit audio codec on planar /** Crystal Semiconductor™ CS4248 / int speaker
Audio in/out jack	Input jack / output jack
Other features	APM-aware BIOS / Selectable boot AC adapter, 35 watts, worlwide, not wallmount Hibernation mode saves memory to disk and shuts off system
Security	Power-on password / Hard disk password / Hardware security loop (secures unit, prevents opening keyboard) / PCMCIA card lock / Optional Security Base
Preinstalled software	IBM DOS 6.3, Windows™ 3.11, pen op systems, and all appls listed to right:
Warranty	1 year - ThinkPad EasyServ only
Warranty options	Onsite via special bid only / ThinkPad EasyServ Overnight Repair Option

The removed diskette drive can be used externally via the optional 'FDD External Kit' (includes cable and enclosure) to the Port Replicator Model I and II and Dock I and II.

Diskette drive can be removed
① to reduce weight
② to add other third party options

PREINSTALLED APPLICATIONS

- IBM PC DOS 6.3
- **PenDOS® 2.2**
- **IBM ThinkWrite 1.21**
- Windows 3.11
- **Windows for Pen computing® 1.0**
- IBM PC Card Director for PCMCIA
- Online Users Guide
- ThinkPad features

1. Lotus® cc:Mail, for the IBM Global® network
2. Lotus Organizer 1.12
3. Lotus ScreenCam 1.0
4. Official Airline Guide Flight Disk® 1.0
5. Triton CoSession™ Host
6. PRODIGY®
7. America Online℠
8. SofNet FaxWorks™ 3.0
9. Taxi™
10. Second Nature Screen Saver
11. Farallon® Replica™
12. AlphaNet™ FollowFax™
13. Sedona REPRINT™
14. COMPEL™ Personal Edition
15. Reuters℠ Money® Network
16. Monologue™

The ThinkPad 360 family has the same physical design as the ThinkPad 750 and 755 family.

PC Card Director™ (EasyPlaying) is preinstalled and on the utility diskette for DOS, Windows and OS/2. It provides:
① automatic config of many PCMCIA cards;
② visual/audible confirmation of insertion/ removal of cards;
③ ability to automatically launch an appl (e.g. async emulation) when card inserted;
④ status and info on PCMCIA cards installed.

Easy-Setup is entered by holding F1 when turning on. Easy-Setup, BIOS, and diagnostics are located in flash memory.

ThinkPad 360PE supported batteries:

- 360 NiMH battery	84G2392
- 750 NiMH battery	66G2846
- 750 QuickCharger	66G2843

Compatible in all 360 family, all 750 family, and all 755 family:

- Disks: 170 MB IDE	66G2847
250 MB IDE	84G2391
340 MB IDE	66G2849
540 MB IDE	84G2150
810 MB IDE	84G8250
- Dock I (1 slot / 1 bay)	3545001
- Dock II (2 slot / 2 bay)	3546001
- Port Replicator I (w/ PCMCIA)	66G3510
- Port Replicator II	66G3520
- 1.44 MB diskette	std in newer

Options for 360PE:

- AC Adapter, 35 watts	85G6680
- AC Adapter, 40 watts	49G2165
- AC Adapter, 40 w, wallmount	84G2148
- Car Battery Adapter	49G2167

Memory from ThinkPad 350, 500, and 510Cs is NOT compatible in 360. IC DRAM memory from ThinkPad 700, 720, 750, and 755 will work but without parity.

FEATURES OF 360 FAMILY

3 power saving modes: standby, suspend, and hibernation
Personalized nameplate in molded indentation
External VGA is ISO capable (75 Hz)
Upgradeable disks: 170 MB, 250 MB, 340MB, 540 MB, 810 MB (all 2.5 inch)
Battery life indicator
Non-disruptive battery exchange
US EPA Energy Star compliant

HELPWARE

1 year warranty
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, and electronic support
IBM or dealer warranty/service
Online Housecall (remote diagnostics)
30 day money back guarantee

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
❑ = Upgradeable; ❍ = Removable; ⋊ = Withdrawn from marketing

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No warranties are expressed or implied in this summary
(360PE) Compiled by Roger Dodson, IBM. June 1996

IBM ThinkPad 365 (non-CD-ROM models) - withdrawn

IBM® ThinkPad®:	⋊ 365CS 10.4" dual scan				⋊ 365C 10.4" TFT	
Processor	**Cyrix Cx486DX4™ 75/25 MHz** / integrated math coprocessor					
Processor upgrade	None					
Memory cache	8 KB in DX4 (write back) / no L2 cache					
Diskette drive	Internal 3.5" 1.44 MB (not removeable)					
CD-ROM	None (cannot upgrade)					
Price						
Type - model **all 2625**	203	W11	205	W12	2625-305	2625-W13
Part number	38H5711	41H8660	38H5712	41H8661	38H5714	41H8662
Preload (see side)	SelSys	Win 95	SelSys	Win 95	SelectaSystem	Windows 95
Disk - capacity	**340 MB**	**340 MB**	**540 MB**	**540 MB**	**540 MB**	**540 MB**
Disk - ms / interface	13 ms / EIDE		13 ms / EIDE		13 ms / EIDE	13 ms / EIDE
Avail / withdrawn date	Nov 1995 / Jun 96		Nov 1995 / Jun 96		Nov 95 / Jun 96	Nov 1995 / Jun 96
Display - diagonal size	**10.4" Dual scan**				**10.4" Black Matrix TFT** - active matrix	
Display - type	**VGA color / 640 x 480**				**VGA color / 640 x 480**	
Display - colors	256 simultaneous colors				**262,144 simultaneous colors**	
Display - contrast	30 to 1				100 to 1	
Graphics - controller	Chips and Technologies™ 65545				Chips and Technologies 65545	
Graphics - memory	512 KB DRAM				1 MB DRAM	
Graphics - external	External SVGA to 1024 x 768 w/ 256 colors up to 70 Hz					
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt					
Memory - std / max	**8 MB** / 24 MB 70 ns / non-parity / 3.3 volt / fast page					
Memory - upgrade	1 socket for one JEDEC 72 pin SO DIMM of 4 or 16 MB					
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)				***Liftable (pop-up) keyboard* to access and remove battery (and upgrade memory and disk); diskette drive is not removable**	
Keyboard slope	Yes (legs pop out)					
Pointing	**TrackPoint III**™					
Ext keyboard support	Yes (with option cable or Port Replicator)					
Dimensions (cubic in)	11.7 x 8.3 x 2.0" (194 cubic inches)					
Weight (with battery)	5.9 pounds				5.8 pounds	
Battery - type	NiMH / non-intelligent					
Battery - life	3 to 9 hours					
Charge time - on / off	6 hrs / 2 hrs					
Architecture	ISA (audio, PCMCIA, diskette, serial, parallel, 100 pin external expansion) VL-Bus 2.0 / 32 bit / 25 MHz (graphics, disk)					
Docking Station	None					
Port replicator	Port Replicator and Charger (with built-in battery charger and palm rest)					
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III					
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284, EPP, ECP, bidirectional)					
Other features	APM-aware BIOS / Universal AC adapter (35 watts) / Phoenix™ BIOS					
MPEG decoder	None					
Data/fax modem	None					
Audio support	None					
Audio in/out jacks	None					
Infrared ports	**Infrared port in back / IrDA 1.0 compatible / up to 115 Kbps**					
Security	Power-on password / Supervisor password / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / keyboard lock (requires Kensington)					
Preinstalled software	Choice of two preloaded configurations (listed to right)					
Warranty	**1 year -** ThinkPad EasyServ (optional Overnight Repair Option) or carry-in					

ThinkPad 365 strengths:

- **Entry-priced notebook**
- **Extensive software preload**
- **Infrared port**
- **Optional Port Replicator with battery charger and palm rest**

SELECTASYSTEM PRELOAD

- IBM DOS 7.0
- Windows 3.11
- OS/2® Warp 3.0 (dual boot) with selected BonusPak applications
- IBM PC Card Director™ 1.4
- IBM ThinkPad Demo
- Online Users Guide
- ThinkPad features ; Diskette Factory

1. Lotus® cc:Mail™, e-mail for IBM Global® Network
2. Lotus Organizer™
3. Lotus ScreenCam™
4. Triton CoSession™ Host
5. PRODIGY®
6. SofNet FaxWorks™
7. Video For Windows™ Runtime
8. Puma TranXit™
9. Compuserv for Windows
10. NetFinity for Windows and OS/2

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- IBM ThinkPad Demo
- Online Users Guide
- ThinkPad features; Diskette Factory

1. Lotus® cc:Mail™, e-mail for IBM Global® network
2. Lotus Organizer™
3. Lotus ScreenCam™
4. Triton CoSession™ Host
5. PRODIGY®
6. SofNet FaxWorks™
7. Puma TranXit™
8. Compuserve for Windows

Disk is not removable (like 755/760 systems), but it can be upgraded via tools

The **Port Replicator and Charger** provide cable management, a battery charger for an optional second battery, a palm rest when installed on the system, and has complete port replication.

The Port Replicator can charge a battery whether or not a ThinkPad is connected to it. When the ThinkPad is attached to the Port Replicator, it will attempt to recharge the battery in ThinkPad first (if there is one) before charging the battery in the Port Replicator.

Port Replicator and Charger connectors:

- Serial (RS-232, 9 pin)
- Parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Diskette drive (26 pin)
- Game with MIDI support (15 pin)
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- DC input connector
- Spare battery connector (to charge 2nd battery)

Options for ThinkPad 365:

- 4 MB SO DIMM 3.3v non-parity 72 pin	92G7287
- 16 MB SO DIMM 3.3v non-parity 72 pin	92G7293
- 720 MB EIDE HDD 13 ms PIO Mode 3	38H6306
- 810 MB EIDE HDD 13 ms PIO Mode 4	42H4012
- 1.08 GB EIDE HDD 13 ms Mode 4	69H7956
- Port Replicator and Charger	38H6303
- NiMH Battery Pack	38H6304

Setup is entered by Ctrl + Alt + F11 from any full-screen DOS prompt

Fn + F2 = Battery guage
Fn + F3 = Standby
Fn + F4 = Suspend
Fn + F7 = LCD/CRT/Simultaneous
Fn + F8 = Reverse video
Fn + F11 = Power mgmt
Fn + F12 = Hibernation
PgUp = Speaker enable
PgDn = Speaker disable

System enters hibernation mode when keyboard is lifted up.

FEATURES OF 365 MODELS

Product Map
LED indicator panel
Plug and Play 1.0a
Non-disruptive battery exchange
Doze, standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, and electronic support
IBM or dealer warranty/service
Online Housecall (remote diagnostics)
30 day money back guarantee

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
⋊ = Withdrawn from marketing

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No warranties are expressed or implied in this summary
(365) Compiled by Roger Dodson, IBM. June 1996

IBM ThinkPad 365 (CD-ROM models) - withdrawn

IBM® ThinkPad®:	⋊ 365CSD 10.4" dual scan - CD-ROM		⋊ 365CD 10.4" TFT - CD-ROM	
Processor	**Cyrix Cx 486DX4™ 75/25 MHz** / integrated math coprocessor			
Processor upgrade	None			
Memory cache	8 KB in DX4 (write-back) / no L2 cache			
Diskette (not internal)	External 3.5" 1.44 MB (connects to back of system) / use simultaneously w/ CD-ROM			
CD-ROM (not remove)	**5.25" CD-ROM / double speed / multi-session / XA / front loaded / ATAPI**			
Price				
Type - model **all 2625**	2625-A05	2625-W14	2625-B05	2625-W15
Part number	38H5724	41H8663	38H5726	41H8664
Preload (see side)	SelectaSystem	Windows 95	SelectaSystem	Windows 95
Disk - capacity	**540 MB**	**540 MB**	**540 MB**	**540 MB**
Disk - ms / interface	13 ms / EIDE	13 ms / EIDE	13 ms / EIDE	13 ms / EIDE
Avail / withdrawn date	Nov 1995 / Jun 96	Nov 95 / Jun 96	Nov 95 / Jun 96	Nov 95 / Jun 96
Display - diagonal size	**10.4" Dual scan**		**10.4" Black Matrix TFT** - active matrix	
Display - type	**VGA color / 640 x 480**		**VGA color / 640 x 480**	
Display - color	256 simultaneous colors		**262,144 simultaneous colors**	
Display - contrast	30 to 1		100 to 1	
Graphics - controller	Chips and Technologies™ 65545 with 1 MB DRAM			
Graphics - external	External SVGA to 1024 x 768 w/ 256 colors up to 70 Hz			
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt			
Memory - std / max	**8 MB** / 24 MB 70 ns / non-parity / 3.3 volt / fast page			
Mem - upgrade	1 socket for one JEDEC 72 pin SO DIMM of 4 or 16 MB			
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)			
Keyboard slope	Yes (legs pop out)			
Pointing	**TrackPoint III™**			
Ext keyboard support	Yes (with option cable or Port Replicator)			
Dimensions (cubic in)	11.7 x 8.3 x 2.0" (194 cubic inches)			
Weight (with battery)	6.4 pounds		6.3 pounds	
Battery - type	NiMH / non-intelligent			
Battery - life	2.5 to 9 hours			
Charge time - on / off	6 hrs / 2 hrs			
Architecture	ISA (audio, PCMCIA, diskette, serial, parallel, 240 pin external expansion) VL-Bus 2.0 / 32 bit / 25 MHz (graphics, disk)			
Docking Station	None			
Port replicator	Port Replicator and Charger (with built-in battery charger and palm rest)			
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III			
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284, EPP, ECP, bidirectional)			
Other features	APM-aware BIOS / Universal AC adapter (35 watts) / Phoenix™ BIOS			
MPEG decoder	None			
Data/fax modem	None			
Audio support	**16 bit audio chip / 18 voice MIDI FM Synthesis / ESS1688 with OPL3** **Internal speaker / .5 watt / dial volume control / internal microphone**			
Audio in/out jacks	Input jack (stereo) / microphone jack / output jack (stereo) Joystick/MIDI port (includes Joystick/MIDI cable)			
Infrared ports	**Infrared port in back / IrDA 1.0 compatible / up to 115 Kbps**			
Security	Power-on password / Supervisor password / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / keyboard lock (requires Kensington)			
Preinstalled software	Choice of two preloaded configurations (listed to right)			
Warranty	**1 year -** ThinkPad EasyServ (optional Overnight Repair Option) or carry-in			

***Liftable (pop-up) keyboard* to access and remove battery (and upgrade memory and disk);**
CD-ROM is not removable

ThinkPad 365 (CD-ROM models) strengths:

- **Entry-priced CD-ROM notebook**
- **Integrated audio, microphone, speaker**
- **Simultaneous external diskette**
- **Joystick/MIDI port**
- **Infrared port**

SELECTASYSTEM PRELOAD

- IBM DOS 7.0
- Windows 3.11
- OS/2® Warp 3.0 (dual boot) with selected BonusPak applications
- IBM PC Card Director™ 1.4
- IBM ThinkPad Demo
- Online Users Guide
- ThinkPad features ; Diskette Factory

1. Lotus® cc:Mail™, e-mail for IBM Global® Network
2. Lotus Organizer™
3. Lotus ScreenCam™
4. Triton CoSession™ Host
5. PRODIGY®
6. SofNet FaxWorks™
7. Video For Windows™ Runtime
8. Puma TranXit™
9. Compuserv for Windows
10. NetFinity for Windows and OS/2

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- IBM ThinkPad Demo
- Online Users Guide
- ThinkPad features; Diskette Factory

1. Lotus® cc:Mail™, e-mail for IBM Global® Network
2. Lotus Organizer™
3. Lotus ScreenCam™
4. Triton CoSession™ Host
5. PRODIGY®
6. SofNet FaxWorks™
7. Puma TranXit™
8. Compuserve for Windows

Disk is not removable (like 755/760 systems), but it can be upgraded via tools

The **Port Replicator and Charger** provide cable management, a battery charger for an optional second battery, a palm rest when installed on the system, and has complete port replication.

The Port Replicator can charge a battery whether or not a ThinkPad is connected to it. When the ThinkPad is attached to the Port Replicator, it will attempt to recharge the battery in ThinkPad first (if there is one) before charging the battery in the Port Replicator.

Port Replicator and Charger connectors:

- Serial (RS-232, 9 pin)
- Parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Diskette drive (26 pin)
- Game with MIDI support (15 pin)
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- DC input connector
- Spare battery connector (to charge 2nd battery)

Options for ThinkPad 365:

- 4 MB SO DIMM 3.3v non-parity 72 pin	92G7287
- 16 MB SO DIMM 3.3v non-parity 72 pin	92G7293
- 720 MB EIDE HDD 13 ms PIO Mode 3	38H6306
- 810 MB EIDE HDD 13 ms PIO Mode 4	42H4012
- 1.08 GB EIDE HDD 13 ms Mode 4	69H7956
- Port Replicator and Charger	38H6303
- NiMH Battery Pack	38H6304

Setup is entered by Ctrl + Alt + F11 from any full-screen DOS prompt

Fn + F2 = Battery guage
Fn + F3 = Standby
Fn + F4 = Suspend
Fn + F7 = LCD/CRT/Simultaneous
Fn + F8 = Reverse video
Fn + F11 = Power mgmt
Fn + F12 = Hibernation
PgUp = Speaker enable
PgDn = Speaker disable

System enters hibernation mode when keyboard is lifted up.

FEATURES OF 365 MODELS

Product Map
LED indicator panel
Plug and Play 1.0a
Non-disruptive battery exchange
Doze, standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, and electronic support
IBM or dealer warranty/service
Online Housecall (remote diagnostics)
30 day money back guarantee

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
⋊ = Withdrawn from marketing

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No warranties are expressed or implied in this summary
(365CD) Compiled by Roger Dodson, IBM. June 1996

IBM ThinkPad 365E - withdrawn

IBM® ThinkPad®:	⋋ **365E** 10.4" dual scan
Processor	**IBM 5x86c™ 100/33 MHz** (Cyrix) / integrated math coprocessor
Processor upgrade	None
Memory cache	16 KB in 5x86c (write back) / no L2 cache
Diskette drive	Internal 3.5" 1.44 MB (not removeable)
CD-ROM	None (can not upgrade)
Price	
Type - model	2625-W9A
Preload (see side)	Windows 95
Disk - capacity	**540 MB**
Disk - ms / interface	13 ms / EIDE / PIO Mode 3
Available date	May 1996
Withdrawn date	October 1996
Display - diagonal size	**10.4" Dual scan**
Display - type	**VGA color / 640 x 480**
Display - colors	256 simultaneous colors
Display - contrast	30 to 1
Graphics - controller	Chips and Technologies™ 65545
Graphics - memory	1 MB DRAM
Graphics - external	External SVGA to 1024 x 768 w/ 256 colors up to 70 Hz
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt
Memory - std / max	**8 MB** / 24 MB 70 ns / non-parity / 3.3 volt / fast page
Memory - upgrade	1 socket for one JEDEC 72 pin SO DIMM of 4 or 16 MB
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	Yes (legs pop out)
Pointing	**TrackPoint III™**
Ext keyboard support	Yes (with option cable or Port Replicator)
Dimensions (cubic in)	11.7 x 8.3 x 2.0" (194 cubic inches)
Weight (with battery)	5.9 pounds
Battery - type	NiMH / non-intelligent
Battery - life	2.5 hours
Charge time - on / off	6 hrs / 2 hrs
Architecture	ISA (audio, PCMCIA, diskette, serial, parallel, 100 pin external expansion) VL-Bus 2.0 / 32 bit / 25 MHz (graphics, disk)
Docking Station	None
Port replicator	Port Replicator and Charger (with built-in battery charger and palm rest)
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter (35 watts) / Phoenix™ BIOS
MPEG decoder	None
Data/fax modem	None
Audio support	None
Audio in/out jacks	None
Infrared ports	**Infrared port in back / IrDA 1.0 compatible / up to 115 Kbps**
Security	Power-on password / Supervisor password / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / keyboard lock (requires Kensington)
Preinstalled software	Windows 95 with utilities and applications (listed to right)
Warranty	**1 year -** ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

***Liftable (pop-up) keyboard* to access and remove battery (and upgrade memory and disk); diskette drive is not removable**

ThinkPad 365 strengths:

- **Entry-priced notebook**
- **Extensive software preload**
- **Infrared port**
- **Optional Port Replicator with battery charger and palm rest**

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online Users Guide
- Diskette Factory
- PC Card Director 1.4

1. Triton™ CoSession™ Host
2. Puma TranXit™
3. NetFinity for Windows
4. CompuServ™ for Windows

The **Port Replicator and Charger** provide cable management, a battery charger for an optional second battery, a palm rest when installed on the system, and has complete port replication.

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Port Replicator and Charger connectors:

- Serial (RS-232, 9 pin)
- Parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Diskette drive (26 pin)
- Game with MIDI support (15 pin)
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- DC input connector
- Spare battery connector (to charge 2nd battery)

Options for ThinkPad 365:

- 4 MB SO DIMM 3.3v non-parity 72 pin	92G7287
- 16 MB SO DIMM 3.3v non-parity 72 pin	92G7293
- 810 MB EIDE HDD 13 ms Mode 4	42H4012
- 1.08 GB EIDE HDD 13 ms Mode 4	69H7956
- Port Replicator and Charger (old)	38H6303
replaced by	75H7529
- NiMH Battery Pack	38H6304
- 35 watt AC Adapter - 2 pin	85G6719

Setup is entered by Ctrl + Alt + F11 from any full-screen DOS prompt

Fn + F2 = Battery guage
Fn + F3 = Standby
Fn + F4 = Suspend
Fn + F7 = LCD/CRT/Simultaneous
Fn + F8 = Reverse video
Fn + F11 = Power mgmt
Fn + F12 = Hibernation
PgUp = Speaker enable
PgDn = Speaker disable

System enters hibernation mode when keyboard is lifted up

Disk is not removable (like 755/760 systems), but it can be upgraded via a screwdriver

FEATURES OF 365 MODELS

Product Map
LED indicator panel
Plug and Play 1.0a
Non-disruptive battery exchange
Doze, standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls IBM HelpCenter, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).

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No warranties are expressed or implied in this summary
(365E) Compiled by Roger Dodson, IBM. October 1996

IBM ThinkPad 365ED - withdrawn

IBM® ThinkPad®:	⋋ 365ED 10.4" dual scan - CD-ROM
Processor	**IBM 5x86c™ 100/33 MHz** (Cyrix) / integrated math coprocessor
Processor upgrade	None
Memory cache	16 KB in 5x86c (write-back) / no L2 cache
Diskette (not internal)	External 3.5" 1.44 MB (connects to back of system) / use simultaneously w/ CD-ROM
CD-ROM (not remove)	**5.25" CD-ROM / 4 x speed / multi-session / XA / front loaded / ATAPI**
Price	
Type - model	2625-W9G
Preload (see side)	Windows 95
Disk - capacity	**540 MB**
Disk - ms / interface	13 ms / EIDE / PIO Mode 3
Available date	May 1996
Withdrawn date	October 1996
Display - diagonal size	**10.4" Dual scan**
Display - type	**VGA color / 640 x 480**
Display - color	256 simultaneous colors
Display - contrast	30 to 1
Graphics - controller	Chips and Technologies™ 65545 with 1 MB DRAM
Graphics - external	External SVGA to 1024 x 768 w/ 256 colors up to 70 Hz
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt
Memory - std / max	**8 MB** / 24 MB 70 ns / non-parity / 3.3 volt / fast page
Mem - upgrade	1 socket for one JEDEC 72 pin SO DIMM of 4 or 16 MB
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	Yes (legs pop out)
Pointing	**TrackPoint III™**
Ext keyboard support	Yes (with option cable or Port Replicator)
Dimensions (cubic in)	11.7 x 8.3 x 2.0" (194 cubic inches)
Weight (with battery)	6.4 pounds
Battery - type	NiMH / non-intelligent
Battery - life	2.3 hours
Charge time - on / off	6 hrs / 2 hrs
Architecture	ISA (audio, PCMCIA, diskette, serial, parallel, 240 pin external expansion) VL-Bus 2.0 / 32 bit / 25 MHz (graphics, disk)
Docking Station	None
Port replicator	Port Replicator and Charger (with built-in battery charger and palm rest)
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter (35 watts) / Phoenix™ BIOS
MPEG decoder	None
Data/fax modem	None
Audio support	**16 bit audio chip / 18 voice MIDI FM Synthesis / ESS1688 with OPL3** **Internal speaker / .5 watt / dial volume control / internal microphone**
Audio in/out jacks	Input jack (stereo) / microphone jack / output jack (stereo) Joystick/MIDI port (includes Joystick/MIDI cable)
Infrared ports	**Infrared port in back / IrDA 1.0 compatible / up to 115 Kbps**
Security	Power-on password / Supervisor password / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / keyboard lock (requires Kensington)
Preinstalled software	Windows 95 with utilities and applications (listed to right)
Warranty	**1 year -** ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

***Liftable (pop-up) keyboard* to access and remove battery (and upgrade memory and disk);**
CD-ROM is not removable

ThinkPad 365 (CD-ROM models) strengths:

- **Entry-priced CD-ROM notebook**
- **Integrated audio, microphone, speaker**
- **Simultaneous external diskette**
- **Joystick/MIDI port**
- **Infrared port**
- **MPC2 compliant**

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online Users Guide
- Diskette Factory
- PC Card Director 1.4

1. Triton CoSession™ Host
2. Puma TranXit™
3. NetFinity for Windows
4. CompuServ™ for Windows

The **Port Replicator and Charger** provide cable management, a battery charger for an optional second battery, a palm rest when installed on the system, and has complete port replication.

The Port Replicator can charge a battery whether or not a ThinkPad is connected to it. When the ThinkPad is attached to the Port Replicator, it will attempt to recharge the battery in ThinkPad first (if there is one) before charging the battery in the Port Replicator.

Port Replicator and Charger connectors:

- Serial (RS-232, 9 pin)
- Parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Diskette drive (26 pin)
- Game with MIDI support (15 pin)
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- DC input connector
- Spare battery connector (to charge 2nd battery)

Options for ThinkPad 365:

- 4 MB SO DIMM 3.3v non-parity 72 pin	92G7287
- 16 MB SO DIMM 3.3v non-parity 72 pin	92G7293
- 810 MB EIDE HDD 13 ms Mode 4	42H4012
- 1.08 GB EIDE HDD 13 ms Mode 4	69H7956
- Port Replicator and Charger (old)	38H6303
replaced by	75H7529
- NiMH Battery Pack	38H6304
- 35 watt AC Adapter - 2 pin	85G6719

Setup is entered by Ctrl + Alt + F11 from any full-screen DOS prompt

Fn + F2 = Battery guage
Fn + F3 = Standby
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Fn + F7 = LCD/CRT/Simultaneous
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Fn + F11 = Power mgmt
Fn + F12 = Hibernation
PgUp = Speaker enable
PgDn = Speaker disable

System enters hibernation mode when keyboard is lifted up

Disk is not removable (like 755/760 systems), but it can be upgraded via a screwdriver

FEATURES OF 365 MODELS

Product Map
LED indicator panel
Plug and Play 1.0a
Non-disruptive battery exchange
Doze, standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
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International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
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ThinkPad EasyServ™: customer calls IBM HelpCenter, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).

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No warranties are expressed or implied in this summary
(365ED) Compiled by Roger Dodson, IBM. October 1996

IBM ThinkPad 365X - withdrawn

IBM® ThinkPad®:	✂ 365X 10.4" SVGA TFT or DSTN color	
Processor type	**Pentium® 100/66** / 64-bit transfer to memory	
Processor upgrade	None	
L2 cache	None (not upgradeable)	
Diskette drive	Internal 3.5" 1.44MB ❍ (not removable)	
External FDD port	External FDD port (used if purchase CD-ROM upgrade)	
Internal CD-ROM	None standard / 4 x CD-ROM option available (not customer install)	
Price		
Type - model	2625-6E7	2625-7E7
Preload (see side)	**Windows 95**	**Windows 95**
Avail / withdrawn date	May 1996 / January 1997	May 1996 / January 1997
Disk - size / ms	**810MB** / 13ms m / PIO Mode 4	
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk	
Display - size and type	**10.4 inch DSTN color**	**10.4 inch TFT color**
Display - techology	**SVGA** / 640x480 or 800x600 **Dual scan** 256 sim colors / 25 to 1 contrast ratio	**SVGA** / 640x480 or 800x600 **Black Matrix TFT** - active matrix 65,536 simultaneous colors / 100 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9320 / 32-bit SVGA accelerator / 1MB fast page DRAM / 70ns	
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024x768 w/ 256 colors	
Gaphics - features	Simultaneous LCD and CRT / 180 degree tilt	
Memory - std / max	**8MB** / 40MB	
Memory - features	70ns / non-parity / 3.3 volt / EDO / 1 socket for one JEDEC 144 pin EDO SO DIMMs of 8, 16, or 32MB	
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions)	
Keyboard slope	Yes (legs pop out)	
Pointing / palm rest	**TrackPoint III**™ / external keyboard support (w/ option cable or Port Replicator)	
Dimensions	11.7 x 8.3 x 1.9" (185 cu in)	
Weight	6.0 pounds (2.7 kg)	
Battery - type	NiMH / non-intelligent	
Battery - life (1 batt)	2.5 hours	
Charge time - on / off	1.5 hrs / 1.2 hrs	
Architecture	ISA (audio, PCMCIA, diskette, serial, parallel, infrared) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics)	
Docking Station	None	
Port replicator	Port Replicator and Charger (with built-in battery charger and palm rest)	
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III	
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	
Other features	APM-aware BIOS / Universal AC adapter 3 prong (35 watts) / Selectable boot	
Video in/out	None	
MPEG decoder	None	
Data/fax modem	None	
Audio support	**16-bit audio chip / 18 voice MIDI FM Synthesis / ESS1688** **One internal speaker / .5 watt / dial volume control / internal microphone**	
Audio in/out jacks	Input jack (stereo) / microphone jack / output jack (stereo) / no joystick port	
Infrared ports	**Infrared port in back / IrDA 1.0 compatible / up to 115Kbps**	
Security	Power-on pwd / Hard disk pwd / Supervisor pwd / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / keyboard lock (requires Kensington)	
Preinstalled software	Microsoft Windows 95 wth applications (listed on right)	
Warranty	**1 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in	

Key differences between 365E and 365X:

365E	365X
5x86c 100/33MHz	Pentium 100, 120, 133
8MB fast page (to 24MB)	8MB EDO (to 40MB)
VL-Bus graphics and disk	PCI graphics and disk
10.4" VGA 640x480 LCD	SVGA 800x600
540MB disk standard	810MB or 1.08GB disk
No integrated audio	16-bit audio
Phoenix BIOS	IBM BIOS with Easy Setup and ThinkPad Features

***Liftable (pop-up) keyboard* to access and remove battery (and upgrade memory and disk); diskette drive is not removable**

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features
- PC Card Director 4.0
- Diskette Factory

1. Triton CoSession™ Host
2. Compuserv for Windows
3. NetFinity for Windows 95
4. Puma TranXit™

- Lotus SmartSuite 96 CD-ROM

Easy-Setup is entered by holding F1 when turning on.

810MB = DMA Mode 2 or PIO Mode 4
1.08GB = DMA Mode 2 or PIO Mode 4

The **Port Replicator and Charger** provide cable management, a battery charger for an optional second battery, a palm rest when installed on the system, and has complete port replication.

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- Parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Diskette drive (26 pin)
- Game with MIDI support (15 pin)
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- DC input connector
- Spare battery connector (to charge 2nd battery)

Options for ThinkPad 365X:

- 8MB SO DIMM 3.3v NP EDO 64-bit	**92G7340**
- 16MB SO DIMM 3.3v NP EDO 64-bit	**92G7341**
- 32MB SO DIMM 3.3v NP EDO 64-bit	**92G7342**
- 810MB EIDE HDD 13ms	42H4012
- 1.08GB EIDE HDD 13ms	69H7956
- 1.4GB EIDE HDD 3L 12.5 mm	82H8161
- Port Replicator and Charger	75H7529
- NiMH Battery Pack	38H6304
- 365X 4 x CD-ROM Drive	73H7225
- 35 watt AC Adapter (2 pin barrel)	85G6719
- 35 watt AC Adapter (slim, 2 pin)	76H0139

Fn + F2 = Battery guage
Fn + F3 = Standby
Fn + F4 = Suspend
Fn + F7 = LCD/CRT/Simultaneous
Fn + F11 = Power mgmt
Fn + F12 = Hibernation

Disk is not removable (like 755/760 systems), but it can be upgraded via a screwdriver

FEATURES OF 365 MODELS

Quick Setup Guide
LED indicator panel
Plug and Play 1.0a
Doze, standby, suspend, safe suspend, and hibernation modes
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Personalized nameplate in indention
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ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
❍ = Removable

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No warranties are expressed or implied in this summary
(365X) Compiled by Roger Dodson, IBM. May 1999

IBM ThinkPad 365X (Fall 1996 models) - withdrawn

IBM® ThinkPad®:	⋋ **365X** 10.4" SVGA TFT or 11.3" SVGA DSTN color	
Processor type	**Pentium® 120/60 or 133/66MHz** / 64-bit transfer to memory	
Processor upgrade	None	
L2 cache	None (not upgradeable)	
Diskette drive	Internal 3.5" 1.44MB m (not removable)	
External FDD port	External FDD port (used if purchase CD-ROM upgrade)	
Internal CD-ROM	None standard / 4 x or 8 x CD-ROM option available which includes an external diskette drive (not customer install)	
Price		
Type - model	2625-3E9	2625-2E9
Preload (see side)	**Windows 95**	**Windows 95**
Avail / withdrawn date	October 1996 / July 1997	October 1996 / October 1997
Pentium speed	**120/60MHz**	**133/66MHz**
Disk - size / ms	**810MB** / 13ms ❍ / PIO Mode 4	**1.08GB** / 13ms ❍ / PIO Mode 4
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk	
Display - size and type	**10.4 inch TFT color**	**11.3 inch DSTN color**
Display - techology	**SVGA** / 640x480 or 800x600 **Black Matrix TFT** - active matrix 65,536 simultaneous colors / 100 to 1	**SVGA** / 640x480 or 800x600 **Dual scan** 256 simultaneous colors / 30 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9320 / 32-bit SVGA accelerator / 1 MB fast page DRAM / 70ns	
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024x768 w/ 256 colors	
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt	
Memory - std / max	**8MB** / 40MB	
Memory - features	70ns / non-parity / 3.3 volt / EDO / 1 socket for one JEDEC 144 pin EDO SO DIMMs of 8, 16, or 32MB	
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions)	
Keyboard slope	Yes (legs pop out)	
Pointing / palm rest	**TrackPoint III**™ / external keyboard support (w/ option cable or Port Replicator)	
Dimensions	11.7 x 8.3 x 1.9" (185 cu in)	
Weight	6.1 pounds (2.76 kg)	5.9 pounds (2.67 kg)
Battery - type	NiMH / non-intelligent	***Liftable (pop-up) keyboard* to access and remove battery (and upgrade memory and disk); diskette drive is not removable**
Battery - life	2.5 hours	
Charge time - on / off	1.5 hrs / 1.2 hrs	
Architecture	ISA (audio, PCMCIA, diskette, serial, parallel, infrared) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics)	
Docking Station	None	
Port replicator	Port Replicator and Charger (with built-in battery charger and palm rest)	
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III	
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	
Other features	APM-aware BIOS / Universal AC adapter 3 prong (35 watts) / Selectable boot	
Video in/out	None	
MPEG decoder	None	
Data/fax modem	None	
Audio support	**16-bit audio chip / 18 voice MIDI FM Synthesis / ESS1688** **One internal speaker / .5 watt / dial volume control / internal microphone**	
Audio in/out jacks	Input jack (stereo) / microphone jack / output jack (stereo) / no joystick port	
Infrared ports	**Infrared port in back / IrDA 1.0 compatible / up to 115Kbps**	
Security	Power-on pwd / Hard disk pwd / Supervisor pwd / Security keyhole (requires cable) / keyboard lock (requires cable)	
Preinstalled software	Microsoft Windows 95 wth applications (listed on right)	
Warranty	**1 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in	

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features
- PC Card Director 4.0
- Diskette Factory

1. Triton CoSession™ Host
2. Compuserv for Windows
3. NetFinity for Windows 95
4. Puma TranXit™

- Lotus SmartSuite 96 CD-ROM

Easy-Setup is entered by holding F1 when turning on.

810MB = DMA Mode 2 or PIO Mode 4
1.08GB = DMA Mode 2 or PIO Mode 4

The **Port Replicator and Charger** provide cable management, a battery charger for an optional second battery, a palm rest when installed on the system, and has complete port replication.

The Port Replicator can charge a battery whether or not a ThinkPad is connected to it. When the ThinkPad is attached to the Port Replicator, it will attempt to recharge the battery in ThinkPad first (if there is one) before charging the battery in the Port Replicator.

Port Replicator and Charger connectors:

- Serial (RS-232, 9 pin)
- Parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Diskette drive (26 pin)
- Game with MIDI support (15 pin)
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- DC input connector
- Spare battery connector (to charge 2nd battery)

Options for ThinkPad 365X:

- 8MB SO DIMM 3.3v NP EDO 64-bit	**92G7340**
- 16MB SO DIMM 3.3v NP EDO 64-bit	**92G7341**
- 32MB SO DIMM 3.3v NP EDO 64-bit	**92G7342**
- 810MB EIDE HDD 13ms	42H4012
- 1.08GB EIDE HDD 13ms	69H7956
- 1.4GB EIDE HDD 3L 12.5 mm	82H8161
- 2.1GB HDD 13ms	82H8175
- Port Replicator and Charger	75H7529
- NiMH Battery Pack	38H6304
- 35 watt AC Adapter (2 pin barrel)	85G6719
- 35 watt AC Adapter (slim, 2 pin)	76H0139
- 365X 4 x CD-ROM Drive	73H7225
- 8 x CD-ROM	83H6726

Fn + F2 = Battery guage
Fn + F3 = Standby
Fn + F4 = Suspend
Fn + F7 = LCD/CRT/Simultaneous
Fn + F11 = Power mgmt
Fn + F12 = Hibernation

Disk is not removable (like 755/760 systems), but it can be upgraded via a screwdriver

FEATURES OF 365 MODELS

Quick Setup Guide
LED indicator panel
Plug and Play 1.0a
Doze, standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
❍ = Removable

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No warranties are expressed or implied in this summary
(365X96) Compiled by Roger Dodson, IBM. May 1999

IBM ThinkPad 365XD - withdrawn

IBM® ThinkPad®:	**365XD** 10.4" SVGA DSTN / 10.4" SVGA TFT / 11.3" SVGA DSTN
Processor type	**Pentium® 100/66 or 120/60MHz** / 64-bit transfer to memory
Processor upgrade	None
L2 cache	None (not upgradeable)
Diskette drive	External 3.5" 1.44MB (connects to back of system) / enclosed in a case with a cable / use simultaneously with CD-ROM
External FDD port	External FDD port (works with standard external diskette; no kit reqd)
CD-ROM (not remove)	**5.25" CD-ROM / 4 x speed /** multi-session / XA / front loaded / ATAPI

Key differences between 365ED and 365XD:

365ED	365XD
5x86c 100/33MHz	Pentium 100, 120, 133
8MB fast page (to 24MB)	8MB EDO (to 40MB)
VL-Bus graphics and disk	PCI graphics and disk
10.4" VGA 640 x 480 LCD	10.4" or 11.3" SVGA
540MB disk standard	810MB, 1.08, 1.35GB
Phoenix BIOS	IBM BIOS

Price				
Type - model	⋊ 2625-6E3	⋊ 2625-DEF	⋊ 2625-DEE	⋊ 2625-EEF
Preload (see side)	**Windows 95**	**Windows 95**	**OS/2 Warp Connect**	**Windows 95**
Avail / withdrawn date	May 1996 / January 1997	May 96 / Jan 97	July 1996 / Jan 1997	June 1996 / April 1997
Pentium speed	**100/66MHz**	**120/60MHz**		**120/60MHz**
Disk - size / ms	**810MB** / 13ms ❍ / PIO Mode 4	**1.08GB** / 13ms ❍ / PIO Mode 4		**1.08GB** / 13ms ❍ / PIO Mode 4
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk			

Display - size and type	**10.4 inch DSTN color**	**10.4 inch TFT color**	**11.3 inch DSTN color**
Display - techology	**SVGA** / 640x480 or 800x600 **Dual scan** 256 sim colors / 25 to 1 contrast ratio	**SVGA** / 640x480 or 800x600 **Black Matrix TFT** - active matrix 65,536 sim col / 100 to 1 contrast ratio	**SVGA** / 640x480 or 800x600 **Dual scan** 256 sim colors / 30 to 1 contrast ratio

Graphics - controller	Trident™ CYBER9320 / 32-bit SVGA accelerator / 1MB fast page DRAM / 70ns
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024x768 w/ 256 colors
Gaphics - features	Simultaneous LCD and CRT / 180 degree tilt
Memory - std / max	**8MB** / 40MB
Memory - features	70ns / non-parity / 3.3 volt / EDO / 1 socket for one JEDEC 144 pin EDO SO DIMMs of 8, 16, or 32 MB
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions)
Keyboard slope	Yes (legs pop out)
Pointing / palm rest	**TrackPoint III**™ / external keyboard support (w/ option cable or Port Replicator)
Dimensions	11.7 x 8.3 x 1.9" (185 cubic inches)
Weight	6.4 pounds (2.9 kg)
Battery - type	NiMH / non-intelligent
Battery - life	2.5 hours
Charge time - on / off	1.5 hrs / 1.2 hrs

***Liftable (pop-up) keyboard* to access and remove battery (and upgrade memory and disk); CD-ROM is not removable**

Architecture	ISA (audio, PCMCIA, diskette, serial, parallel, infrared) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics)
Docking Station	None
Port replicator	Port Replicator and Charger (with built-in battery charger and palm rest)
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter 3 prong (35 watts) / Selectable boot
Video in/out	None
MPEG decoder	None
Data/fax modem	None
Audio support	**16-bit audio chip / 18 voice MIDI FM Synthesis / ESS1688** **One internal speaker / .5 watt / dial volume control / internal microphone**
Audio in/out jacks	Input jack (stereo) / microphone jack / output jack (stereo) / no joystick port
Infrared ports	**Infrared port in back / IrDA 1.0 compatible / up to 115Kbps**
Security	Power-on pwd / Hard disk pwd / Supervisor pwd / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / keyboard lock (requires Kensington)
Preinstalled software	Microsoft Windows 95 wth applications (listed on right)
Warranty	**1 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features
- PC Card Director 4.0
- Diskette Factory

1. Triton CoSession™ Host
2. Compuserv for Windows
3. NetFinity for Windows 95
4. Puma TranXit™

- Lotus SmartSuite 96 CD-ROM

OS/2 WARP CONNECT PRELOAD

- IBM OS/2 Warp Connect Version 3 with WIN-OS/2 with BonusPak applications
- Online User's Guide
- ThinkPad Features Program
- PC Card Director 4.0
- Diskette Factory

1. Puma TranXit™
2. NetFinity for OS/2
3. Triton CoSession™ Host

- Lotus SmartSuite 4.0 (entitled to SSuite 96)

The **Port Replicator and Charger** provide cable management, a battery charger for an optional second battery, a palm rest when installed on the system, and has complete port replication.

The Port Replicator can charge a battery whether or not a ThinkPad is connected to it. When the ThinkPad is attached to the Port Replicator, it will attempt to recharge the battery in ThinkPad first (if there is one) before charging the battery in the Port Replicator.

Port Replicator and Charger connectors:

- Serial (RS-232, 9 pin)
- Parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Diskette drive (26 pin)
- Game with MIDI support (15 pin)
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- DC input connector
- Spare battery connector (to charge 2nd battery)

Options for ThinkPad 365XD:

- 8MB SO DIMM 3.3v NP EDO 64-bit	**92G7340**
- 16MB SO DIMM 3.3v NP EDO 64-bit	**92G7341**
- 32MB SO DIMM 3.3v NP EDO 64-bit	**92G7342**
- 810MB EIDE HDD 13ms	42H4012
- 1.08GB EIDE HDD 13ms	69H7956
- 1.4GB EIDE HDD 3L 12.5 mm	82H8161
- 2.1GB HDD 13ms	82H8175
- Port Replicator and Charger	75H7529
- NiMH Battery Pack	38H6304
- 35 watt AC Adapter (2 pin barrel)	85G6719
- 35 watt AC Adapter (slim, 2 pin)	76H0139
- 8 x CD-ROM	83H6726

Fn + F2 = Battery guage
Fn + F3 = Standby
Fn + F4 = Suspend
Fn + F7 = LCD/CRT/Simultaneous
Fn + F11 = Power mgmt
Fn + F12 = Hibernation

Disk is not removable (like 755/760 systems), but it can be upgraded via a screwdriver

Easy-Setup is entered by holding F1 when turning on.

810MB = DMA Mode 2 or PIO Mode 4
1.08GB = DMA Mode 2 or PIO Mode 4

FEATURES OF 365 MODELS

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US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
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24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
❍ = Removable

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No warranties are expressed or implied in this summary
(365XD) Compiled by Roger Dodson, IBM. May 1999

IBM ThinkPad 365XD (Fall 1996+ models) - withdrawn

IBM® ThinkPad®:	⋋ **365XD** 10.4" SVGA TFT / 11.3" SVGA DSTN / 11.3" SVGA TFT - CD-ROM			
Processor type	**Pentium® 120/60 or 133/66MHz** / 64-bit transfer to memory			
Processor upgrade	None			
L2 cache	None (not upgradeable)			
Diskette drive	External 3.5" 1.44MB (connects to back of system) / enclosed in a case with a cable / use simultaneously with CD-ROM			
External FDD port	External FDD port (works with standard external diskette; no kit required)			
CD-ROM (not remove)	**5.25" CD-ROM / 4 x speed**	**5.25" CD-ROM / 6 x speed** (all systems upgradeable to 8 x CD-ROM)		
CD-ROM features	Multi-session / XA / front loaded / ATAPI / not bootable / upgradeable			
Type - model (code)	2625-4E9 (Clark 4)	2625-GE9 (Clark 4.5)	2625-1E9 (Clark 4)	2625-FE9 (Clark 4.5)
Preload (see side)	**Windows 95**	**Windows 95 OSR2**	**Windows 95**	**Windows 95 OSR2**
Avail / withdrawn date	October 1996 / July 1997	Feb 1997 / July 1997	October 1996 / October 1997	February 1997 / October 1997
Pentium speed	**120/60MHz**	**120/60MHz**	**133/66MHz**	**133/66MHz**
Disk - size / ms	**810MB** / 13ms ❍	**1.08GB** / 13ms ❍	**1.35 GB** / 13ms ❍ / PIO Mode 4	
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk			
Display - size and type	**10.4 inch TFT color**		**11.3 inch TFT color**	**11.3 inch DSTN color**
Display - techology	**SVGA** / 640x480 or 800x600 **Black Matrix TFT** - active matrix 65,536 sim col / 100 to 1 contrast ratio		**SVGA** / 640x480 or 800x600 **Black Matrix TFT** - active matrix 65,536 sim col / 100 to 1 cont ratio	**SVGA** / 640x480 or 800x600 Dual scan 256 sim colors / 30 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9320 / 32-bit SVGA accelerator / 1 MB fast page DRAM / 70 ns			
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024x768 w/ 256 colors			
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt			
Memory - std / max	**8MB** / 40MB			
Memory - features	70ns / non-parity / 3.3 volt / EDO / 1 socket for one JEDEC 144 pin EDO SO DIMMs of 8, 16, or 32 MB			
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions)			
Keyboard slope	Yes (legs pop out)			
Pointing / palm rest	**TrackPoint III**™ / external keyboard support (w/ option cable or Port Replicator)			
Dimensions	11.7 x 8.3 x 1.9" (185 cubic inches)			
Weight	6.4 pounds (2.9 kg)	6.1 pounds (2.77 kg)	6.2 pounds (2.79 kg)	
Battery - type	NiMH / non-intelligent	***Liftable (pop-up) keyboard* to access and remove battery (and upgrade memory and disk); CD-ROM is not removable**		
Battery - life	2.0 hours			
Charge time - on / off	1.5 hrs / 1.2 hrs			
Architecture	ISA (audio, PCMCIA, diskette, serial, parallel, infrared) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics)			
Docking Station	None			
Port replicator	Port Replicator and Charger (with built-in battery charger and palm rest)			
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III			
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)			
Other features	APM-aware BIOS / Universal AC adapter 3 prong (35 watts) / Selectable boot			
Video in/out	None			
MPEG decoder	None			
Data/fax modem	None			
Audio support	**16-bit audio chip / 18 voice MIDI FM Synthesis / ESS1688** **One internal speaker / .5 watt / dial volume control / internal microphone**			
Audio in/out jacks	Input jack (stereo) / microphone jack / output jack (stereo) / no joystick port			
Infrared ports	**Infrared port in back / IrDA 1.0 compatible / up to 115Kbps**			
Security	Power-on pwd / Hard disk pwd / Supervisor pwd / Security keyhole (requires cable) / keyboard lock (requires cable)			
Preinstalled software	Microsoft Windows 95 wth applications (listed on right)			
Warranty	**1 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in			

WINDOWS 95 PRELOAD MODELS 4E9 and 1E9

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features Program
- PC Card Director 4.0
- Diskette Factory

1. Triton CoSession™ Host
2. Compuserv for Windows
3. NetFinity for Windows 95
4. Puma TranXit™

- Lotus SmartSuite 96 CD-ROM

WINDOWS 95 PRELOAD MODELS GE9 and FE9

- Microsoft Windows 95 OSR2
- Online User's Guide
- ThinkPad Features Program
- PC Card Director 4.0
- Diskette Factory

1. Triton CoSession™ Host
2. Compuserv for Windows
3. NetFinity for Windows 95
4. Puma TranXit™
5. IntelliLink Connect
6. IBM Anti-Virus
7. IGN/Netscape Internet
8. IntelliQuest Registration Mailer
9. Ergonomics

- Lotus SmartSuite 96 CD-ROM

The **Port Replicator and Charger** provide cable management, a battery charger for an optional second battery, a palm rest when installed on the system, and has complete port replication.

The Port Replicator can charge a battery whether or not a ThinkPad is connected to it. When the ThinkPad is attached to the Port Replicator, it will attempt to recharge the battery in ThinkPad first (if there is one) before charging the battery in the Port Replicator.

Port Replicator and Charger connectors:

- Serial (RS-232, 9 pin)
- Parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Diskette drive (26 pin)
- Game with MIDI support (15 pin)
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- DC input connector
- Spare battery connector (to charge 2nd battery)

Options for ThinkPad 365XD:

- 8MB SO DIMM 3.3v NP EDO 64-bit	**92G7340**
- 16MB SO DIMM 3.3v NP EDO 64-bit	**92G7341**
- 32MB SO DIMM 3.3v NP EDO 64-bit	**92G7342**
- 810MB EIDE HDD 13ms	42H4012
- 1.08GB EIDE HDD 13ms	69H7956
- 1.4GB EIDE HDD 3L 12.5 mm	82H8161
- 2.1GB HDD 13ms	82H8175
- Port Replicator and Charger	75H7529
- NiMH Battery Pack	38H6304
- 35 watt AC Adapter (2 pin barrel)	85G6719
- 35 watt AC Adapter (slim, 2 pin)	76H0139
- 8 x CD-ROM	83H6726
- 2.1GB HDD 13ms 4000 rpm	82H8175

Fn + F2 = Battery guage
Fn + F3 = Standby
Fn + F4 = Suspend
Fn + F7 = LCD/CRT/Simultaneous
Fn + F11 = Power mgmt
Fn + F12 = Hibernation

Disk is not removable (like 755/760 systems), but it can be upgraded via a screwdriver

Easy-Setup is entered by holding F1 when turning on.

810MB = DMA Mode 2 or PIO Mode 4
1.08GB = DMA Mode 2 or PIO Mode 4
1.35GB = DMA Mode 2 or PIO Mode 4

FEATURES OF 365 MODELS

Quick Setup Guide
LED indicator panel
Plug and Play 1.0a
Doze, standby, suspend, safe suspend, and hibernation modes
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ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
❍ = Removable

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No warranties are expressed or implied in this summary
(365XD96) Compiled by Roger Dodson, IBM. May 1999

IBM ThinkPad 370C (non-US) - withdrawn

IBM® ThinkPad®:	⋊ 370C TFT color
Processor type	**IntelDX4**
Processor speed	**75/25 MHz** / 3.3 volt
Memory cache	16 KB internal (no L2 cache)
Coprocessor socket	Integrated in DX4
Processor / L2 upgrade	None
Removable diskette	3.5" 1.44 MB ❍ / supports internal 2.88 MB diskette
Removable CD-ROM	None

ThinkPad 370C is positioned between the ThinkPad 360 and ThinkPad 755 family

Advantages over ThinkPad 360CE

- **DX4 75/25 MHz** (vs DX2 50/25)
- **10.4" color TFT** (vs 8.4" color TFT)
- **Black Matrix TFT** (vs not Black Matrix)
- **36 MB max mem** (vs 20 MB max memory)

Price		
Type - model	9545-QPC	9545-QPD
Removable disk - size	**340 MB** ❑ ❍	**540 MB** ❑ ❍
Hard drive - speed	14 ms	14 ms
Available date	May 1995	May 1995
Withdrawn date	May 1996	May 1996

4 MB DIMM w/ Parity	84G2152
8 MB DIMM w/ Parity	84G6539
16 MB DIMM w/ Parity	84G2153
4 MB IC DRAM 70 ns Parity	92G7232
8 MB IC DRAM 70 ns Parity	92G7233
16 MB IC DRAM 70 ns Parity	92G7234
4 MB IC DRAM 70 ns non-Parity	92G7236
8 MB IC DRAM 70 ns non-Parity	92G7237
16 MB IC DRAM 70 ns non-Parity	92G7424

ALL 370C MODELS

***Liftable (pop-up) keyboard* to access and remove diskette drive, disk, battery, and memory**

Display - type	**VGA color** / 640 x 480
Display - colors	256 simultaneous colors
Display - techology	**Black Matrix TFT** - active matrix
Display - diagonal size	**10.4 inch** / 100 to 1 contrast ratio / 180 degree tilt
Graphics - controller	WD90C24A Rev B with 1 MB DRAM
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 with 256 colors (up to 75 Hz)
Graph - arch/data path	VL-Bus local bus / 32 bit / Simultaneous LCD and CRT
Memory - std / max	4 MB / 36 MB 70 ns / non-parity / 5 volt
Mem - sockets empty	1 socket
Mem - options available	2, 4, 8, 16 MB ICs or 4, 8, 16 MB DIMMs that work on optional Memory Module Adapter
Keyboard / # of keys	Full size alp/num / 85 keys
Fn key functions	8 (in any appl)
Keyboard slope	Yes (legs pop out)
Mouse/pointing	**TrackPoint II**™
Ext keyboard support	Yes (with optional cable)
Dimensions	11.7 x 8.3 x 2.0"
Cubic inches	194 inches
Color	Black
Weight (with battery)	6.3 pounds
Battery - type	Nickel hydride (NiMH) / intelligent
Batt - life (per battery)	2.9 to 8 hours
Charge time - on / off	2 hrs / 1.5 hr
Architecture	AT bus (ISA)
Docking Station	Dock I and II
Port replicator	Port Replicator I and II
PCMCIA™ 2.1 slots	**2 Type I or 2 Type II or 1 Type III**
Serial / parallel ports	Yes (one 9 pin) 16550B / Yes (EPP)
Other features	APM-aware BIOS / Selectable boot AC adapter, 35 watts, worldwide, 3 pin, not wallmount
Audio support	Audio beep only
Security	Power-on password / Hard disk password / Supervisor Password / Hardware security loop (secures unit and prevents opening keyboard) / PCMCIA card lock / Optional Security Base
Preinstalled software	IBM DOS 7.0, Windows™ 3.11, and all appls listed to right:
Warranty	1 year - ThinkPad EasyServ only
Warranty options	Onsite via special bid only

The removed diskette drive can be used externally via the optional 'FDD External Kit' (includes cable and enclosure) to the Port Replicator Model I and II and Dock I and II.

Diskette drive can be removed

① to reduce weight
② to insert cellular modem (CDPD)
③ to insert TV Tuner (for on screen TV and VCR playback)
④ to insert 2.88 MB diskette
⑤ to add other third party options

Memory upgraded via
① 1 open socket for IC memory card for 20 MB max or
② DIMM technology for max of 36 MB with 4, 8, or 16 MB JEDEC 72 pin SO DIMMs on optional Memory Module Adapter

Fn key functions:
- Fuel guage (battery)
- Standby mode
- Suspend mode
- Audio beep on
- Audio beep off
- LCD or CRT or both
- Power mode switching
- Hibernation mode

PREINSTALLED APPLICATIONS

- IBM PC DOS 7.0
- Windows 3.11
- IBM PC Card Director for PCMCIA
- IBM ThinkPad Demo
- Online Users Guide
- ThinkPad features; Diskette Factory

1. Lotus® cc:Mail, for the IBM Global® network,
2. Lotus Organizer 1.12
3. Lotus ScreenCam 1.0,
4. Official Airline Guide Flight Disk® 1.0
5. Triton CoSession™ Host,
6. PRODIGY®,
7. SofNet FaxWorks™ 3.0
8. Farallon® Replica™
9. AlphaNet™ FollowFax™
10. Sedona REPRINT™
11. COMPEL™ Personal Edition
12. Video for Windows™ 1.1 Runtime

The ThinkPad 370 family has the same physical design as the ThinkPad 360, 750, and 755 family.

PC Card Director™ (EasyPlaying) is preinstalled and on the utility diskette for DOS, Windows and OS/2. It provides:

① automatic config of many PCMCIA cards;
② visual/audible confirmation of insertion/removal of cards;
③ ability to automatically launch an appl (e.g. async emulation) when card inserted;
④ status and info on PCMCIA cards installed.

Easy-Setup is entered by holding F1 when turning on. Easy-Setup, BIOS, and diagnostics are located in flash memory.

ThinkPad 370C supported batteries:

- 750 NiMH battery	66G2846
- 750 Quick Charger	66G2843

Compatible in all 360 family, 370 family, 750 family, and 755 family:

- Disks:	170 MB IDE	66G2847
	250 MB IDE	84G2391
	340 MB IDE	66G2849
	540 MB IDE	84G2150
	810 MB IDE	84G8250
	1.2 GB IDE	85G8562
- Dock I	(1 slot / 1 bay)	3545001
- Dock II	(2 slot / 2 bay)	3546001
- Port Replicator I (w/ PCMCIA)		66G3510
- Port Replicator II		66G3520
- 1.44 MB diskette		std in newer
- 2.88 MB diskette		66G0108

Options for 370C:

- TV Tuner	66G3689
- CDPD Mobile module	71G2560
- Car Battery Adapter	49G2167
- FDD External Attachment Kit	66G3618

IC DRAM memory from ThinkPad 700, 720, 750, and 755 will work but without parity

FEATURES OF 370C FAMILY

3 power saving modes: standby, suspend, and hibernation
Personalized nameplate in molded indentation
External VGA is ISO capable (75 Hz)
Upgradeable disks: 170 MB, 250 MB, 340MB, 540 MB, 810 MB, 1.2 GB (all 2.5 inch)
Battery life indicator
Non-disruptive battery exchange
US EPA Energy Star compliant

HELPWARE

International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, and electronic support
IBM or dealer warranty/service
Online Housecall (remote diagnostics)
30 day money back guarantee

ThinkPad EasyServ™: customer calls 1-800-565-3344 in Canada, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).

❑ = Upgradeable; ❍ = Removable; ⋊ = withdrawn from marketing

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No warranties are expressed or implied in this summary

(370) Compiled by Roger Dodson, IBM. June 1996

IBM ThinkPad 380 - withdrawn

IBM® ThinkPad®:	**380** 12.1" SVGA DSTN
Processor type	**Pentium® 150/60 MHz** / 64 bit transfer to L2 cache / 64 bit transfer to memory
Processor upgrade	None
L2 cache	**256 KB** / write-through / direct mapped / 8 ns / synchronous pipelined burst
Diskette drive	Internal 3.5" 1.44 MB / use simultaneously with CD-ROM / on right side
External FDD port	None since diskette internal
CD-ROM	None standard / 8 x CD-ROM internal option available (not customer install)
Type - model (code)	**2635-10U**
Preload (see side)	**Windows 95 OSR2**
Avail / withdrawn date	May 1997 / January 1998
Pentium speed	**150/60 MHz**
Disk - size / ms	**1.08 GB** / 13 ms / PIO Mode 4
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / not removeable / upgrade only by IBM or dealer
Display - size and type	**12.1 inch DSTN color**
Display - techology	**SVGA** / 640 x 480 or 800 x 600 **Dual scan** 65,536 simultaneous colors / 30 to 1 contrast
Graphics - controller	**NeoMagic™ MagicGraph128ZV™** (NM2093) /128 bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B 1.125 MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw
Graph - arch/data path	PCI 2.1 / 32 bit / external SVGA to 1024 x 768 with 256 colors
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt
Memory - std / max	**16 MB** / 80 MB / non-parity / 3.3 volt / EDO
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64 MB / socket accessed from bottom via screw
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator
Pointing / palm rest	TrackPoint III™ / no drag lock keys
Dimensions	11.8 x 9.2 x 2.4" (260 cubic inches)
Weight	6.6 pounds (2.96 kg)
Battery - type / life	NiMH / non-intelligent / 2.2 hrs
Charge time - on / off	3.5 to 10 hrs / 2.8 hrs
Architecture	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, PCMCIA, Port Replicator) ISA (audio, diskette, serial, parallel, infrared) Intel® Mobile Triton 82430 PCIset / Intel 82371MX PIIX / NS PC87338
Docking Station	None
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator, ③ ThinkPad 380/385 Port Replicator
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III **/ Zoomed Video support in lower slot** / PCMCIA 2.1 compatible / PC Card Standard 95 / Cirrus Logic CL-PD6729 (PCI)
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Univers AC adapter, barrel (35 watts) / Selectable boot
Video in/out	None
Data/fax modem	None
Audio support	**16 bit audio chip /** 20 voice MIDI FM Synthesis / Crystal Semiconductor™ CS4236 One internal speaker / .5 watt / dial volume control / internal mic / full duplex
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port
Infrared ports	**Infrared port on left side / IrDA 1.1 compatible / up to 4 Mbps**
Security	Power-on password / Hard disk password / security keyhole
Preinstalled software	Microsoft Windows 95 OSR2 wth applications (listed on right)
Warranty	**1 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in
Service options	On-site, M-F, 8-5, next bus day (71 cities) / warranty extension to 3 or 5 years

All-in-one integration means the disk, diskette drive, and CD-ROM are all within the covers of the notebook; keyboard does not lift up

WINDOWS 95 PRELOAD

- Microsoft Windows 95 OSR2 (FAT16)
- Online User's Guide
- ThinkPad Features Program
- SystemSoft CardWorks™
- Diskette Factory and Utilities

1. Triton CoSession™ Host
2. NetFinity for Windows 95
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4. IntelliLink Connect
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6. IGN/Netscape Navigator browser
7. Media Player
8. IntelliQuest Registration Mailer
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10. Lotus Organizer
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12. Marketing Demo

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- Recovery CD-ROM with boot diskette
- Windows 95 CD-ROM (no installation)

Fn + F2 = Battery guage
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Fn + F4 = Suspend
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Fn + F11 = Power mgmt
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Easy-Setup is entered by holding F1 when turning on.

1.08 GB = DMA Mode 2 or PIO Mode 4
1.35 GB = DMA Mode 2 or PIO Mode 4
2.1 GB = DMA Mode 2 or PIO Mode 4
3.2 GB = Ultra DMA/33 or PIO Mode 4
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The **ThinkPad Enhanced Port Replicator** provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:

- Dual IBM lock slots to secure the ThinkPad 380, PC Cards, and Port Replicator

Port Replicator connectors:
- USB
- Serial (9 pin); parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- External diskette drive conntr - not on system
- Power connector (requires AC power; can not run on battery)

Features of the PC Card slots:
- Two Type III slots (side by side)
- PC Card Standard 95 compliant
- CardBus compliant (PCI 2.1 / 32 bit)
- 8/16 bit PC Card support (no Zoomed Video)
- Texas Instruments PCI1131 controller
- Requires no PCI-to-PCI bridge

Options for ThinkPad 380:

- 8 MB SO DIMM 3.3v NP EDO 64 bit	**92G7340**
- 16 MB SO DIMM 3.3v NP EDO 64 bit	**92G7341**
- 32 MB SO DIMM 3.3v NP EDO 64 bit	**92G7342**
- 64 MB SO DIMM 3.3v NP EDO 64 bit	**76H0268**
- ThinkPad 560 Port Replicator	46H4209
- ThinkPad 380/385 Port Replicator	84G1316
- ThinkPad Enhanced Port Replicator	11J8997
- Li-Ion Battery Pack	73H9793
- 35 watt AC Adapter (slim, barrel)	76H0139
- 8 x CD-ROM	73H9795
- 2.1 GB HDD 13 ms	73H9797
- 3.2 GB Disk 13 ms	02K0487
- 5.1 GB Disk 12 ms	02K0506
- 33.6 Kbps Modem with XJACK	55H6759
- 56K PC Card Modem Kit	04K0052

FEATURES OF 380 MODELS

Quick Setup Guide
System Status Indicators
Plug and Play 1.0a
Standby, suspend, safe suspend (RediSafe), and hibernation modes
US EPA Energy Star compliant
Personalization screen at startup
International Warranty Service
IBM SystemXtra Program
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.

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No warranties are expressed or implied in this summary
(380) Compiled by Roger Dodson, IBM. December 1997

IBM ThinkPad 380D - withdrawn

IBM® ThinkPad®:	⋊ 380D 12.1" SVGA DSTN or TFT / 8 x CD-ROM		
Processor type	**Pentium® 150/60 MHz or 150/60 MHz with MMX™ technology**/ 64 bit transfer to L2 cache / 64 bit transfer to memory		
Processor upgrade	None		
L2 cache	**256 KB** / write-through / direct mapped / 8 ns / synchronous pipelined burst		
Diskette drive	Internal 3.5" 1.44 MB / use simultaneously with CD-ROM / on right side		
External FDD port	None since diskette internal		
CD-ROM	**5.25" CD-ROM / 8 x speed /** multi-session / XA / ATAPI / not bootable / not removable / on right side		
Type - model (code)	**2635-2AU**	**2635-3AU**	**All-in-one integration means the disk, diskette drive, and CD-ROM are all within the covers of the notebook; keyboard does not lift up**
Preload (see side)	**Windows 95 OSR2**	**Windows 95 OSR2**	
Avail / withdrawn date	May 1997 / January 1998	May 1997 / January 1998	
Pentium speed	**150/60 MHz**	**150/60 MHz with MMX technology**	
Disk - size / ms	**1.35 GB** / 13 ms / PIO Mode 4	**2.1 GB** / 13 ms / PIO Mode 4	
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / not removeable / upgrade only by IBM or dealer		
Display - size and type	**12.1 inch DSTN color**	**12.1 inch TFT color**	
Display - techology	**SVGA** / 640 x 480 or 800 x 600 **Dual scan** 65,536 sim colors / 30 to 1 contrast	**SVGA** / 640 x 480 or 800 x 600 **Black Matrix TFT** - active matrix 65,536 simultaneous colors / 100 to 1 contrast ratio ratio	
Graphics - controller	**NeoMagic™ MagicGraph128ZV™** (NM2093) /128 bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B 1.125 MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw		
Graph - arch/data path	PCI 2.1 / 32 bit / external SVGA to 1024 x 768 with 256 colors		
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt		
Memory - std / max	**16 MB** / 80 MB / non-parity / 3.3 volt / EDO		
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64 MB / socket accessed from bottom via screw		
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator		
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator		
Pointing / palm rest	TrackPoint III™ / no drag lock keys		
Dimensions	11.8 x 9.2 x 2.4" (260 cubic inches)		
Weight	7.1 pounds (3.2 kg)	6.9 pounds (3.1 kg)	
Battery - type / life	NiMH / non-intelligent / 2.0 hrs	Li-Ion / non-intelligent / 2.6 hrs	
Charge time - on / off	3.5 to 9 hrs / 2.5 to 3.5 hrs		
Architecture	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, PCMCIA, Port Replicator) ISA (audio, diskette, serial, parallel, infrared) Intel® Mobile Triton 82430 PCIset / Intel 82371MX PIIX / NS PC87338		
Docking Station	None		
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator, ③ ThinkPad 380/385 Port Replicator		
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III **/ Zoomed Video support in lower slot /** PCMCIA 2.1 compatible / PC Card Standard 95 / Cirrus Logic CL-PD6729 (PCI)		
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	APM-aware BIOS / Univers AC adapter, barrel (35 watts) / Selectable boot		
Video in/out	None		
Data/fax modem	None		
Audio support	**16 bit audio chip /** 20 voice MIDI FM Synthesis / Crystal Semiconductor™ CS4236 One internal speaker / .5 watt / dial volume control / internal mic / full duplex		
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port		
Infrared ports	**Infrared port on left side / IrDA 1.1 compatible / up to 4 Mbps**		
Security	Power-on password / Hard disk password / security keyhole		
Preinstalled software	Microsoft Windows 95 OSR2 wth applications (listed on right)		
Warranty	**1 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in		
Service options	On-site, M-F, 8-5, next bus day (71 cities) / warranty extension to 3 or 5 years		

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- Audio out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- External diskette drive conntr - not on system
- Power connector (requires AC power; can not run on battery)

Features of the PC Card slots:
- Two Type III slots (side by side)
- PC Card Standard 95 compliant
- CardBus compliant (PCI 2.1 / 32 bit)
- 8/16 bit PC Card support (no Zoomed Video)
- Texas Instruments PCI1131 controller
- Requires no PCI-to-PCI bridge

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- 32 MB SO DIMM 3.3v NP EDO 64 bit	**92G7342**
- 64 MB SO DIMM 3.3v NP EDO 64 bit	**76H0268**
- ThinkPad 560 Port Replicator	46H4209
- ThinkPad 380/385 Port Replicator	84G1316
- ThinkPad Enhanced Port Replicator	11J8997
- Li-Ion Battery Pack	73H9793
- 35 watt AC Adapter (barrel, slim)	76H0139
- 8 x CD-ROM	73H9795
- 2.1 GB HDD 13 ms	73H9797
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(380D) Compiled by Roger Dodson, IBM. December 1997

IBM ThinkPad 380E - withdrawn

IBM® ThinkPad®:	**380E** 12.1" SVGA FRSTN
Processor type	**Pentium® MMX 150/60 MHz** / 64 bit transfer to L2 cache / 64 bit transfer to memory
Processor upgrade	None
L2 cache	**256 KB** / write-through / direct mapped / 8 ns / synchronous pipelined burst
Diskette drive	Internal 3.5" 1.44 MB / on right side
External FDD port	None since diskette internal
CD-ROM	None standard / internal 8 x CD-ROM option available (not customer install)
Type - model (code)	**2635-40U**
Preload (see side)	**Windows 95 OSR2**
Avail / withdrawn date	September 1997 / July 1997
Disk - size / ms	**2.1 GB** / 13 ms / PIO Mode 4
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / not removeable / upgrade only by IBM or dealer
Display - size and type	**12.1 inch FRSTN color**
Display - techology	**SVGA** / 640 x 480 or 800 x 600 **Dual scan** / Fast Response Super Twisted Nematic (FRSTN) / 150 ms / 70 nits 65,536 simultaneous colors / 35 to 1 contrast ratio
Graphics - controller	**NeoMagic™ MagicGraph128ZV™** (NM2093) /128 bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B 1.125 MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw
Graph - arch/data path	PCI 2.1 / 32 bit / external SVGA to 1024 x 768 with 256 colors
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt
Memory - std / max	**16 MB** / 80 MB / non-parity / 3.3 volt / EDO
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64 MB / socket accessed from bottom via screw
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator
Pointing / palm rest	TrackPoint III™ / no drag lock keys
Dimensions	11.8 x 9.2 x 2.4" (260 cubic inches)
Weight	6.7 pounds (3.0 kg)
Battery - type / life	NiMH / non-intelligent / 2.0 hrs
Charge time - on / off	3.5 to 10 hrs / 2.8 hrs
Architecture	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, PCMCIA, Port Replicator) ISA (audio, diskette, serial, parallel, infrared) Intel® Mobile Triton 82430 PCIset / Intel 82371MX PIIX / NS PC87338
Docking Station	None
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator, ③ ThinkPad Enhanced Port Replicator
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III **/ Zoomed Video support in lower slot** / PCMCIA 2.1 compatible / PC Card Standard 95 / Cirrus Logic CL-PD6729 (PCI)
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter; barrel (35 or 56 watts)
Video in/out	None
MPEG decoder	None (software support for MPEG-1 in Windows 95)
Data/fax modem	None
Audio support	**16 bit audio chip /** 20 voice MIDI FM Synthesis / CS4236B One internal speaker / .5 watt / dial volume control / int mic / full duplex spk/mic
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port
Infrared ports	**Infrared port on left side / IrDA 1.1 compatible / up to 4 Mbps**
Security	Power-on password / Hard disk password / security keyhole / personalization
Preinstalled software	Microsoft Windows 95 OSR2 wth applications (listed on right)
Warranty	**1 year** - ThinkPad EasyServ (depot repair service) or carry-in
Service options	On-site, M-F, 8-5, next bus day (71 cities) / warranty extension to 3 or 5 years

All-in-one integration means the disk, diskette drive, and CD-ROM are all within the covers of the notebook; keyboard does not lift up

WINDOWS 95 PRELOAD

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3.0 GB = DMA Mode 2 or PIO Mode 4
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The **ThinkPad Enhanced Port Replicator** provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:

- Dual IBM lock slots to secure the ThinkPad 380, PC Cards, and Port Replicator

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- USB
- Serial (9 pin); parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- External diskette drive conntr - not on system
- Power connector (requires AC power; can not run on battery)

Features of the PC Card slots:
- Two Type III slots (side by side)
- PC Card Standard 95 compliant
- CardBus compliant (PCI 2.1 / 32 bit)
- 8/16 bit PC Card support (no Zoomed Video)
- Texas Instruments PCI1131 controller
- Requires no PCI-to-PCI bridge

OPTIONS

- 8 MB SO DIMM 3.3v NP EDO 64 bit	**92G7340**
- 16 MB SO DIMM 3.3v NP EDO 64 bit	**92G7341**
- 16 MB SO DIMM NP EDO 64 bit (new)	**01K1124**
- 32 MB SO DIMM 3.3v NP EDO 64 bit	**92G7342**
- 64 MB SO DIMM 3.3v NP EDO 64 bit	**76H0268**
- ThinkPad 560 Port Replicator	46H4209
- ThinkPad 380/385 Port Replicator	84G1316
- ThinkPad Enhanced Port Replicator	11J8997
- ThinkPad 380/385 Li-Ion Battery (old)	73H9793
- ThinkPad 380/385 Li-Ion Battery	02K6507
- 35 watt AC Adapter (barrel, slim)	76H0139
- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- 8 x CD-ROM	73H9795
- 2.1 GB Disk 13 ms	73H9797
- 3.2 GB Disk 13 ms	02K0487
- 5.1 GB Disk 12 ms	02K0506
- 33.6 Kbps Modem with XJACK	55H6759
- 56K PC Card Modem Kit	04K0052
- 56K PC Card Modem/Cellular Capable	02K4196

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(380E) Compiled by Roger Dodson, IBM. June 1998

IBM ThinkPad® 380ED - withdrawn

IBM® ThinkPad®

Processor type	**Pentium® MMX™ 166/66MHz**[1] / 64-bit transfer to L2 cache / 64-bit transfer to memory		**All-in-one integration means the disk, diskette drive, and CD-ROM are all within the covers of the notebook; keyboard does not lift up**
Processor upgrade	None		
L2 cache	**256KB** / write-through / direct mapped / 8ns / synchronous pipelined burst		
Diskette drive	Internal 3.5" 1.44MB / use simultaneously with CD-ROM / on right side		
External FDD port	None since diskette internal		
CD-ROM	**5.25" CD-ROM / 20X-8X**[5] **speed /** CAV / multi-session / XA / ATAPI / not bootable / not removable / on right side		
Type - model	⋊ **2635-5AU**	⋊ **2635-6AU**	⋊ **2635-7AU**
Preload (see side)	**Windows 95 OSR2**	**Windows 95 OSR2**	**Windows 95 OSR2**
Avail / withdrawn date	September 1997 / September 1998	September 1997 / September 1998	September 1997 / September 1998
Disk - size / ms	**2.1GB**[4] / 13ms / PIO Mode 4	**3.0GB** / 13ms / PIO Mode 4	**5.1GB** / 12ms / PIO Mode 4
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / not removeable / upgrade only by IBM or dealer		
Display - size and type	**12.1 inch FRSTN color**	**12.1 inch TFT color**	
Display - techology	**SVGA** / 640x480 or 800x600 **Dual scan** / FRSTN / 150ms / 70 nits 65,536 sim colors / 35 to 1 contrast	**SVGA** / 640x480 or 800x600 **Active Matrix TFT** / 75ms / 100 nits 65,536 simultaneous colors / 100 to 1 contrast ratio ratio	
Graphics - controller	**NeoMagic™ MagicGraph128ZV™** (NM2093) /128-bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B 1.125MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw		
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024 x 768 with 256 colors		
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt		
Memory - std / max	**16MB** / 80MB / non-parity / 3.3 volt / EDO		
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64MB / socket accessed from bottom via screw		
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator		
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator		
Pointing / palm rest	TrackPoint® III / no drag lock keys		
Dimensions	11.8 x 9.2 x 2.4" (260 cubic inches)		
Weight[2]	7.0 pounds (3.2 kg)		
Battery - type / life[10]	Li-Ion / non-intelligent / 2.0 hrs	Li-Ion / non-intelligent / 2.5 hrs	
Charge time - on / off	4.2 to 12 hrs / 3.3 hrs		
Architecture	PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, Port Replicator) ISA (audio, diskette, serial, parallel, infrared) Intel® Mobile Triton 82430 PCIset / Intel 82371MX PIIX / NS PC87338		
Docking Station	None		
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Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	APM-aware BIOS / Universal AC adapter; barrel (35 or 56 watts)		
Video in/out	None		
MPEG decoder	None (software support for MPEG-1 in Windows 95)		
Data/fax modem	None		
Audio support	**16-bit audio** / 20 voice MIDI FM Synthesis / Crystal Semiconductor™ CS4236B One internal speaker / .5 watt / dial volume control / int mic / full duplex spk/mic		
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port		
Infrared ports	**Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps**		
Security	Power-on password / Hard disk password / security keyhole / personalization		
Preinstalled software	Microsoft® Windows® 95 OSR2 wth applications (listed on right)		
Limited warranty[11]	**1 year** - ThinkPad EasyServ (door-to-door depot repair service) or carry-in		
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- Audio in (3.5 mm)
- Audio out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- External diskette drive conntr - not on system
- Power connector (requires AC power; can not run on battery)

Features of the PC Card slots:
- Two Type III slots (side by side)
- PC Card Standard 95 compliant
- CardBus compliant (PCI 2.1 / 32-bit)
- 8/16-bit PC Card support (no Zoomed Video)
- Texas Instruments PCI1131 controller
- Requires no PCI-to-PCI bridge

OPTIONS

- 8MB SO DIMM 3.3v NP EDO 64-bit	**92G7340**
- 16MB SO DIMM 3.3v NP EDO 64-bit	**92G7341**
- 16MB SO DIMM NP 64-bit (new)	**01K1124**
- 32MB SO DIMM 3.3v NP EDO 64-bit	**92G7342**
- 64MB SO DIMM 3.3v NP EDO 64-bit	**76H0268**
- ThinkPad 560 Port Replicator	46H4209
- ThinkPad 380/385 Port Replicator	84G1316
- ThinkPad Enhanced Port Replicator	11J8997
- ThinkPad 380/385 Li-Ion Battery (old)	73H9793
- ThinkPad 380/385 Li-Ion Battery	02K6507
- 35 watt AC Adapter (barrel; slim)	76H0139
- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- 8X CD-ROM	73H9795
- 2.1GB Disk 13ms	73H9797
- 3.2GB Disk 13ms	02K0487
- 5.1GB Disk 12ms	02K0506
- 33.6Kbps Modem with XJACK	55H6759
- 56K PC Card Modem Kit	04K0052

FEATURES

Quick Setup Guide
System Status Indicators
Plug and Play 1.0a
Standby, suspend, safe suspend (RediSafe), and hibernation modes
ENERGY STAR compliant
Personalization screen at startup
International Warranty Service[14]
IBM SystemXtra™
24 hour / 7 day telephone[30]**, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support**
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad in most North American locations, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround)
⋊ Withdrawn from marketing

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IBM ThinkPad® 380XD - withdrawn

IBM® ThinkPad®

Processor type	**Intel® Pentium® MMX™ 233/66 or 266/66MHz**[1] / 64-bit to L2 cache and memory			***All-in-one integration means the disk, diskette drive, and CD-ROM are all within the covers of the notebook; removable disk; keyboard does not lift up***
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Intel Mobile Module			
L2 cache	**512KB** / write-through / direct mapped / 8.5ns data; 15ns tag / sync pipelined burst			
Diskette drive	Internal 3.5" 1.44MB / use simultaneously with CD-ROM / on right side			
External FDD port	None since diskette internal			
CD-ROM	**5.25" CD-ROM / 24X-10X**[5] **speed /** CAV / multi-session / XA / ATAPI / bootable / not removable / on right side			
Type - model	**2635-8AU**	**2635-BAU** (Auth Assb Prog)	**2635-9AU**	**2635-AAU**
Processor	**233/66MHz**	**233/66MHz**	**233/66MHz**	**266/66MHz**
Preload (see side)	**Windows 95 OSR2**	**None**	**Windows 95 OSR2**	**Windows 95 OSR2**
Avail / withdrawn date	March 1998 / September 1998	March 1998 / Sept 1998	March 1998 / Sept 1998	March 1998 / Sept 1998
Disk - size / ms	**3.2GB**[4] / 13ms / PIO Mode 4	**Blank**	**4.0GB** / 13ms / PIO 4	**5.1GB** / 12ms / PIO Mode 4
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / disk can be removed and upgraded by customer			
Display - size and type	**12.1 inch HPA color**	**12.1 inch TFT color**		
Display - techology	**SVGA** / 640x480 or 800x600	**SVGA** / 640x480 or 800x600		
	Dual scan / HPA / 150ms / 100 nits	**Active Matrix TFT** / 75ms / 100 nits		
	16 mil sim colors / 50 to 1 contrast	**16.7 million** simultaneous colors / 100 to 1 contrast ratio ratio		
Graphics - controller	**NeoMagic™ MagicGraph128XD™** (NM2160B) /128-bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B			
	2MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw			
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024x768 with 65,536 colors			
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt			
Memory - std / max	**32MB** / 96MB / non-parity / 3.3 volt / EDO / 60ns			
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64MB / socket accessed from bottom via screw			
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator			
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator			
Pointing / palm rest	TrackPoint® III / no drag lock keys			
Dimensions / weight[2]	11.8 x 9.2 x 2.4" (260 cubic inches) / 7.1 pounds (3.2 kg)			
Battery - type / life[10]	Li-Ion / non-intelligent / 8AU: 3.5 hrs; 9AU: 4.5 hrs; AAU: 4.0 hrs			
Charge time - on / off	4.2 to 12 hrs / 3.3 hrs			
Architecture	PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB)			
	ISA (audio, diskette, serial, parallel, infrared) / NS PC97338 (FDC, IR, I/O)			
	Intel Triton **430TX** PCIset / Intel **PIIX4** (EIDE, USB, PCI to ISA bridge)			
	Texas Instruments® **TI1250A** PCMCIA controller			
Docking station	None			
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator, ③ ThinkPad 380/385 Port Replicator			
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III **/ CardBus 32-bit PCI** / Zoomed video			
	PCMCIA 2.1 compatible / PC Card Standard 95			
USB / serial / parallel	**One USB /** one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)			
Other features	APM-aware BIOS / Universal AC adapter; barrel (56 watts)			
Video in/out	None			
MPEG decoder	None (software support for MPEG-1 in Windows 95)			
Data/fax modem	None			
Audio	**16-bit /** CS4237B / SRS 3D audio / FM synthesis			
Speakers	Two front stereo speakers (.5 watt) / one subwoofer above keyboard (1 watt)			
Audio features	Dial volume control (left side) / internal microphone / full duplex spk/mic			
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port			
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps			
Security	Power-on password / supervisor password / hard disk password /			
	security keyhole / personalization screen at startup			
Preinstalled software	Microsoft® Windows® 95 OSR2 wth applications (listed on right)			
Limited warranty[11]	**1 year** - ThinkPad EasyServ (door-to-door depot repair service) or carry-in			
Service options[15]	On-site, M-F, 8-5, next bus day (71 cities) / warranty extension to 3 or 5 years			

WINDOWS 95 PRELOAD[16]

- Microsoft Windows 95 OSR2.1 (FAT16)
- Internet Explorer 4.0
- Online User's Guide
- ThinkPad Configuration Program
- SystemSoft CardWorks™
- Diskette Factory and Utilities
- Artisoft ConfigSafe
- NetFinity for Windows 95
- Puma TranXit™
- IBM Anti-Virus
- IBM Global Network (IGN Dialer)
- Netscape Navigator browser
- Intel LANDesk Client Manager (via web)
- IntelliQuest Registration Mailer
- Ergonomics
- PointCast (with ThinkPad channel)
- Marketing Demo
- Tivoli Lightweight Client Framework
- ThinkPad on the Net
- Personalization Editor
- ThinkPad Customization
- Lotus SmartSuite 97

✧ Recovery CD-ROM with boot diskette
✧ Windows 95 CD-ROM (no installation)

3.2GB = DMA Mode 2 or PIO Mode 4
4.0GB = DMA Mode 2 or PIO Mode 4
5.1GB = Ultra DMA/33 or PIO Mode 4
All disks are SMART compliant

Fn + F2 = Battery guage
Fn + F3 = Standby
Fn + F4 = Suspend
Fn + F7 = LCD/CRT/Simultaneous
Fn + F11 = Power mgmt
Fn + F12 = Hibernation

The **ThinkPad Enhanced Port Replicator** provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:

- Dual IBM lock slots to secure the ThinkPad, PC Cards, and Port Replicator

Port Replicator connectors:
- USB, serial (9 pin), parallel (25 pin)
- External display (15 pin)
- Keyboard and mouse
- Audio in (3.5 mm) and audio out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- External diskette drive conntr - not on system
- Power connector (requires AC power; can not run on battery)

Features of the PC Card slots:
- Two Type III slots (side by side)
- PC Card Standard 95 compliant
- CardBus compliant (PCI 2.1 / 32-bit)
- 8/16-bit PC Card support (no Zoomed Video)
- Texas Instruments PCI1131 controller
- Requires no PCI-to-PCI bridge

OPTIONS

- 8MB SO DIMM 3.3v NP EDO 64-bit	92G7340
- 16MB SO DIMM 3.3v NP EDO 64-bit	92G7341
- 16MB SO DIMM NP EDO 64-bit (new)	01K1124
- 32MB SO DIMM 3.3v NP EDO 64-bit	92G7342
- 64MB SO DIMM 3.3v NP EDO 64-bit	76H0268
- ThinkPad 560 Port Replicator	46H4209
- ThinkPad 380/385 Port Replicator	84G1316
- ThinkPad Enhanced Port Replicator	11J8997
- ThinkPad 380/385 Li-Ion Battery (old)	73H9793
- ThinkPad 380/385 Li-Ion Battery	02K6507
- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- 4.0GB disk, 13ms	05K8871
- 6.4GB disk, 13ms, Ultra DMA/33	02K0518
- 33.6Kbps Modem with XJACK	55H6759
- 56K PC Card Modem Kit	04K0052
- 56K PC Card Modem/Cellular cpble	02K4196
- 10/100 Ethernet CardBus PC Card	08L3147

Easy-Setup is entered by holding F1 when turning on.

FEATURES

Wired for Management 1.1a
DMI 2.0 compliant
PC 97 compliant
Setup Guide and User's Guide
System Status Indicators
Plug and Play 1.0a
Standby, suspend, safe suspend (RediSafe), and hibernation modes
ENERGY STAR compliant
International Warranty Service[14]
IBM SystemXtra™
24 hour / 7 day telephone[30]**, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support**
IBM and dealer warranty/service

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad in most North American locations, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround)

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IBM ThinkPad® 380XD (Pentium II) - withdrawn

IBM® ThinkPad®

Processor type	**Intel® Mobile Pentium® II 233/66 or 266/66MHz**[1] / 64-bit to L2 cache and memory	***All-in-one integration means the disk, diskette drive, and CD-ROM are all within the covers of the notebook; removable disk; keyboard does not lift up***
Processor features	No upgrade / processor, L2 cache, and memory cntr (North Bridge) on Mobile Module	
L2 cache	**512KB** / write-back / 4 way set associative / sync pipelined burst / ECC / 1/2 speed	
Diskette drive	Internal 3.5" 1.44MB / use simultaneously with CD-ROM / on right side	
External FDD port	None since diskette internal	
CD-ROM	**5.25" CD-ROM / 24X-10X speed /** CAV / multi-session / XA / ATAPI / bootable / not removable / on right side	

Type - model	**2635-EAU**	**2635-FAU**
Processor	**233/66MHz**	**266/66MHz**
Preload (see side)	**Windows 95**	**Windows 95**
Avail / withdrawn date	May 1998 / December 1998	May 1998 / December 1998
Disk - size / ms	**4.0GB**[4] / 13ms / PIO Mode 4	**5.1GB** / 12ms / PIO Mode 4
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / disk can be removed and upgraded by customer	

Display - size and type	**12.1 inch HPA color**	**12.1 inch TFT color**
Display - techology	**SVGA** / 640 x 480 or 800 x 600	**SVGA** / 640 x 480 or 800 x 600
	Dual scan / HPA / 150ms / 100 nits	**Active Matrix TFT** / 75ms / 100 nits
	16 mil sim colors / 50 to 1 contrast	**16.7 million** simultaneous colors / 100 to 1 contrast ratio ratio

Graphics - controller	**NeoMagic™ MagicGraph128XD™** (NM2160B) /128-bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B
	2MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024 x 768 with 65,536 colors
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt

Memory - std / max	**32MB** / 96MB / non-parity / 3.3 volt / EDO / 60ns
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64MB / socket accessed from bottom via screw

Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator
Pointing / palm rest	TrackPoint® III / no drag lock keys
Dimensions / weight[2]	11.8 x 9.2 x 2.4" (260 cubic inches) / 7.2 pounds (3.3 kg)
Battery - type / life[10]	Li-Ion / non-intelligent / EAU: 3.1 hrs; FAU: 4.0 hrs
Charge time - on / off	4.2 to 12 hrs / 3.3 hrs
Architecture	PCI 2.1 / 32-bit / 33Mhz (EIDE, graphics, PCMCIA, USB) ISA (audio, diskette, serial, parallel, infrared) / NS PC97338 (FDC, IR, I/O) Intel **440BX** PCIset / Intel **PIIX4** (EIDE, USB, PCI to ISA bridge) Texas Instruments® **TI1250A** PCMCIA controller
Docking station	None
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator, ③ ThinkPad 380/385 Port Replicator
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III **/ CardBus 32-bit PCI** / Zoomed video PCMCIA 2.1 compatible / PC Card Standard 95
USB / serial / parallel	**One USB /** one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter; barrel (56 watts)
Video in/out	None
MPEG decoder	None (software support for MPEG-1 in Windows 95)
Data/fax modem	None
Audio	**16-bit /** CS4237B / SRS 3D audio / FM synthesis
Speakers	Two front stereo speakers (.5 watt) / one subwoofer above keyboard (1 watt)
Audio features	Dial volume control (left side) / internal microphone / full duplex spk/mic
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps
Security	Power-on password / supervisor password / hard disk password / security keyhole / personalization screen at startup
Preinstalled software	Microsoft® Windows® 95 OSR2.1 with applications (listed on right)
Limited warranty[11]	**1 year** - ThinkPad EasyServ[31] (door-to-door depot repair service) or carry-in
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date

WINDOWS 95 PRELOAD[16]

- Microsoft Windows 95 OSR2.1 (FAT16)
- Internet Explorer 4.0
- Online User's Guide
- ThinkPad Configuration Program
- SystemSoft CardWorks™
- Diskette Factory and Utilities
- ConfigSafe
- NetFinity for Windows 95
- Puma TranXit™
- IBM Anti-Virus
- IBM Global Network (IGN Dialer)
- Netscape Navigator browser
- Intel LANDesk Client Manager (via web)
- IntelliQuest Registration Mailer
- Ergonomics
- PointCast (with ThinkPad channel)
- Marketing Demo
- Tivoli Lightweight Client Framework
- ThinkPad on the Net
- Personalization Editor
- ThinkPad Customization
- Lotus® SmartSuite 97

✧ Recovery CD-ROM with boot diskette
✧ Windows 95 CD-ROM (no installation)

4.0GB = DMA Mode 2 or PIO Mode 4
5.1GB = Ultra DMA/33 or PIO Mode 4
6.4GB = Ultra DMA/33 or PIO Mode 4
All disks are SMART compliant

Fn + F2 = Battery guage
Fn + F3 = Standby
Fn + F4 = Suspend
Fn + F7 = LCD/CRT/Simultaneous
Fn + F11 = Power mgmt
Fn + F12 = Hibernation

The **ThinkPad Enhanced Port Replicator** provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:

- Dual IBM lock slots to secure the ThinkPad, PC Cards, and Port Replicator

Port Replicator connectors:
- USB, serial (9 pin), parallel (25 pin)
- External display (15 pin)
- Keyboard and mouse
- Audio in (3.5 mm) and audio out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- External diskette drive connter - not on system
- Power connector (requires AC power; can not run on battery)

Features of the PC Card slots:
- Two Type III slots (side by side)
- PC Card Standard 95 compliant
- CardBus compliant (PCI 2.1 / 32-bit)
- 8/16-bit PC Card support (no Zoomed Video)
- Texas Instruments PCI1131 controller
- Requires no PCI-to-PCI bridge

OPTIONS

- 8MB SO DIMM 3.3v NP EDO 64-bit	**92G7340**
- 16MB SO DIMM 3.3v NP EDO 64-bit	**01K1124**
- 32MB SO DIMM 3.3v NP EDO 64-bit	**92G7342**
- 64MB SO DIMM 3.3v NP EDO 64-bit	**76H0268**
- ThinkPad 560 Port Replicator	46H4209
- ThinkPad 380/385 Port Replicator	84G1316
- ThinkPad Enhanced Port Replicator	11J8997
- ThinkPad 380/385 Li-Ion Battery	02K6507
- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- 4.0GB disk, 13ms	05K8871
- 6.4GB disk, 13ms, Ultra DMA/33	02K0518
- V.90 PC Card Modem with XJACK[24]	10L7393

Easy-Setup is entered by holding F1 when turning on.

FEATURES

DMI 2.0 compliant
PC 97 compliant
Wired for Management 1.1a
Setup Guide, User's Guide, Options by IBM Catalog, Introducing Windows 95 book
System Status Indicators
Plug and Play 1.0a
Standby, suspend, safe suspend (RediSafe), and hibernation modes
ENERGY STAR compliant
International Warranty Service[14]
IBM SystemXtra™ Program
24 hour / 7 day telephone[30]**, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support**

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IBM ThinkPad® 380Z - withdrawn

IBM® ThinkPad®

Processor	**Intel® Mobile Pentium® II 233 or 300MHz**[1] / 66MHz system bus				
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Intel Mobile Module				
L2 cache	**512KB** / sync pipelined burst / ECC / half speed				
Diskette drive	Internal 3.5" 1.44MB / use simultaneously with CD-ROM / on right side				
External FDD port	None since diskette internal				
CD-ROM	**5.25" CD-ROM / 24X-10X[5] speed /** CAV / multi-session / XA / ATAPI / bootable / not removable / on right side				
Type - model	**2635-HGU**	**2635-JGU**	**2635-HBU**	**2635-JBU**	**2635-JCU** (AAP)
Processor	**Pentium II 233MHz**	**Pentium II 300MHz**	**Pentium II 233MHz**	**Pentium II 300MHz**	**Pentium II 300MHz**
Preload (see side)	**Windows 98**	**Windows 98**	**NT 4.0**	**NT 4.0**	**None**
Disk - size / ms	**4.0GB**[4] / 13ms read / 14ms write / SMART				**None**
Disk controller	EIDE / PCI 2.1 / supports one internal disk / disk can be removed and upgraded by customer				
Avail / withdrawn date	September 1998 / HGU withdrawn March 1999; others withdrawn June 1999				
Display - size and type	**13.3 inch TFT color**				
Display - techology	**XGA** / 640x480 or 800x600 or 1024x768 / **Active Matrix TFT** / 75ms / 100 nits **16.7 million** simultaneous colors / 100 to 1 contrast ratio ratio				
Graphics - controller	**NeoMagic™ MagicMedia256AV™** (NM2200) / PCI 2.1 / 128-bit engine, 256-bit memory interface / DDC2B / Direct3D				
	2.5MB / SDRAM (embedded) / **motion compensation** / color space conversion / interpolation in X and Y axis				
Graphics - external	External SVGA to 1024x768 with 16.7 million colors at 85Hz				
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt / multiple-monitor support [26]				
Memory - std / max	**32MB** / 96MB or 160MB* / non-parity / 3.3 volt / EDO / 60ns				
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 16, 32, or 64MB / socket accessed from bottom via screw				
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator				
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator				
Pointing	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace				
Dimensions	11.8 x 9.2 x 2.4" (260 cubic inches); 300.0mm x 233.0mm x 62.0mm				
Weight[2]	7.2 pounds (3.3 kg) with battery and disk				
Battery - type / life[10]	Li-Ion / non-intelligent / *Hxx:* 3.1 hrs; *Jxx:* 3.3 hrs				
Charge time - on / off	4.2 to 12 hrs / 3.3 hrs				
Architecture	**Intel 440BX** PCIset / Intel **PIIX4E** (EIDE, PCI to ISA bridge, USB)				
	Texas Instruments® **TI1250A** PCMCIA controller / NS PC97338 (FDC, IR, I/O)				
	PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB)				
	ISA (audio, diskette, serial, parallel, infrared)				
Docking station	None				
Port replicator	ThinkPad Port Replicator with Advanced EtherJet / ThinkPad 560 Port Replor				
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed video				
USB / serial / parallel	**One USB /** one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)				
Other features	APM-aware BIOS / Universal AC adapter; barrel (56 watts)				
Video in/out	None				
MPEG decoder	None (software support for MPEG-1 in Windows 98)				
Data/fax modem	None				
Audio	16-bit / CS4237B / SRS 3D audio / FM synthesis				
Speakers	Two front stereo speakers (.5 watt) / one subwoofer above keyboard (1 watt)				
Audio features	Dial volume control (left side) / internal microphone / full duplex spk/mic				
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port				
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps				
Security	Power-on password / supervisor password / hard disk password / security keyhole / personalization screen at startup				
Limited warranty[11]	**1 year** - carry-in or ThinkPad EasyServ™[31] (door-to-door depot repair service)				
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / service agreements up to 5 years from purchase date				

All-in-one integration means the disk, diskette drive, and CD-ROM are all within the covers of the notebook; removable disk; keyboard does not lift up

All models:
- C: drive is FAT16 of 2GB
- D: drive is FAT32 (if W98) or FAT16 (if NT) of remaining space

WINDOWS 98 PRELOAD[16]

- Microsoft® Windows® 98
- Online User's Guide
- ThinkPad Configuration Program
- ThinkPad Utilities
- IBM Update Connector
- RingCentral Fax
- Ergonomics
- IBM Registration
- Puma IntelliSync 97 (infrared)
- IBM Global Network Dialer
- Netscape Navigator web browser
- Lotus® SmartSuite 97 (CD)
- ConfigSafe
- Norton AntiVirus (OEM Version)
- ThinkPad on the Net (TCC CD)
- ✧ Customization Center CD-ROM
- ✧ Lotus SmartSuite 97 CD-ROM
- ✧ Product Recovery CD-ROM (with boot diskette)

WINDOWS NT PRELOAD[16]

- Windows NT® Workstation 4.0
- Service Pack 3
- Online User's Guide
- Artisoft ConfigSafe
- ThinkPad Configuration Program
- ThinkPad Utilities
- Diskette Factory
- Puma IntelliSync 97 (infrared)
- IBM Registration
- Ergonomics
- SystemSoft CardWizard
- Norton AntiVirus (TCC CD)
- ✧ Product Recovery CD-ROM (with boot diskette)

The **ThinkPad Port Replicator with Advanced EtherJet Feature** provides cable management, additional I/O ports, CardBus PC Card slots, and 10/100 ethernet with Wake on LAN™. Features:

- 10/100 ethernet (Intel 82558, Wake on LAN)
- Dual IBM lock slots to secure the ThinkPad, PC Cards, and Port Replicator

Connectors:
- USB, serial (RS-232, 9 pin), parallel (25 pin), external display, keyboard, mouse
- Audio in and out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- External diskette drive connector (no support)
- Power connector

Features of the PC Card slots:
- Two Type III slots (side by side)
- PC Card Standard 95 compliant
- CardBus compliant (PCI 2.1 / 32-bit)
- PCMCIA 2.1 (no Zoomed Video)
- TI 1250A controller
- Requires no PCI-to-PCI bridge

OPTIONS

- 16MB SO DIMM 3.3v NP EDO 64-bit	01K1124
- 32MB SO DIMM 3.3v NP EDO 64-bit	92G7342
- 64MB SO DIMM 3.3v NP EDO 64-bit	76H0268
- ThinkPad 560 Port Replicator	46H4209
- Port Replicator w/ Advanced EtherJet	05K4872
- ThinkPad 380/385 Li-Ion Battery	02K6507
- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- 4.0GB disk**, 13ms	05K8871
- 6.4GB disk**, 13ms, Ultra DMA/33	02K0518
- V.90 PC Card Modem with XJACK[24]	10L7393
- 56K PC Card Modem/Cellular cpble	02K4196
- 10/100 Ethernet CardBus PC Card	08L3147
- ThinkPad Proven™ solutions[12] (visit www.ibm.com/pc/us/thinkpad/proven)	

Easy-Setup is entered by holding F1 when turning on.

4.0GB = Ultra DMA/33** or PIO Mode 4
6.4GB = Ultra DMA/33** or PIO Mode 4
All disks are SMART compliant

FEATURES

Wired for Management 1.1a compliant
DMI 2.0 compliant
PC 97 compliant
ACPI ready (APM enabled)
Setup Guide and User's Guide
System Status Indicators
Plug and Play 1.0a
Standby, suspend, safe suspend (RediSafe), and hibernation modes
ENERGY STAR compliant
International Warranty Service[14]
IBM SystemXtra®[, 35]
24 hour / 7 day telephone[30]**, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support**

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No warranties are expressed or implied in this summary
(380Z) © IBM Corp. July 1999

* Maximum memory capacity with 128MB SO DIMM from ThinkPad Proven vendor
** Bus length limits EIDE controller (only on 380Z) to DMA Multi-Word Mode 1 (13MB/sec)

IBM ThinkPad 385D (Retail models) - withdrawn

IBM® ThinkPad®:	⋊ 385D 12.1" SVGA DSTN or TFT / 8 x CD-ROM		
Processor type	**Pentium® 150/60 MHz or 150/60 MHz with MMX™ technology**/ 64 bit transfer to L2 cache / 64 bit transfer to memory		
Processor upgrade	None		
L2 cache	**256 KB** / write-through / direct mapped / 8 ns / synchronous pipelined burst		
Diskette drive	Internal 3.5" 1.44 MB / use simultaneously with CD-ROM / on right side		
External FDD port	None since diskette internal		
CD-ROM	**5.25" CD-ROM / 8 x speed /** multi-session / XA / ATAPI / not bootable / not removable / on right side		
Type - model	**2635-2EU**	**2635-3EU**	**All-in-one integration means the disk, diskette drive, and CD-ROM are all within the covers of the notebook; keyboard does not lift up**
Preload (see side)	**Windows 95 OSR2**	**Windows 95 OSR2**	
Avail / withdrawn date	May 1997 / January 1998	May 1997 / January 1998	
Pentium speed	**150/60 MHz**	**150/60 MHz with MMX technology**	
Disk - size / ms	**1.35 GB** / 13 ms / PIO Mode 4	**2.1 GB** / 13 ms / PIO Mode 4	
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / not removeable / upgrade only by IBM or dealer		
Display - size and type	**12.1 inch DSTN color**	**12.1 inch TFT color**	
Display - techology	**SVGA** / 640 x 480 or 800 x 600 **Dual scan** 65,536 sim colors / 30 to 1 contrast	**SVGA** / 640 x 480 or 800 x 600 **Black Matrix TFT** - active matrix 65,536 simultaneous colors / 100 to 1 contrast ratio ratio	
Graphics - controller	**NeoMagic™ MagicGraph128ZV™** (NM2093) /128 bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B 1.125 MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw		
Graph - arch/data path	PCI 2.1 / 32 bit / external SVGA to 1024 x 768 with 256 colors		
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt		
Memory - std / max	**16 MB** / 80 MB / non-parity / 3.3 volt / EDO		
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64 MB / socket accessed from bottom via screw		
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator		
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator		
Pointing / palm rest	TrackPoint III™ / no drag lock keys		
Dimensions	11.8 x 9.2 x 2.4" (260 cubic inches)		
Weight	7.1 pounds (3.2 kg)	6.9 pounds (3.1 kg)	
Battery - type / life	NiMH / non-intelligent / 2.0 hrs	Li-Ion / non-intelligent / 2.6 hrs	
Charge time - on / off	3.5 to 9 hrs / 2.5 to 3.5 hrs		
Architecture	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, PCMCIA, Port Replicator) ISA (audio, diskette, serial, parallel, infrared) Intel® Mobile Triton 82430 PCIset / Intel 82371MX PIIX / NS PC87338		
Docking Station	None		
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator ③ ThinkPad 380/385 Port Replicator		
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III **/ Zoomed Video support in lower slot /** PCMCIA 2.1 compatible / PC Card Standard 95 / Cirrus Logic CL-PD6729 (PCI)		
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	APM-aware BIOS / Universal AC adapter; barrel (35 watts) / Selectable boot		
Video in/out	None		
MPEG decoder	None		
Data/fax modem	None		
Audio support	**16 bit audio chip /** 20 voice MIDI FM Synthesis / Crystal Semiconductor™ CS4236 One internal speaker / .5 watt / dial volume control / internal mic / full duplex		
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port		
Infrared ports	**Infrared port on left side / IrDA 1.1 compatible / up to 4 Mbps**		
Security	Power-on password / Hard disk password / security keyhole		
Preinstalled software	Microsoft Windows 95 OSR2 wth applications (listed on right)		
Warranty	**1 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in		

WINDOWS 95 PRELOAD

- Microsoft Windows 95 OSR2 (FAT16)
- Lotus SmartSuite
  - WordPro Word Processor
  - 1-2-3 Spreadsheet
  - Freelance Graphics
  - Approach Database
  - Organizer Scheduler
- IBM Global Network (IGN)
- NetScape Navigator Browser
- AOL, AT&T WorldNet, CompuServe
- Media Player
  - Active Movie (MPEG-1, AVI)
  - Video for Windows
  - CD Audio Player
  - MIDI Sequencer
- Quicken SE
- Expensable
- Wall Street Money SE
- National Golf Course Directory
- Rand McNally's Trip Maker
- IBM Anti-Virus
- IBM Online Housecall
- IBM Update Connector
- IntelliLink Connect
- TranXit
- Online User's Guide
- SystemSoft Card Works
- Password Protected Marketing Demo
- CD-ROMs included in the Shipping Carton
  - Preload Recovery CD w/boot diskette
  - Windows 95 CD (no installation)
  - Picture Perfect Golf

The **ThinkPad Enhanced Port Replicator** provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:

- Dual IBM lock slots to secure the ThinkPad 385D, PC Cards, and Port Replicator

Port Replicator connectors:
- USB
- Serial (9 pin); parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- External diskette drive conntr - not on system
- Power connector (requires AC power; can not run on battery)

Features of the PC Card slots:
- Two Type III slots (side by side)
- PC Card Standard 95 compliant
- CardBus compliant (PCI 2.1 / 32 bit)
- 8/16 bit PC Card support (no Zoomed Video)
- Texas Instruments PCI1131 controller
- Requires no PCI-to-PCI bridge

Options for ThinkPad 385D:

- 8 MB SO DIMM 3.3v NP EDO 64 bit	**92G7340**
- 16 MB SO DIMM 3.3v NP EDO 64 bit	**92G7341**
- 32 MB SO DIMM 3.3v NP EDO 64 bit	**92G7342**
- 64 MB SO DIMM 3.3v NP EDO 64 bit	**76H0268**
- ThinkPad 560 Port Replicator	46H4209
- ThinkPad 380/385 Port Replicator	84G1316
-ThinkPad Enhanced Port Replicator	11J8997
- Li-Ion Battery Pack	73H9793
- 35 watt AC Adapter (slim, barrel)	76H0139
- 8 x CD-ROM	73H9795
- 2.1 GB HDD 13 ms	73H9797
- 3.2 GB Disk 13 ms	02K0487
- 5.1 GB Disk 12 ms	02K0506
- 33.6 Kbps Modem with XJACK	55H6759
- 56K PC Card Modem Kit	04K0052

Easy-Setup is entered by holding F1 when turning on.

Fn + F2 = Battery guage
Fn + F3 = Standby
Fn + F4 = Suspend
Fn + F7 = LCD/CRT/Simultaneous
Fn + F11 = Power mgmt
Fn + F12 = Hibernation

FEATURES OF 385D MODELS

Quick Setup Guide
System Status Indicators
Plug and Play 1.0a
Standby, suspend, safe suspend (RediSafe), and hibernation modes
US EPA Energy Star compliant
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.

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(385D) Compiled by Roger Dodson, IBM. December 1997

IBM ThinkPad 385ED (Retail models) - withdrawn

IBM® ThinkPad®:	385ED 12.1" SVGA Fast Response STN or Active Matrix / 20x max variable speed CD-ROM	
Processor type	**Pentium® MMX™ 166/66 MHz** / 64 bit transfer to L2 cache / 64 bit transfer to memory	**All-in-one integration means the disk, diskette drive, and CD-ROM are all within the covers of the notebook; keyboard does not lift up**
Processor upgrade	None	
L2 cache	**256 KB** / write-through / direct mapped / 8 ns / synchronous pipelined burst	
Diskette drive	Internal 3.5" 1.44 MB / use simultaneously with CD-ROM / on right side	
External FDD port	None since diskette internal	
CD-ROM	**5.25" CD-ROM / 20x max variable speed /** CAV / multi-session / XA / ATAPI / not bootable / not removable / on right side	

Type - model (code)	**2635-5EU**	**2635-6EU**
UPC code	**087944350163**	**087944343660**
Preload (see side)	**Windows 95 OSR2**	**Windows 95 OSR2**
Avail / withdrawn date	September 1997 / July 1997	September 1997 / July 1997
Disk - size / ms	**2.1 GB** / 13 ms / PIO Mode 4	**3.0 GB** / 13 ms / PIO Mode 4
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / not removeable / upgrade only by IBM or dealer	

Display - size and type	**12.1 inch Fast Response color**	**12.1 inch Active color**
Display - techology	**SVGA** / 640 x 480 or 800 x 600 **Dual scan** / FRSTN / 150 ms / 70 nits 65,536 sim colors / 35 to 1 contrast	**SVGA** / 640 x 480 or 800 x 600 **Active Matrix TFT** / 75 ms / 100 nits 65,536 simultaneous colors / 100 to 1 contrast ratio ratio
Graphics - controller	**NeoMagic™ MagicGraph128ZV™** (NM2093) /128 bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B 1.125 MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw	
Graph - arch/data path	PCI 2.1 / 32 bit / external SVGA to 1024 x 768 with 256 colors	
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt	

Memory - std / max	**16 MB** / 80 MB / non-parity / 3.3 volt / EDO
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64 MB / socket accessed from bottom via screw
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator
Pointing / palm rest	TrackPoint III™ / no drag lock keys
Dimensions	11.8 x 9.2 x 2.4" (260 cubic inches)
Weight	7.1 pounds (3.2 kg)

Battery - type / life	Li-Ion / non-intelligent / 2.0 hrs	Li-Ion / non-intelligent / 2.5 hrs
Charge time - on / off	4.2 to 12 hrs / 3.3 hrs	

Architecture	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, PCMCIA, Port Replicator) ISA (audio, diskette, serial, parallel, infrared) Intel® Mobile Triton 82430 PCIset / Intel 82371MX PIIX / NS PC87338
Docking Station	None
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator, ③ ThinkPad 380/385 Port Replicator
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III **/ Zoomed Video support in lower slot /** PCMCIA 2.1 compatible / PC Card Standard 95 / Cirrus Logic CL-PD6729 (PCI)
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter; barrel (35 or 56 watts)
Video in/out	None
MPEG decoder	None (software support for MPEG-1 in Windows 95)
Data/fax modem	None
Audio support	**16 bit audio chip /** 20 voice MIDI FM Synthesis / CS4236B One internal speaker / .5 watt / dial volume control / int mic/ full duplex spk/mic
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port
Infrared ports	**Infrared port on left side / IrDA 1.1 compatible / up to 4 Mbps**
Security	Power-on password / Hard disk password / security keyhole / personalization
Preinstalled software	Microsoft Windows 95 OSR2 wth applications (listed on right)
Warranty	**1 year** - ThinkPad EasyServ (optional depot repair service) or carry-in

WINDOWS 95 PRELOAD

- Microsoft Windows 95 OSR2 (FAT16)
- Lotus SmartSuite 97
  - WordPro Word Processor
  - 1-2-3 Spreadsheet
  - Freelance Graphics
  - Approach Database
  - Organizer Scheduler
  - ScreenCam
- Ergonomics
- Diskette factory and utilities
- ThinkPad customization icon
- IntelliQuest Registration Mailer
- Voyetra Audio Station
- IBM Global Network (IGN)
- NetScape Navigator Browser
- AOL, AT&T WorldNet, CompuServe
- Media Player
  - Active Movie (MPEG-1, AVI)
  - Video for Windows
  - CD Audio Player
  - MIDI Sequencer
- Quicken SE
- Expensable
- Wall Street Money SE
- National Golf Course Directory
- Rand McNally's Trip Maker
- IBM Anti-Virus
- IBM Online Housecall
- IBM Update Connector
- TranXit™
- Online User's Guide
- SystemSoft Card Works
- PointCast
- Password Protected Marketing Demo
- CD-ROMs included in the shipping carton
  - Preload Recovery CD w/boot diskette
  - Windows 95 CD (no installation)
  - Picture Perfect Golf

The **ThinkPad Enhanced Port Replicator** provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:

- Dual IBM lock slots to secure the ThinkPad 385, PC Cards, and Port Replicator

Port Replicator connectors:
- USB
- Serial (9 pin), parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- External diskette drive conntr - not on system
- Power connector (requires AC power; can not run on battery)

Features of the PC Card slots:
- Two Type III slots (side by side)
- PC Card Standard 95 compliant
- CardBus compliant (PCI 2.1 / 32 bit)
- 8/16 bit PC Card support (no Zoomed Video)
- Texas Instruments PCI1131 controller
- Requires no PCI-to-PCI bridge

OPTIONS

- 8 MB SO DIMM 3.3v NP EDO 64 bit	**92G7340**
- 16 MB SO DIMM 3.3v NP EDO 64 bit	**92G7341**
- 16 MB SO DIMM NP EDO 64 bit (new)	**01K1124**
- 32 MB SO DIMM 3.3v NP EDO 64 bit	**92G7342**
- 64 MB SO DIMM 3.3v NP EDO 64 bit	**76H0268**
- ThinkPad 560 Port Replicator	46H4209
- ThinkPad 380/385 Port Replicator	84G1316
- ThinkPad Enhanced Port Replicator	11J8997
- ThinkPad 380/385 Li-Ion Battery (old)	73H9793
- ThinkPad 380/385 Li-Ion Battery	02K6507
- 35 watt AC Adapter (barrel, slim)	76H0139
- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- 2.1 GB Disk 13 ms	73H9797
- 3.2 GB Disk 13 ms	02K0487
- 5.1 GB Disk 12 ms	02K0506
- 33.6 Kbps Modem with XJACK	55H6759
- 56K PC Card Modem Kit	04K0052

Fn + F2	= Battery guage
Fn + F3	= Standby
Fn + F4	= Suspend
Fn + F7	= LCD/CRT/Simultaneous
Fn + F11	= Power mgmt
Fn + F12	= Hibernation

FEATURES OF 385 MODELS

Quick Setup Guide
System Status Indicators
Plug and Play 1.0a
Standby, suspend, safe suspend (RediSafe), and hibernation modes
US EPA Energy Star compliant
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround)

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No warranties are expressed or implied in this summary
(385ED) Compiled by Roger Dodson, IBM. June 1998

IBM ThinkPad® 385XD (Retail models) - withdrawn

IBM® ThinkPad®

Processor type	**Pentium® 233/66[1] with MMX™ technology, 266/66MHz with MMX™ technology,** or **Pentium II 266/66MHz**			
Processor features	No upgrade / processor, L2 cache, and memory controller (North Bridge) on Mobile Module			
L2 cache	**512KB** / sync pipelined burst (66MHz for Pentium / ECC and 133MHz for Pentium II)			
Diskette drive	Internal 3.5" 1.44MB / use simultaneously with CD-ROM / on right side			
External FDD port	None since diskette internal			
CD-ROM	**5.25" CD-ROM / 24X-10X[5] speed /** CAV / multi-session / XA / ATAPI / bootable / not removable / on right side			
Type - model	**2635-8EU**	**2635-9EU**	**2635-DEU**	***All-in-one integration means the***
UPC code	**0-87944-40513-9**	**0-87944-40514-6**	**0-87944-41973-0**	***disk, diskette drive, and CD-ROM***
Processor	**Pentium 233/66MHz**	**Pentium 266/66MHz**	***Pentium II 266/66MHz***	***are all within the covers of the***
Avail / withdrawn date	March 1998 / Sept 1998	March 1998 / Sept 1998	May 1998 / Sept 1998	***notebook; removable disk;***
Disk - size / ms	**2.1GB**[4] / 13ms / PIO Mode 4	**3.2GB** / 13ms / PIO Mode 4	**3.2GB** / 13ms / PIO 4	***keyboard does not lift up***
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / disk can be removed and upgraded by customer			
Display - size and type	**12.1 inch HPA** (High Performance Addressing) **color**		**12.1 inch TFT color** / Active Matrix	
Display - techology	**SVGA** / 640x480 or 800x600 / 150ms / 100 nits / **16.7 million simultaneous colors** / 50 to 1 contrast		**SVGA** / 640x480 or 800x600 / 75ms / 100 nits **16.7 million simultaneous colors** / 100 to 1 contrast	
Graphics - controller	**NeoMagic™ MagicGraph128XD™** (NM2160B) / 128-bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B			
	2MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw			
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024x768 with 65,536 colors			
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt			
Memory - std / max	**32MB** / 96MB / non-parity / 3.3 volt / EDO / 60ns			
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64MB			
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator			
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator			
Pointing / palm rest	TrackPoint III™ / no drag lock keys			
Dimensions / weight[2]	11.8 x 9.2 x 2.4" (260 cubic inches) / 8EU/9EU: 7.1 pounds; DEU: 7.2 lbs			
Battery - type / life[10]	Li-Ion / non-intelligent / 3.0 hrs			
Charge time - on / off	4.2 to 12 hrs / 3.3 hrs			
Architecture	Intel® Triton **430TX, PIIX4** for Pentium systems / **Intel 440BX, PIIX4** for Pent II			
	PIIX4 (EIDE, USB, PCI to ISA bridge)TI® **TI1250A** PCMCIA controller			
	PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB)			
	ISA (audio, diskette, serial, parallel, infrared) / NS PC97338 (FDC, IR, I/O)			
Docking station	None			
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator, ③ ThinkPad 380/385 Port Replicator			
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III **/ CardBus 32-bit PCI** / Zoomed video			
	PCMCIA 2.1 compatible / PC Card Standard 95			
USB / serial / parallel	**One USB /** one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)			
Other features	APM-aware BIOS / Universal AC adapter; barrel (56 watts) / 35 watt supported			
Video in/out	None			
MPEG decoder	None (software support for MPEG-1 in Windows 95)			
Data/fax modem	**56KB PC Card Modem / Cellular Capable** / x2 / XJACK connecor (02K4196)			
Audio	**16-bit** / CS4237B / SRS 3D audio / FM synthesis			
Speakers	Two front **stereo speakers** (.5 watt) / one **subwoofer** above keyboard (1 watt)			
Audio features	Dial volume control (left side) / internal microphone / full duplex spk/mic			
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port			
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps			
Security	Power-on password / supervisor password / hard disk password /			
	security keyhole / personalization screen at startup			
Preinstalled software	Microsoft® Windows® 95 OSR2.1 wth applications (listed on right)			
Limited warranty[11]	**1 year** - ThinkPad EasyServ (door-to-door depot repair service) or carry-in			
Service options[15]	On-site, M-F, 8-5, next bus day (71 cities) / warranty extension to 3 or 5 years			

WINDOWS 95 PRELOAD[16]

- Microsoft Windows 95 OSR2.1 (FAT16)
- Internet Explorer 4.0
- Online User's Guide
- ThinkPad Configuration Program
- SystemSoft CardWorks™
- Diskette Factory and Utilities
- Artisoft ConfigSafe
- Update Connector
- Puma TranXit™
- IBM Anti-Virus
- IBM Global Network (IGN Dialer)
- Netscape Navigator browser
- Media Player
- IntelliQuest Registration Mailer
- Ergonomics
- PointCast (with ThinkPad channel)
- Marketing Demo
- Expensable
- ThinkPad on the Net
- Personalization Editor
- ThinkPad Customization
- Lotus SmartSuite 97
- Voyetra Audio Station
- Rand McNally's Trip Maker
- Quicken 98 (subject to change)

✧ EA Sports PGA Tour Golf CD-ROM
✧ Recovery CD-ROM with boot diskette
✧ Windows 95 CD-ROM (no installation)

3.2GB = DMA Mode 2 or PIO Mode 4
4.0GB = DMA Mode 2 or PIO Mode 4
5.1GB = Ultra DMA/33 or PIO Mode 4
All disks are SMART compliant

Fn + F2 = Battery guage
Fn + F3 = Standby
Fn + F4 = Suspend
Fn + F7 = LCD/CRT/Simultaneous
Fn + F11 = Power mgmt
Fn + F12 = Hibernation

The **ThinkPad Enhanced Port Replicator** provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:

- Dual IBM lock slots to secure the ThinkPad, PC Cards, and Port Replicator

Port Replicator connectors:
- USB, serial (9 pin), parallel (25 pin)
- External display (15 pin)
- Keyboard and mouse
- Audio in (3.5 mm) and audio out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- External diskette drive conntr - not on system
- Power connector (requires AC power; can not run on battery)

Features of the PC Card slots:
- Two Type III slots (side by side)
- PC Card Standard 95 compliant
- CardBus compliant (PCI 2.1 / 32-bit)
- 8/16-bit PC Card support (no Zoomed Video)
- Texas Instruments PCI1131 controller
- Requires no PCI-to-PCI bridge

OPTIONS

- 8MB SO DIMM 3.3v NP EDO 64-bit	92G7340
- 16MB SO DIMM 3.3v NP EDO 64-bit	92G7341
- 16MB SO DIMM NP EDO 64-bit (new)	01K1124
- 32MB SO DIMM 3.3v NP EDO 64-bit	92G7342
- 64MB SO DIMM 3.3v NP EDO 64-bit	76H0268
- ThinkPad 560 Port Replicator	46H4209
- ThinkPad 380/385 Port Replicator	84G1316
- ThinkPad Enhanced Port Replicator	11J8997
- ThinkPad 380/385 Li-Ion Battery (old)	73H9793
- ThinkPad 380/385 Li-Ion Battery	02K6507
- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- 6.4GB disk, 13ms, Ultra DMA/33	02K0518
- 33.6Kbps Modem with XJACK	55H6759
- 56K PC Card Modem Kit	04K0052
- 56K PC Card Modem/Cellular Capable	02K4196

Easy-Setup is entered by holding F1 when turning on.

FEATURES

DMI 2.0 compliant (via software upgrade)
PC 97 compliant
Wired for Management 1.1a
Setup Guide, User's Guide, Options by IBM catalog, Windows 95 book
System Status Indicators
Plug and Play 1.0a
Standby, suspend, safe suspend (RediSafe), and hibernation modes
ENERGY STAR compliant
International Warranty Service[14]
24 hour / 7 day telephone[30]**, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support**
IBM and dealer warranty/service

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad in most North American locations, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround)

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IBM ThinkPad® 385XD (Windows 98) - withdrawn

IBM® ThinkPad®

Processor type	**Pentium® 233/66MHz**[1] with MMX technology
Processor features	No processor upgrade / processor, L2 cache, and memory controller (North Bridge) on Mobile Module
L2 cache	**512KB** / synchronous pipelined burst (66MHz)
Diskette drive	Internal 3.5" 1.44MB / use simultaneously with CD-ROM / on right side
External FDD port	None since diskette internal
CD-ROM	**5.25" CD-ROM / 24X-10X**[5] **speed** / CAV / multi-session / XA / ATAPI / bootable / not removable / on right side
Type - model	**2635-LEU**
UPC code	**0-87944-452188**
Avail / withdrawn date	July 1998 / September 1998
Disk - size / ms	**3.2GB**[4] / 13ms (read); 14ms (write) / PIO 4 / SMART
Disk - partitioning	Partitioned as C: (2GB - FAT16) and D: (remainder - FAT32)
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / disk can be removed and upgraded by customer
Display - size and type	**12.1 inch TFT color** / Active Matrix
Display - techology	**SVGA** / 640x480 or 800x600 / 75ms / 100 nits **16.7 million** simultaneous colors
Graphics - controller	**NeoMagic™ MagicGraph128XD™** (NM2160B) / 128-bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B 2MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024x768 with 65,536 colors at 75Hz
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt
Memory - std / max	**32MB** / 96MB / non-parity / 3.3 volt / EDO / 60ns
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 16, 32, or 64MB
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator
Pointing / palm rest	TrackPoint® III / no drag lock keys
Dimensions / weight[2]	11.8 x 9.2 x 2.4" (260 cubic inches) / 7.1 pounds (3.2kg) with battery/disk
Battery - type / life[10]	Li-Ion / non-intelligent / 3.5 hrs
Charge time - on / off	4.2 to 12 hrs / 3.3 hrs
Architecture	Intel® **Triton 430TX** **PIIX4** (EIDE, USB, PCI to ISA bridge) / TI® **TI1250A** PCMCIA controller PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB) ISA (audio, diskette, serial, parallel, infrared) / NS PC97338 (FDC, IR, I/O)
Docking station	None
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator, ③ ThinkPad 380/385 Port Replicator
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / **CardBus 32-bit PCI** / Zoomed Video PCMCIA 2.1 compatible / PC Card Standard 95
USB / serial / parallel	**One USB** / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter; barrel (56 watts) / 35 watt supported
Video in/out	None
MPEG decoder	None (software support for MPEG-1 in Windows 98)
Data/fax modem	**56KB**[9] **PC Card Modem / Cellular Capable** / x2 / XJACK connector (02K4196)
Audio	**16-bit** / CS4237B / SRS 3D audio / FM synthesis
Speakers	Two front **stereo speakers** (.5 watt) / one **subwoofer** above keyboard (1 watt)
Audio features	Dial volume control (left side) / internal microphone / full duplex spk/mic
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps
Security	Power-on password / supervisor password / hard disk password / security keyhole / personalization screen at startup
Preinstalled software	Microsoft® Windows® 98 with applications (listed on right)
Limited warranty[11]	**1 year** - ThinkPad EasyServ (door-to-door depot repair service) or carry-in
Service options[15]	On-site, M-F, 8-5, next bus day (72 cities) / warranty extension to 3 or 5 years

All-in-one integration means the disk, diskette drive, and CD-ROM are all within the covers of the notebook; removable disk; keyboard does not lift up

WINDOWS 98 PRELOAD[16]

- Microsoft Windows 98 (FAT16)
- Internet Explorer 4.01
- Online User's Guide
- ThinkPad Configuration Program
- Software Select Utility
- Diskette Factory and Utilities
- Artisoft ConfigSafe
- IBM Update Connector
- Puma IntelliSync 97
- Norton AntiVirus (OEM Version)
- IBM Global Network™ (IGN Dialer)
- Netscape Navigator browser
- RingZero Fax Central
- IntelliQuest Registration Mailer
- Ergonomics
- Intuit Expensable
- ThinkPad on the Net
- Personalization Editor
- Lotus SmartSuite 97
- Rand McNally's Trip Maker
- Quicken 98

✧ EA Sports PGA Tour Golf CD-ROM
✧ Recovery CD-ROM with boot diskette

Fn + F2 = Battery guage
Fn + F3 = Standby
Fn + F4 = Suspend
Fn + F7 = LCD/CRT/Simultaneous
Fn + F11 = Power mgmt
Fn + F12 = Hibernation

The **ThinkPad Enhanced Port Replicator** provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:

- Dual IBM lock slots to secure the ThinkPad, PC Cards, and Port Replicator

Port Replicator connectors:
- USB, serial (9 pin), parallel (25 pin)
- External display (15 pin)
- Keyboard and mouse
- Audio in (3.5 mm) and audio out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- External diskette drive conntr - not on system
- Power connector (requires AC power; can not run on battery)

Features of the PC Card slots:
- Two Type III slots (side by side)
- PC Card Standard 95 compliant
- CardBus compliant (PCI 2.1 / 32-bit)
- 8/16-bit PC Card support (no Zoomed Video)
- Texas Instruments PCI1131 controller
- Requires no PCI-to-PCI bridge

OPTIONS

- 16MB SO DIMM 3.3v NP EDO 64-bit	92G7341
- 16MB SO DIMM NP EDO 64-bit (new)	01K1124
- 32MB SO DIMM 3.3v NP EDO 64-bit	92G7342
- 64MB SO DIMM 3.3v NP EDO 64-bit	76H0268
- ThinkPad 560 Port Replicator	46H4209
- ThinkPad 380/385 Port Replicator	84G1316
- ThinkPad Enhanced Port Replicator	11J8997
- ThinkPad 380/385 Li-Ion Battery (old)	73H9793
- ThinkPad 380/385 Li-Ion Battery	02K6507
- External Battery Charger	02K6499
- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- 6.4GB disk, 13ms, Ultra DMA/33	02K0518
- 33.6Kbps Modem with XJACK	55H6759
- 56K PC Card Modem Kit	04K0052
- 56K PC Card Modem/Cellular Capable	02K4196

Easy-Setup is entered by holding F1 when turning on.

FEATURES

DMI 2.0 compliant (via software upgrade)
PC 97 compliant
Wired for Management 1.1a
Setup Guide, User's Guide, Options by IBM catalog, Windows 95 book
System Status Indicators
Plug and Play 1.0a
Standby, suspend, safe suspend (RediSafe), and hibernation modes
ENERGY STAR compliant
International Warranty Service[14]
24 hour / 7 day telephone[30]**, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support**
IBM and dealer warranty/service

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad in most North American locations, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround)

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IBM ThinkPad® 390 - withdrawn

IBM® ThinkPad®

Processor	**Intel® Pentium® 233MHz[1] with MMX™ technology or Mobile Pentium II 233 or 266MHz** / 66MHz system bus		
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Intel Mobile Module		
L2 cache	**512KB** / sync pipelined burst (66MHz for Pentium / ECC and 150MHz for Pentium II)		
Diskette drive	Internal 3.5" 1.44MB / removable from UltraBay FX / on right side / integrated with CD-ROM		
External FDD port	None since diskette internal		
CD-ROM	**CD-ROM / 24X-10X[5] speed /** ATAPI / bootable / removable from UltraBay FX / on right side / integrated with diskette drive		
DVD-ROM	*Option:* Removable UltraBay FX option / 2X[5] integrated with diskette drive / not supported in Pentium systems (2xx)		
Type - model	**2626-20U**	**2626-50U**	**2626-70U**
Processor	**Pentium 233MHz**	***Pentium II 233MHz***	***Pentium II 266MHz***
Disk - size / ms	**3.2GB**[4] / 13ms read / 14ms write / S.M.A.R.T.[29]		**4.3GB**[4] / 13ms read / 14ms write / S.M.A.R.T.[29]
Disk controller	EIDE / PCI 2.1 / supports one internal disk / disk can be removed to upgrade by customer / supports two internal disks		
Avail / withdrawn date	November 1998 / March 1999		
Display - size and type	**12.1" TFT color / Active Matrix**		**14.1" TFT color / Active Matrix**
Display - techology	**SVGA** / 640x480 or 800x600 / 30ms / 150 nits **16.7 million simultaneous colors** / 100 to 1 contrast		**XGA** / 640x480 or 800x600 or **1024x768** / 30ms / 120 nits **16.7 million simultaneous colors** / 150 to 1 contrast ratio
Graphics - controller	**NeoMagic™ MagicMedia256AV™** (NM2200) / PCI 2.1 / 128-bit engine, 256-bit memory interface / DDC2B / Direct3D **2.5MB** / SDRAM (embedded) / **motion compensation** / color space conversion / interpolation in X and Y axis		
Graphics - external	External SVGA to 1024x768 with 16.7 million colors at 85Hz		
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt / multiple-monitor support [26]		
Memory - std / max	**32MB** / 256MB[33]		**64MB** / 256MB[33]
Memory - features	SDRAM / non-parity / 66MHz / 3.3 volt / 64-bit 2 sockets for JEDEC 144-pin SO DIMMs / one socket used by std memory sockets accessed from bottom via removing cover held by phillips-head screw		
Keyboard	Full-size 85-key (7 Fn key functions) / palm rest / keyboard slope with tilt feet		
Pointing	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace center button for scrolling (Internet Scroll Bar) or magnifying glass / spare caps		
Dimensions	12.4 x 10.1 x 1.8" (225 cubic inches)		12.4 x 10.2 x 1.8" (227 cubic inches)
Weight[2]	7.5 lbs (3.4 kg) with battery and disk		7.7 lbs (3.5 kg) with battery and disk
Case material	PC/ABS plastic		PC/ABS plastic
Battery - type / life[10]	NiMH / intelligent / 3.25 hrs (1 battery) / left side		Li-Ion / intelligent / 4 hrs / left side
Charge time[10] - on / off	5 hrs on / 2.5 hrs off		6 hrs on / 3 hrs off
Architecture	**Intel Triton 430TX** for Pentium system / **Intel 440BX** PCIset for Pentium II **Intel PIIX4E** (EIDE, PCI to ISA bridge, USB) Texas Instruments® **TI1250A** PCMCIA controller / NS PC97338 (FDC, IR, I/O) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB, audio) ISA (audio, diskette, serial, parallel, infrared, modem)		
Docking station	None		
Port replicator	ThinkPad Port Replicator with Advanced EtherJet™ / ThinkPad 560 Port Replic		
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed video		
USB / serial / parallel	**One USB** / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	APM-aware BIOS / Universal AC adapter; barrel (56 watts)		
Video in/out	None		
MPEG decoder	None (software support for MPEG-1 in Windows 98)		
Data/fax modem	**56Kbps**[24] / V.90 / integrated in system / Lucent 1644 / not voice-capable		
Audio	16-bit SoundBlaster Pro™ compatible / NeoMagic NMA2 / ISA / full duplex		
Speakers	Two Altec Lansing® stereo speakers on display (1 watt)		
Audio features	Dial volume control (right side) / internal microphone		
Audio in/out jacks	Microphone jack (stereo) / headphone jack (stereo) / line-in jack		
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps		
Security	Power-on password / setup password / disk password / security keyhole / security screw for UltraBay FX		
Limited warranty[11]	**1 year** - carry-in or ThinkPad EasyServ™[31] (door-to-door depot repair service)		
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date		

All-in-one design: disk, diskette drive, and CD-ROM are all within the covers

The right bay (UltraBay FX) has a device lock on the bottom of the system and a bay LED which should be off to safely remove a device; it supports:

- standard diskette/CD-ROM (warm swap)
- optional second battery (hot swap); same battery as main one
- optional second disk (cold swap)
- optional ThinkPad Proven™ solutions[12]

All models:
- C: drive is FAT16 of 2GB
- D: drive is FAT32 of remaining space

WINDOWS 98 PRELOAD[16]

- Microsoft® Windows® 98
- Online User's Guide
- ThinkPad Configuration Program
- ThinkPad Utilities
- IBM Update Connector
- RingCentral Fax
- Ergonomics
- IBM Registration
- Puma IntelliSync 97 (infrared)
- IBM Global Network Dialer
- Netscape Navigator web browser
- Lotus® SmartSuite Millennium[20]
- PC Doctor
- ConfigSafe
- Norton AntiVirus (OEM Version)
- ThinkPad on the Net (TCC CD)

✧ Customization Center CD-ROM
✧ Lotus SmartSuite Millennium CD-ROM
✧ Product Recovery CD-ROM

	LCD	External Monitor		
Resolution	TFT	60Hz	75Hz	85Hz
640x480	16M	16M	16M	16M
800x600	16M	16M	16M	16M
1024x768	16M	16M	16M	16M
1280x1024	--	256	--	--

The **ThinkPad Port Replicator with Advanced EtherJet Feature** provides cable management, additional I/O ports, CardBus PC Card slots, and 10/100 ethernet with Wake on LAN™[28]. Features:

- 10/100 ethernet (Intel 82558, Wake on LAN)
- Dual IBM lock slots to secure the ThinkPad, PC Cards, and Port Replicator
- USB, serial (RS-232, 9 pin), parallel (25 pin), external display, keyboard, mouse
- Audio in and out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- Power connector
- Two Type III PC Card slots (side by side)
  - PC Card Standard 95 compliant
  - CardBus compliant (PCI 2.1 / 32-bit)
  - PCMCIA 2.1 (no Zoomed Video)

OPTIONS

- 32MB SO DIMM 3.3v NP SDRAM	76H0294
- 64MB SO DIMM 3.3v NP SDRAM	20L0241
- 128MB SO DIMM 3.3v NP SDRAM	01K1150
- ThinkPad 560 Port Replicator	46H4209
- Port Replicator w/ Advanced EtherJet	05K4872
- ThinkPad 390/i Series Li-Ion Battery	02K6513
- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- 6.4GB disk with UltraBay FX adapter	05K8923
- 10GB disk with UltraBay FX adapter	05K8983
- 900MHz Cordless Computer Conn	04K0064
- V.90 PC Card Modem with XJACK[24]	10L7393
- 10/100 Ethernet CardBus PC Card	08L3147
- Smart Card Security Kit	10L7333
- DVD/Diskette (for UltraBay FX)	05K8921

- Visit www.ibm.com/pc/us/accessories (U.S.) or www.ibm.com/pc/ca/accessories (CA)

- ThinkPad Proven™ solutions[12] (visit www.ibm.com/pc/us/thinkpad/proven)

Pressing F1 during startup brings up IBM BIOS Setup Utility

3.2GB = Ultra DMA/33 or PIO Mode 4
4.3GB = Ultra DMA/33 or PIO Mode 4
6.4GB = Ultra DMA/33 or PIO Mode 4
10GB = Ultra DMA/33 or PIO Mode 4
All disks are S.M.A.R.T.[29] compliant

FEATURES

Wired for Management 1.1a compliant
DMI 2.0 compliant
PC 97 compliant
ACPI ready (APM enabled)
Wake on LAN™ support[28]
Setup Guide, User's Reference, Windows 98 manual, and Quick Reference Card
System Status Indicators
Plug and Play 1.0a
Standby, suspend, and hibernation modes
ENERGY STAR compliant
International Warranty Service[14]
IBM SystemXtra™[35]
24 hour / 7 day telephone[30]**, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support**

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IBM ThinkPad® 390E - withdrawn

IBM® ThinkPad®

Processor	**Intel® Mobile Celeron™ 300 or 366MHz**[1] **or Mobile Pentium® II 300PE or 333MHz** / 66MHz system bus
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Intel Mobile Module (MMC2)
L2 cache	*Celeron:* **128KB**; *Pentium II:* **256KB**; *All:* **onboard (full speed)** / sync pipelined burst / ECC / write-back
Diskette drive	Internal 3.5" 1.44MB / removable from UltraBay FX / on right side / integrated with CD-ROM / no external diskette port
CD-ROM	**CD-ROM / 24X-10X**[5] **speed** / ATAPI / bootable / removable from UltraBay FX / on right side / integrated with diskette drive
DVD-ROM	*Option:* Removable UltraBay FX option / 2X[5] DVD integrated with a diskette drive

Type - model	✂ **2626-90U**	✂ **2626-C0U**	✂ **2626-D0U**	✂ **2626-E0U**	✂ **2626-ENU**	✂ **2626-A0U**	✂ **2626-B0U**
Processor	**Celeron 300MHz**	**PII 300PEMHz**	**PII 300PEMHz**	**PII 333MHz**	**PII 333MHz**	**PII 333MHz**	**Celeron 366**
Disk - size / ms	**3.2GB**[4] / 13ms	**3.2GB** / 13ms	**4.3GB** / 13ms	**6.4GB** / 12ms	**6.4GB** / 12ms	**None**	**4.8GB** / 12/14ms
Preload (see side)	**Windows 98**	**Windows 98**	**Windows 98**	**Windows 98**	**NT 4.0**	**None**	**Windows 98**
Available date	March 1999	March 1999	March 1999	March 1999	March 1999	April 1999	June 1999
Display (diagonal)	**12.1" TFT SVGA**	**13.3" TFT XGA**	**14.1" TFT XGA**	**14.1" TFT XGA**	**14.1" TFT XGA**	**14.1" TFT XGA**	**12.1" TFT SVGA**
Display - size and type Display - technology	**12.1" TFT color** 308mm **/ Active Matrix** **SVGA / 800x600** / 30ms / 150 nits **16.7 millioncolors** / 100 to 1 contrast		**13.3" TFT color** 338mm **/ Active Matrix** **XGA / 1024x768** / 30ms / 120 nits **16.7 million colors** /100 to 1 contrast		**14.1" TFT color** 358mm **/ Active Matrix** **XGA / 1024x768** / 20 to 30ms / 120 nits **16.7 million colors** / 150 to 1 contrast		

Graphics - controller	**NeoMagic™ MagicMedia256AV™** (NM2200) / 128-bit engine, 256-bit memory interface / **1X AGP** / DDC2B / **2.5MB** / SGRAM (embedded) / **motion compensation** / color space conversion / interpolation in X and Y axis
Graphics - features	Simultaneous LCD and CRT[26] / 150 degree tilt / multiple-monitor support[26]

Memory - std / max	**32MB** / 256MB[33]	**64MB** / 256MB[33]	**0MB** / 256MB[33]	**32MB** / 256MB[33]
Memory - features	**SDRAM** / non-parity / 66MHz / 3.3 volt / 64-bit 2 sockets for JEDEC 144-pin SO DIMMs / one socket used by std memory / Sockets accessed from bottom via removing cover held by phillips-head screw			

Disk controller	EIDE / PCI 2.1 / one internal disk / disk can be removed to upgrade by customer / supports two internal disks/ 13ms read / 14ms write / S.M.A.R.T.[29]
Keyboard	Full-size 85-key (7 Fn key functions) / palm rest / keyboard slope with tilt feet
Pointing	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace / Center button for scrolling (Internet Scroll Bar) or magnifying glass / spare caps
Dimensions	*90U/C0U/B0U:* 12.4 x 10.1 x 1.8" (225 cu in) *Others:* 12.4 x 10.2 x 1.8"
Weight[2] (with batt/disk)	*Celeron models:* 7.5 lbs (3.4 kg) *Pentium models:* 7.7 lbs (3.5 kg)
Case material	PC/ABS plastic
Battery - type	*90U/C0U/D0U/B0U:* NiMH / intelligent / left side *Others:* Li-Ion / intelligent
Battery - life[10] (1 batt)	*90U/C0U:* 3.0 hrs *D0U:* 4 hrs *E0U/ENU:* 3.8 hrs *B0U:* 2.67 hrs
Charge time[10]	*90U/C0U/B0U:* 5 hrs on / 2.5 hrs off *Others:* 6 hrs on / 3 hrs off
Architecture	**Intel 440BX AGPset / Intel PIIX4E** (EIDE, PCI to ISA bridge, USB) Texas Instruments® **TI1251A** PCMCIA controller / NS PC97338 (FDC, IR, I/O) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB, audio, modem) ISA (diskette, serial, parallel, infrared)
Docking station	None
Port replicator	ThinkPad Port Replicator with Advanced EtherJet™ / ThinkPad 560 Port Replic
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed video
USB / serial / parallel	**One USB** / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Ultraslim AC adapter, barrel, 3-prong, 56 watts
Video (TV) out	S-Video out connector on side (does not require cable) / Chrontel Ch7004C-T
MPEG decoder	None (W98 support for MPEG-2 because 300MHz with motion compensation)
Data/fax modem	**56K**[37] V.90 / integrated in system / PCI / Lucent 1646 / not voice-capable
Audio	16-bit SoundBlaster Pro™ compatible / ESS 1946 / PCI / full duplex
Speakers	Two Altec Lansing® stereo speakers on display (1 watt)
Audio features	Dial volume control (right side) / internal microphone
Audio in/out jacks	Microphone jack (stereo) / headphone jack (stereo) / line-in jack
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps
Security	Power-on password / setup password / disk password / security keyhole / security screw for UltraBay FX
Limited warranty[11]	**1 year** - carry-in or ThinkPad EasyServ™[31] (door-to-door depot repair service)
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date

WINDOWS 98 PRELOAD[16]

- Microsoft® Windows® 98
- Online User's Guide
- ThinkPad Configuration Program
- ThinkPad Utilities
- IBM Update Connector
- RingCentral Fax
- Ergonomics
- Intelliquest Registration
- Puma IntelliSync 97 (infrared)
- IBM Global Network Dialer
- Netscape Communicator
- Lotus® SmartSuite Millennium[20]
- PC Doctor
- ConfigSafe
- Norton AntiVirus (OEM Version)
- ThinkPad on the Net (TCC CD)
- Universal Management Agent

✧ Customization Center CD
✧ Lotus SmartSuite Millennium CD-ROM
✧ Recovery CD-ROM (Windows 98)
✧ Recovery CD-ROM (Windows 95)[7]

WINDOWS NT PRELOAD[16]

- Microsoft Windows NT® 4.0
- Service Pack 4
- ThinkPad Utilities
- Online User's Guide
- ThinkPad Configuration Program
- Ergonomics
- IBM Registration
- Puma IntelliSync 97 (infrared)
- IBM Global Network Dialer
- Netscape Communicator
- Lotus SmartSuite Millennium[20]
- Universal Management Agent
- ConfigSafe
- Norton AntiVirus (OEM Version)
- IBM Update Connector
- SystemSoft CardWizard
- Universal Management Agent

✧ Software Selections CD-ROM
✧ Recovery CD-ROM (Windows NT)

Color depth	LCD	External Monitor		
Resolution	TFT	60Hz	75Hz	85Hz
640x480	16M	16M	16M	16M
800x600	16M	16M	16M	16M
1024x768	16M	16M	16M	16M
1280x1024	--	256	--	--

All models:
- C: drive is FAT16 of 2GB
- D: drive is FAT32 of remaining space

The right bay (UltraBay FX) has a device lock on the bottom of the system and a bay LED which should be off to safely remove a device; it supports:
- standard diskette/CD-ROM (warm swap; W98)
- optional DVD/CD-ROM (warm swap; W98)
- optional second battery (hot swap; W98/NT); same battery as main one
- optional second disk (cold swap)
- optional ThinkPad Proven™ solutions[12]

OPTIONS

- 32MB SO DIMM 3.3v NP SDRAM	76H0294
- 64MB SO DIMM 3.3v NP SDRAM	20L0241
- 128MB SO DIMM 3.3v NP SDRAM	01K1150
- ThinkPad 560 Port Replicator	46H4209
- Port Replicator w/ Advanced EtherJet	05K4872
- ThinkPad 390/i Series Li-Ion Battery	02K6513
- Ultraslim 56 watt AC Adapter (3-prong)	02K6545
- 6.4GB disk with UltraBay FX adapter	05K8923
- 10GB disk with UltraBay FX adapter	05K8983
- DVD/Diskette (for UltraBay FX)	05K8921
- CD/Diskette (for UltraBay FX)	05K8986
- 900MHz Cordless Computer Conn	04K0064
- V.90 PC Card Modem with XJACK[24]	10L7393
- 10/100 Ethernet CardBus PC Card	08L3147
- Smart Card Security Kit	33L5075
- ThinkPad Proven™ solutions[12] (visit www.ibm.com/pc/us/thinkpad/proven)	

Pressing F1 during startup brings up IBM BIOS

FEATURES

Wired for Management 1.1a compliant
DMI 2.0 compliant
PC 98 compliant
ACPI ready (APM enabled)
Wake on LAN® support[28]
Setup Guide, User's Reference, Windows OS manual, and Quick Reference Card
System Status Indicators
Plug and Play 1.0a
Standby, suspend, and hibernation modes
ENERGY STAR compliant
International Warranty Service[14]
IBM SystemXtra®, [35]
24 hour / 7 day[30] telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

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✂ Withdrawn from marketing by December 1999
(390E) © IBM Corp. December 1999

IBM ThinkPad® 390X - withdrawn

IBM® ThinkPad®

Processor	**Intel® Mobile Celeron™ 400MHz[1] or Mobile Pentium® II 400MHz** / 66MHz system bus				
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Intel Mobile Module (MMC2)				
L2 cache	*Celeron:* **128KB**; *Pentium II:* **256KB**; *All:* **onboard (full speed)** / sync pipelined burst / ECC / write-back				
Diskette drive	Internal 3.5" 1.44MB / removable from UltraBay™ FX / on right side / integrated with CD-ROM / no external disktte port				
CD-ROM	**CD-ROM / 24X-10X[5] speed** / ATAPI / bootable / removable from UltraBay FX / on right side / integrated with diskette drive				
DVD-ROM	*Option:* Removable UltraBay FX option / 4X-1X[5] DVD integrated with a diskette drive				
Type - model	**2626-F0U**	**2626-H0U**	**2626-HNU**	**2626-J0U**	**2626-JNU**
Processor / MHz	**Celeron 400**	**Pentium II 400**	**Pentium II 400**	**Pentium II 400**	**Pentium II 400**
Disk - size / read ms	**4.8GB**[4] / 13ms	**6.4GB** / 12ms	**6.4GB** / 12ms	**6.4GB** / 12ms	**6.4GB** / 12ms
Preload (see side)	**Windows 98**	**Windows 98**	**NT 4.0**	**Windows 98**	**NT 4.0**
Avail / withdrawn date	Sept 99 / Jul 00	Sept 99 / Jul 00	Sept 99 / Jul 00	Sept 99 / Jul 00	Sept 99 / Jul 00
Display (diagonal)	**12.1" TFT SVGA**	**14.1" TFT XGA**	**14.1" TFT XGA**	**15" TFT XGA**	**15" TFT XGA**
Display - size and type Display - technology	**12.1" TFT color** 308mm **/ Active Matrix** **SVGA / 800x600** / 20 to 30ms / 150 nits **16.7 million colors** / 150 to 1 contrast		**14.1" TFT color** 358mm **/ Active Matrix** **XGA** / **1024x768** / 20 to 30ms / 120 nits **16.7 million colors** /150 to 1 contrast		**15.0" TFT color** 381mm **/ Active Matrix** **XGA** / **1024x768** / 10 to 30ms / 120 nits **16.7 million colors** / 150 to 1 contrast
Graphics controller	**NeoMagic™ MagicMedia256AV™** (NM2200) / 128-bit engine, 256-bit memory interface / **1X AGP** / DDC2B / **2.5MB** / SGRAM (embedded) / **motion compensation** / color space conversion / interpolation in X and Y axis Simultaneous LCD and CRT[26] / 150 degree tilt / multiple-monitor support[26]				
Memory - std / max	**64MB** / 512MB[33]				
Memory - features	**SDRAM** / non-parity / 100MHz / PC100-compliant / 3.3 volt / 64-bit / 2 sockets for JEDEC 144-pin SO DIMMs / one socket used by std memory / Sockets accessed from bottom via removing cover held by phillips-head screw				
Disk controller	EIDE / PCI 2.1 / one internal disk / disk can be removed to upgrade by customer / supports two internal disks / 13ms read / 14ms write / S.M.A.R.T.[29]				
Keyboard	Full-size 85-key (7 Fn key functions) / palm rest / keyboard slope with tilt feet				
Pointing	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace / center button for scrolling (Internet Scroll Bar) or magnifying glass / spare caps				
Dimensions	*12.1"/14.1":* 12.4 x 10.1 x 1.8" (225 cu in) *15":* 12.9 x 10.6 x 1.8" (246 cu)				
Weight[2] (with batt/disk)	*12.1" and 14.1" models:* 7.5 lbs (3.4 kg) *15" models:* 7.9 lbs (3.6 kg)				
Case material	PC/ABS plastic				
Battery - type	*F0U:* NiMH / intelligent / left side *Others:* Li-Ion / intelligent / left side				
Battery - life[10] (1 batt)	*F0U:* 2.5 hrs *Gxx/Hxx:* 3.67 hrs *Jxx:* 3.5 hrs				
Charge time[10]	*F0U/Hxx:* 5 hrs on / 2.5 hrs off *Jxx:* 6 hrs on / 3 hrs off				
Architecture	**Intel 440BX AGPset / Intel PIIX4E** (EIDE, PCI to ISA bridge, USB) Texas Instruments® **TI1251B** PCMCIA controller / NS PC97338 (FDC, IR, I/O) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB, audio, modem) ISA (diskette, serial, parallel, infrared)				
Docking station	None				
Port replicator	ThinkPad Port Replicator with Advanced EtherJet™ / Basic Port Replicator				
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed video				
USB / serial / parallel	**One USB** / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)				
Other features	APM-aware BIOS / Ultraslim AC adapter, barrel, 3-prong, 56 watts				
Video (TV) out	S-Video out connector on side (does not require cable) / Chrontel Ch7004C-T				
MPEG decoder	None (W98 support for MPEG-2 because 300MHz with motion compensation)				
Data/fax modem	**56K**[22] V.90 / integrated in system / PCI / Lucent 1646 / not voice-capable / conforms to earlier draft specs similar to Mini PCI Type IIIb				
Audio	16-bit SoundBlaster Pro™ support / ESS 1946 / PCI / full duplex				
Speakers	Two Altec Lansing® stereo speakers (1 watt) on display (on front for 15" mod)				
Audio features	Dial volume control (right side) / internal microphone				
Audio in/out jacks	Microphone jack (stereo) / headphone jack (stereo) / line-in jack				
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps				
Security	Power-on password / setup password / disk password / security keyhole / security screw for UltraBay FX				
Limited warranty[11]	**1 year** - carry-in or ThinkPad EasyServ™[31] (door-to-door depot repair service)				
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date				

WINDOWS 98 PRELOAD[16]

- Microsoft® Windows® 98
- Access ThinkPad
- Online User's Guide
- ThinkPad Configuration Program
- ThinkPad Utilities
- IBM Update Connector
- RingCentral Fax
- Ergonomics
- Intelliquest Registration
- Puma IntelliSync 97 (infrared)
- IBM Global Network Dialer
- Netscape Communicator
- Lotus® SmartSuite® Millennium[20]
- PC-Doctor
- ConfigSafe®
- Norton AntiVirus™ (OEM Version)
- Universal Management Services
- ✧ Software Selections CD
- ✧ Lotus SmartSuite Millennium CD-ROM
- ✧ Recovery CD-ROM (Windows 98)
- ✧ Recovery CD-ROM (Windows 95)[7]

WINDOWS NT PRELOAD[16]

- Microsoft Windows NT® 4.0
- Service Pack 4
- ThinkPad Utilities
- Online User's Guide
- ThinkPad Configuration Program
- Ergonomics
- Intelliquest Registration
- Puma IntelliSync 97 (infrared)
- IBM Global Network Dialer
- Netscape Communicator
- ConfigSafe
- Norton AntiVirus (OEM Version)
- IBM Update Connector
- SystemSoft CardWizard
- Universal Management Services
- ✧ Software Selections CD-ROM
- ✧ Lotus SmartSuite Millennium CD-ROM
- ✧ Recovery CD-ROM (Windows NT)

Color depth	LCD	External Monitor		
Resolution	TFT	60Hz	75Hz	85Hz
640x480	16M	16M	16M	16M
800x600	16M	16M	16M	16M
1024x768	16M	16M	16M	16M
1280x1024	--	256	--	--

All models:
- C: drive is FAT16 of 2GB
- D: drive is FAT32 of remaining space

The right bay (UltraBay FX) has a device lock on the bottom of the system and a bay LED which should be off to safely remove a device; it supports:
- standard diskette/CD-ROM (warm swap with Windows 98)
- optional DVD/CD-ROM (warm swap; W98)
- optional second battery (hot swap; W98/NT); same battery as main one
- optional second disk (cold swap)
- optional ThinkPad Proven™ solutions[12]

OPTIONS

- 32MB SO DIMM 100MHz NP SDRAM	20L0253
- 64MB SO DIMM 100MHz NP SDRAM	20L0254
- 128MB SO DIMM 100Mz NP SDRAM	20L0255
- 256MB SO DIMM 100Mz NP SDRAM	33L3069
- Basic (ThinkPad 560) Port Replicator	46H4209
- Port Replicator w/ Advanced EtherJet	05K4872
- ThinkPad 390/i Series Li-Ion Battery	02K6513
- Ultraslim 56 watt AC Adapter (3-prong)	02K6545
- 6.4GB disk with UltraBay FX adapter	05K8923
- 10GB disk with UltraBay FX adapter	05K8983
- 12GB disk with UltraBay FX adapter	05K9268
- 4X-1X DVD/Diskette (for UltraBay FX)	05K9129
- CD/Diskette (for UltraBay FX)	05K8986
- 10/100 EtherJet Ready Port CardBus Adapter with 56K modem	34L1301
- 10/100 Ethernet CardBus PC Card	08L3147
- IBM Portable Drive Bay	37L1511
- ThinkPad Proven™ solutions[12] (visit www.ibm.com/pc/us/thinkpad/proven)	

Pressing F1 during startup brings up IBM BIOS Setup Utility

FEATURES

Wired for Management 1.1a-compliant
DMI 2.0-compliant
PC 98-compliant
ACPI ready (APM enabled)
Wake on LAN® support[28]
Setup Guide, User's Reference, Windows OS manual, and Quick Reference Card
System Status Indicators
Plug and Play 1.0a
Standby, suspend, and hibernation modes
ENERGY STAR-compliant
International Warranty Service[14]
IBM SystemXtra®,[35]
24 hour / 7 day[30] telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

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IBM ThinkPad® 390X (Pentium III) - withdrawn

IBM® ThinkPad®

Processor	**Intel® Mobile Mobile Pentium® III 450 or 500MHz[1] / 100MHz system bus**				
Processor features	No upgrade / processor, L2 cache, and memory controller (North Bridge) on Intel Mobile Module (MMC2)				
L2 cache	**256KB** / at processor speed / sync pipelined burst / ECC / write-back				
Diskette drive	Internal 3.5" 1.44MB / removable from UltraBay™ FX / on right side / integrated with CD-ROM / no external disktte port				
CD-ROM	**CD-ROM / 24X-10X[5] speed** / ATAPI / bootable / removable from UltraBay FX / on right side / integrated with diskette drive				
DVD-ROM	*Option:* Removable UltraBay FX option / 4X-1X[5] DVD integrated with a diskette drive				
Type - model	✂ **2626-L0U**	✂ **2626-LNU**	✂ **2626-L2U**	✂ **2626-M0U**	✂ **2626-MNU**
Processor / MHz	**Pentium III 450MHz**	**Pentium III 450MHz**	**Pentium III 450MHz**	**Pentium III 500MHz**	**Pentium III 500MHz**
Disk - size / read ms	**12.0GB**[4] / 12ms	**12.0GB** / 12ms	**12.0GB** / 12ms	**12.0GB** / 12ms	**12.0GB** / 12ms
Preload (see side)	**Windows 98 SE**	**NT 4.0**	**Windows 2000**	**Windows 98 SE**	**NT 4.0**
Avail / withdrawn date	Dec 1999 / Oct 2000	Dec 1999 / Oct 2000	Feb 2000 / Oct 2000	Dec 1999 / Jan 2001	Dec 1999 / Jan 2001
Display (diagonal)	**14.1" TFT XGA**	**14.1" TFT XGA**	**14.1" TFT XGA**	**15" TFT XGA**	**15" TFT XGA**
Display - size and type	**14.1" TFT color** 358mm **/ Active Matrix**			**15.0" TFT color** 381mm **/ Active Matrix**	
Display - technology	**XGA** / **1024x768** / 20 to 30ms / 120 nits **16.7 million colors** /150 to 1 contrast			**XGA** / **1024x768** / 10 to 30ms / 120 nits **16.7 million colors** / 150 to 1 contrast	
Graphics controller	**NeoMagic™ MagicMedia256AV™** (NM2200) / 128-bit engine, 256-bit memory interface / **1X AGP** / DDC2B / **2.5MB** / SGRAM (embedded) / **motion compensation** / color space conversion / interpolation in X and Y axis / simultaneous LCD and CRT[26] / 150 degree tilt / multiple-monitor support[26]				
Memory - std / max	**64MB** / 512MB[33]				
Memory - features	**SDRAM** / non-parity / 100MHz / PC100-compliant / 3.3 volt / 64-bit / 2 sockets for JEDEC 144-pin SO DIMMs / one socket used by std memory / sockets accessed from bottom via removing cover held by phillips-head screw				
Disk controller	EIDE / PCI 2.1 / one internal disk / disk can be removed to upgrade by customer / supports two internal disks / 13ms read / 14ms write / S.M.A.R.T.[29]				
Keyboard	Full-size 85-key (7 Fn key functions) / palm rest / keyboard slope with tilt feet				
Pointing	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace / center button for scrolling (Internet Scroll Bar) or magnifying glass / spare caps				
Dimensions[36]	*14.1"mod:* 12.4 x 10.2 x 1.8" (228 cu in) *15" mod:* 12.9 x 10.6 x 1.8" (246 cu)				
Weight[2] (with batt/disk)	*14.1" models:* 7.7 lbs (3.5 kg) *15" models:* 7.9 lbs (3.6 kg)				
Case material	PC/ABS plastic				
Battery - type	Li-Ion / intelligent / left side				
Battery - life[10] (1 batt)	*14.1" models:* 3.7 hrs *15" models:* 3.3 hrs				
Charge time[10]	*14.1" models:* 5 hrs on / 2.5 hrs off *15" models:* 6 hrs on / 3 hrs off				
Architecture	**Intel 440BX AGPset / Intel PIIX4E** (EIDE, PCI to ISA bridge, USB) / Texas Instruments® **TI1251B** PCMCIA controller / NS PC97338 (FDC, IR, I/O) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB, audio, modem) ISA (diskette, serial, parallel, infrared)				
Docking station	None				
Port replicator	ThinkPad Port Replicator with Advanced EtherJet™ / Basic Port Replicator				
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed video				
USB / serial / parallel	**One USB** / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)				
Other features	APM-aware BIOS / Ultraslim AC adapter, barrel, 3-prong, 56 watts				
Video (TV) out	S-Video out connector on side (does not require cable) / Chrontel Ch7004C-T				
MPEG decoder	None (W98 support for MPEG-2 because 300MHz with motion compensation)				
Data/fax modem	**56K**[37] V.90 / integrated in system / PCI / Lucent 1646 / not voice-capable / conforms to earlier draft specs similar to Mini PCI Type IIIb				
Audio	16-bit SoundBlaster Pro™ support / ESS 1946 / PCI / full duplex				
Speakers	Two Altec Lansing® stereo speakers (1 watt) on display (on front for 15" mod)				
Audio features	Dial volume control (right side) / internal microphone				
Audio in/out jacks	Microphone jack (stereo) / headphone jack (stereo) / line-in jack				
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps				
Security	Power-on password / setup password / disk password / security keyhole / security screw for UltraBay FX				
Limited warranty[11]	**1 year** - carry-in or ThinkPad EasyServ™[31] (door-to-door depot repair service)				
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date				

WINDOWS 98 PRELOAD[16]

- Microsoft® Windows® 98 Second Edition
- Access ThinkPad
- Online User's Guide
- ThinkPad Configuration Program
- ThinkPad Utilities
- IBM Update Connector
- RingCentral Fax
- ThinkPad on the Net
- Intelliquest Registration
- IBM Global Network Dialer
- Netscape Communicator
- Lotus® SmartSuite® Millennium[20]
- PC-Doctor
- ConfigSafe®
- Norton AntiVirus™ (OEM Version)
- Universal Management Services (web)
- ✧ Software Selections CD
- ✧ Lotus SmartSuite Millennium CD-ROM
- ✧ Recovery CD-ROM (Windows 98)
- ✧ Recovery CD-ROM (Windows 95)[7]

WINDOWS 2000 PRELOAD[16]

- Windows 2000® Professional
- ThinkPad Utilities
- Online User's Guide
- ThinkPad Configuration Program
- IBM Registration
- PC-Doctor
- RingCentral Fax
- Netscape Communicator
- ConfigSafe
- IBM Update Connector
- SystemSoft CardWizard
- Norton AntiVirus™ (OEM Version)
- Universal Management Services (web)
- ✧ Lotus SmartSuite Millennium CD
- ✧ Software Selections CD-ROM
- ✧ Recovery CD-ROM (Windows 2000)
- ✧ Recovery CD-ROM (Windows NT)[40]

Color depth	LCD	External Monitor		
Resolution	TFT	60Hz	75Hz	85Hz
640x480	16M	16M	16M	16M
800x600	16M	16M	16M	16M
1024x768	16M	16M	16M	16M
1280x1024	--	256	--	--

The right bay (UltraBay FX) has a device lock on the bottom of the system and a bay LED which should be off to safely remove a device; it supports:

- standard diskette/CD-ROM (warm swap with Windows 98)
- optional DVD/CD-ROM (warm swap; W98)
- optional second battery (hot swap; W98/NT); same battery as main one
- optional second disk (cold swap)
- optional ThinkPad Proven™ solutions[12]

Windows 2000 model:
- C: drive is FAT32 of entire disk

OPTIONS

- 32MB SO DIMM 100MHz NP SDRAM	20L0253
- 64MB SO DIMM 100MHz NP SDRAM	20L0254
- 128MB SO DIMM 100Mz NP SDRAM	20L0255
- 256MB SO DIMM 100Mz NP SDRAM	33L3069
- Basic (ThinkPad 560) Port Replicator	46H4209
- Port Replicator w/ Advanced EtherJet	05K4872
- ThinkPad 390 Li-Ion Battery	02K6513
- Ultraslim 56 watt AC Adapter (3-prong)	02K6545
- 6.4GB disk with UltraBay FX adapter	05K8923
- 10GB disk with UltraBay FX adapter	05K8983
- 12GB disk with UltraBay FX adapter	05K9268
- 4X-1X DVD/Diskette (for UltraBay FX)	05K9129
- CD/Diskette (for UltraBay FX)	05K8986
- 10/100 EtherJet Ready Port CardBus Adapter with 56K modem	34L1301
- 10/100 Ethernet CardBus PC Card	08L3147
- Smart Card Security Kit	33L5075
- IBM Portable Drive Bay	37L1511
- IBM MultiPort USB Hub	00N8215

FEATURES

Wired for Management 1.1a-compliant
DMI 2.0-compliant
PC 98-compliant
ACPI ready (APM enabled)
Wake on LAN® support[28]
Setup Guide, User's Reference, Windows OS manual, and Quick Reference Card
System Status Indicators
Plug and Play 1.0a
Standby, suspend, and hibernation modes
ENERGY STAR-compliant
International Warranty Service[14]
IBM SystemXtra®, [35]
24 hour / 7 day[30] telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

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✂ = Withdrawn from marketing
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IBM ThinkPad 560 - withdrawn

IBM® ThinkPad®:	⋊ 560 11.3" Dual Scan SVGA color	⋊ 560 12.1" TFT SVGA color
Processor type	**Pentium® 100/66, 120/60, 133/66 MHz** / 64 bit to transfers to memory	
Processor upgrade	None	
L2 cache	None	
Diskette drive	External 3.5" 1.44 MB (connects to left side) / includes case with a cable	
External FDD port	External FDD port (works with standard external diskette; no kit reqd)	
CD-ROM drive	None (CD-ROM drive as OEM option via PCMCIA or parallel port)	

ThinkPad 560 key features:

- **Next generation ultraportable notebook**
- **Slim: 1.2 inches**
- **Lightweight: 4.1 pounds**
- **Full size keyboard**
- **Pentium 100/66 to 133/66 MHz**
- **11.3" Dual Scan SVGA or 12.1" TFT SVGA**
- **PCI bus**
- **8 MB EDO memory**

Price		Pallet of 24		Pallet of 24			Pallet of 24
Type - model	2640-50A	2640-50C	2640-E0A	2640-E0C	2640-F0E	2640-F0D	2640-F0G
Preload (see side)	Windows 95	Blank	Windows 95	Blank	Windows 95	OS/2 Warp Connect	Blank
Avail / withdrawn date	May 96 / June 97 and Apr 97		May 1996 / January 1997		Jul 96 / Apr 97	July 1996 / January 1997	
Pentium speed	**100/66 MHz**		**120/60 MHz**		**133/66 MHz**		
Disk - size / ms	**810 MB** / 13 ms		**810 MB** / 13 ms		**1.08 GB** / 13 ms		
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk						

Display - size and type	**11.3" Dual Scan SVGA color**	**12.1" TFT SVGA color**
Display - techology	11.3" SVGA color / 640 x 480 or 800 x 600 256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio	12.1" SVGA color / 640 x 480 or 800 x 600 / 65,536 sim colors Black Matrix TFT - active matrix / 100 to 1 contrast ratio

Graphics - controller	Trident™ CYBER9382 / 64 bit SVGA accelerator / 1 MB fast page DRAM / 70 ns
Graph - arch/data path	PCI 2.1 / 32 bit / 32 bit path to memory / **DCI, DirectDraw, EnDIVE support**
Gaphics - features	Simultaneous LCD and CRT / 135 degree tilt
Graphics - external	External SVGA to 1024 x 768 w/ 256 colors
Memory - std / max	**8 MB** / 40 MB (72 MB with ThinkPad Proven option)
Memory - features	70 ns / non-parity / 3.3 volt / EDO
Memory - upgrade	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, or 32 MB
Keyboard / # of keys	**Full size** alp/num / 85 (6 Fn key functions)
Keyboard slope	**Large palm rest** / keyboard remains flat (no sloop) / opt P Replicator adds slope
Pointing device	TrackPoint III™ / no drag lock keys
Palm rest	Integrated palm rest / external keyboard support (with optional cable 54G0441)
Dimensions	11.7 x 8.7 x 1.22" (124 cubic inches)
Weight	4.12 pounds (1.87 kg) / 4.10 pounds (1.86 kg)
Battery - type	Lithium Ion / intelligent
Battery - life (1 batt)	3 hours
Charge time - on / off	2.5 to 3.5 hrs / 1.5 hrs
Architecture	ISA (audio, diskette, serial, parallel, infrared) PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, PCMCIA) / Mobile Triton 82430MX
Docking Station	None
Port replicator	ThinkPad 560 Port Replicator
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	Universal AC Adapter 2 prong (35 watts) with barrel connector / APM-aware BIOS / Selectable boot IBM BIOS
Video in/out	None
MPEG decoder	None
DSP function	None
Data/fax modem	None
Audio support	**16 bit audio chip / 18 voice MIDI FM synthesis / ESS1688** Int stereo speakers / .5 watt / rotary volume control / internal microphone
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / not full duplex speaker/mic
Telephone	None
Infrared ports	**Infrared port (left side) / IrDA 1.0 compatible / up to 115 Kbps**
Security	Power-on password / Locking device keyhole on back (Kensington™ cable lock) / Personalization screen at startup
Preinstalled software	Windows 95 with applications (listed on right)
Warranty	**1 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features Program
- PC Card Director 4.0
- Diskette Factory

1. Triton CoSession™ Host
2. Lotus Organizer
3. IntelliLink Connect
4. IBM Internet Connection Services with Netscape Navigator web browser
5. Puma TranXit™
6. Compuserv for Windows
7. NetFinity for Windows 95

- Lotus SmartSuite 96 CD-ROM

OS/2 WARP CONNECT PRELOAD

- IBM OS/2 Warp Connect Version 3 with WIN-OS/2 with BonusPak applications
- Online User's Guide
- ThinkPad Features Program
- PC Card Director 4.0
- Diskette Factory

1. Lotus Organizer
2. Puma TranXit™
3. IntelliLink Connect
4. NetFinity for OS/2
5. Triton CoSession™ Host;

- Lotus SmartSuite 4.0 (entitled to SSuite 96)

BLANK PRELOAD

- License for SmartSuite

The optional **ThinkPad 560 Port Replicator** acts as a wedge which attaches to the back and bottom of the unit and provides a keyboard slope.

Easy-Setup is entered by holding F1 when turning on.

810 MB = DMA Mode 2 or PIO Mode 4
1.08 GB = DMA Mode 2 or PIO Mode 4

Fn + F2 = Battery guage
Fn + F3 = Standby
Fn + F4 = Suspend
Fn + F7 = LCD/CRT/Simultaneous
Fn + F11 = Power mgmt
Fn + F12 = Hibernation

Hardware acceleration of 'Video for Windows'™ is integrated into the 9382 graphics controller; interpolation in X and Y axis; color space conversion when DCI enabled

Compatible in ThinkPad 560 family:

- Disks: (365/760 IDE disks not supported)	
1.08 GB HDD II EIDE 13 ms	46H4208
- 2.1 GB HDD 14 ms	45H8783
- ThinkPad 560 Port Replicator	46H4209
- ThinkPad 560 Li-Ion Battery Pack	46H4206
- 35 watt AC Adapter - barrel/3 prong	85G6719
- 35 watt AC Adapter (slim, 2 pin)	76H0139
- 8 MB SO DIMM 3.3v NP EDO 64 bit	92G7340
- 16 MB SO DIMM 3.3v NP EDO 64 bit	92G7341
- 32 MB SO DIMM 3.3v NP EDO 64 bit	92G7342

Disk is not removable (like 755/760 systems), but it can be upgraded via a dealer or service center (not customer installable).

System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.

FEATURES OF 560 MODELS

Quick Setup Guide
Plug and Play 1.0a
Standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
⋊ = Withdrawn from marketing

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(560) Compiled by Roger Dodson, IBM. June 1997

IBM ThinkPad 560 (1997 models) - withdrawn

IBM® ThinkPad®:	560 11.3" Dual Scan SVGA color	560 12.1" TFT SVGA color
Processor type	**Pentium® 133/66 MHz** / 64 bit to transfers to memory	
Processor upgrade	None	
L2 cache	None	
Diskette drive	External 3.5" 1.44 MB (connects to left side) / includes case with a cable	
External FDD port	External FDD port (works with standard external diskette; no kit reqd)	
CD-ROM drive	None (CD-ROM drive as OEM option via PCMCIA or parallel port)	
Code name	Kinzie 3	
Price		
Type - model	**2640-10U**	**2640-20U**
Preload (see side)	**Windows 95 OSR2**	
Avail / withdrawn date	February 1997 / January 1998	
Disk - size / ms	**2.1 GB** / 14 ms / DMA Mode 2 or PIO Mode 4	
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk	
Display - size and type	**11.3" Dual Scan SVGA color**	**12.1" TFT SVGA color**
Display - techology	11.3" SVGA color / 640 x 480 or 800 x 600 256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio	12.1" SVGA color / 640 x 480 or 800 x 600 / 65,536 sim colors Black Matrix TFT - active matrix / 100 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9382 / 64 bit SVGA accelerator / 1 MB fast page DRAM / 70 ns	
Graph - arch/data path	PCI 2.1 / 32 bit / 32 bit path to memory / DCI, DirectDraw, EnDIVE support	
Gaphics - features	Simultaneous LCD and CRT / 135 degree tilt	
Graphics - external	External SVGA to 1024 x 768 with 256 colors	
Memory - std / max	**8 MB** / 40 MB (72 MB w/ ThinkPad Proven option)	
Memory - features	70 ns / non-parity / 3.3 volt / EDO	
Memory - upgrade	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, or 32 MB	
Keyboard / # of keys	**Full size** alp/num / 85 keys (6 Fn key functions)	
Keyboard slope	**Large palm rest** / keyboard remains flat (no sloop) / opt P Replicator adds slope	
Pointing device	TrackPoint III™ / no drag lock keys	
Palm rest	Integrated palm rest / external keyboard support (with optional cable 54G0441)	
Dimensions	11.7 x 8.7 x 1.22" (124 cubic inches)	
Weight	4.12 pounds (1.87 kg)	4.10 pounds (1.86 kg)
Battery - type	Lithium Ion / intelligent	
Battery - life (1 batt)	3 hours	
Charge time - on / off	2.5 to 3.5 hrs / 1.5 hrs	
Architecture	ISA (audio, diskette, serial, parallel, infrared) PCI 2.1 / 32 bit / 33 MHz (EIDE, graphics, PCMCIA) / Mobile Triton 82430MX	
Docking Station	None	
Port replicator	ThinkPad 560 Port Replicator	
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III	
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	
Other features	Universal AC Adapter 2 prong (35 watts) with barrel connector (slim) / APM-aware BIOS / Selectable boot IBM BIOS	
Video in/out	None	
MPEG decoder	None	
DSP function	None	
Data/fax modem	None	
Audio support	**16 bit audio chip / 18 voice MIDI FM synthesis / ESS1688** Internal stereo speakers / .5 watt / rotary volume control / internal microphone	
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm)	
Telephone	None	
Infrared ports	**Infrared port (left side) / IrDA 1.0 compatible / up to 115 Kbps**	
Security	Power-on password / hard disk password / Locking device keyhole on back (Kensington™ cable lock) / Personalization screen at startup	
Preinstalled software	Windows 95 with applications (listed on right)	
Warranty	**1 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in	

ThinkPad 560 key features:

- **Next generation ultraportable notebook**
- **Slim: 1.2 inches**
- **Lightweight: 4.1 pounds**
- **Full size keyboard**
- **Pentium 133/66 MHz**
- **11.3" Dual Scan SVGA or 12.1" TFT SVGA**
- **PCI bus**
- **8 MB EDO memory**

WINDOWS 95 PRELOAD

- Microsoft Windows 95 OSR2
- Online User's Guide
- ThinkPad Features Program
- PC Card Director 4.0
- Diskette Factory

1. Triton CoSession™ Host
2. Compuserv for Windows
3. NetFinity for Windows 95
4. Puma TranXit™
5. IntelliLink Connect
6. IBM Anti-Virus
7. IGN/Netscape web browser
8. Ergonomics
9. Lotus Organizer

- Lotus SmartSuite 96 CD-ROM -

The optional **ThinkPad 560 Port Replicator** acts as a wedge which attaches to the back and bottom of the unit and provides a keyboard slope. Following are its connectors:

- Release button
- Security keyhole (Kensington)
- Mouse
- Keyboard
- External monitor
- Parallel
- Serial (9 pin)
- External diskette drive
- Power jack

Easy-Setup is entered by holding F1 when turning on.

Fn + F2 = Battery guage
Fn + F3 = Standby
Fn + F4 = Suspend
Fn + F7 = LCD/CRT/Simultaneous
Fn + F11 = Power mgmt
Fn + F12 = Hibernation

Hardware acceleration of 'Video for Windows'™ is integrated into the 9382 graphics controller; interpolation in X and Y axis; color space conversion when DCI enabled

System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.

OPTIONS

- Disks: (365/760 IDE disks not supported)	
1.08 GB HDD II EIDE 13 ms	46H4208
2.1 GB HDD 14 ms	45H8783
4.0 GB HDD 13 ms	02K0501
- ThinkPad 560 Port Replicator	46H4209
- ThinkPad 560 Li-Ion Battery Pack	46H4206
- 35 watt AC Adapter - barrel/3 prong	85G6719
- 35 watt AC Adapter (slim, 2 pin)	76H0139
- 8 MB SO DIMM 3.3v NP EDO 64 bit	92G7340
- 16 MB SO DIMM 3.3v NP EDO 64 bit	92G7341
- 32 MB SO DIMM 3.3v NP EDO 64 bit	92G7342
- 8-20 x Portable CD-ROM	1969010
- 8-20 x Portable Stereo CD-ROM	1969011

- Other options from ThinkPad Proven partners

Disk is not removable (like 755/760 systems), but it can be upgraded via a dealer or service center (not customer installable).

FEATURES OF 560 MODELS

Quick Setup Guide
Plug and Play 1.0a
Standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate indention
Personalization screen at startup
International Warranty Service
IBM System Care Program
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.

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No warranties are expressed or implied in this summary
(56097) Compiled by Roger Dodson, IBM. December 1997

IBM ThinkPad 560E - withdrawn

IBM® ThinkPad®:	560E 11.3" Dual Scan SVGA color	560E 12.1" TFT SVGA color
Processor type	**Pentium® 150/60 MHz or 166/66 MHz / both with MMX technology** / 64 bit transfers to L2 cache and memory	
Processor upgrade	None	
L2 cache	**256 KB** / write-back / direct mapped / 8 ns / synchronous pipelined burst	
Diskette drive	External 3.5" 1.44 MB (connects to left side) / includes case with a cable	
External FDD port	External FDD port (works with standard external diskette; no kit reqd)	
CD-ROM drive	None (CD-ROM drive as OEM option via PCMCIA or parallel port)	
Price		
Type - model (code)	**2640-30U**	**2640-40U** s
Processor	**Pentium 150/60 with MMX**	**Pentium 166/66 MHz with MMX technology**
Preload (see side)	**Windows 95 OSR2**	
Avail / withdrawn date	June 1997 / January 1998	
Disk - size / ms	**2.1 GB** / 14 ms / DMA Mode 2 or PIO Mode 4 / SMART	
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk	
Display - size and type	**11.3" Dual Scan SVGA color**	**12.1" TFT SVGA color**
Display - techology	11.3" SVGA color / 640 x 480 or 800 x 600 65,536 sim colors / Dual Scan / 30 to 1 contrast ratio	12.1" SVGA color / 640 x 480 or 800 x 600 / 65,536 sim colors Black Matrix TFT - active matrix / 100 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9382 / 64 bit SVGA accelerator / 2 MB fast page DRAM / 70 ns	
Graph - arch/data path	PCI 2.1 / 32 bit / 32 bit path to memory / DCI, DirectDraw, EnDIVE support	
Graphics - features	Simultaneous LCD and CRT / 135 degree tilt	
Graphics - external	External SVGA to 1024 x 768 with 256 colors	
Memory - std / max	**16 MB** / 80 MB	
Memory - features	70 ns / non-parity / 3.3 volt / EDO	
Memory - upgrade	1 socket for one JEDEC 144 pin EDO SO-DIMM of 8, 16, 32, 64 MB	
Keyboard / # of keys	**Full size** alp/num / 85 keys (6 Fn key functions)	
Keyboard slope	**Large palm rest** / keyboard remains flat (no sloop) / opt P Replicator adds slope	
Pointing device	TrackPoint III™ / no drag lock keys	
Palm rest	Integrated palm rest / external keyboard support (with optional cable 54G0441)	
Dimensions	11.7" x 8.7" x 1.22" (124 cubic inches)	
Weight	4.1 pounds (1.9 kg)	4.1 pounds (1.9 kg)
Battery - type	Lithium Ion / intelligent	
Battery - life (1 batt)	3 hours	
Charge time - on / off	2.5 to 3.5 hrs / 1.5 hrs	
Architecture	ISA (audio, diskette, serial, parallel, infrared) / NS PC87334 (FDC, IR, I/O) PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, PCMCIA) / Mobile Triton 82430MX	
Docking Station	None	
Port replicator	ThinkPad 560 Port Replicator	
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III / Cirrus Logic® PD6729	
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	
Other features	Universal AC Adapter 2 prong (35 watts) with barrel connector (slim) / APM-aware BIOS / APM 1.2 / Selectable boot / IBM BIOS	
Video in/out	None	
MPEG decoder	None	
DSP function	None	
Data/fax modem	None	
Audio support	**16 bit audio chip / 18 voice MIDI FM synthesis / ESS1688** Internal stereo speakers / .5 watt / rotary volume control / internal microphone	
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / not full duplex speakers/mic	
Telephone	None	
Infrared ports	**Infrared port (left side) / IrDA 1.1 compatible / up to 4 Mbps**	
Security	Power-on password / hard disk password / Locking device keyhole on back (Kensington™ cable lock) / Personalization screen at startup	
Preinstalled software	Windows 95 with applications (listed on right)	
Warranty	**1 year** - ThinkPad EasyServ (depot repair service) or carry-in	
Service options	On-Site, M-F, 8-5, next bus day (71 cities) / Warranty extension to 3 or 5 years	

WINDOWS 95 PRELOAD

- Microsoft Windows 95 OSR2 (FAT16)
- Online User's Guide
- ThinkPad Features Program
- PC Card Director 4.0
- Diskette Factory

1. Triton CoSession™ Host
2. CompuServ for Windows
3. NetFinity for Windows 95
4. Puma TranXit™
5. IntelliLink Connect
6. IBM Anti-Virus
7. IBM Global Network with Netscape web browser
8. Registration Mailer
9. Lotus Organizer
10. Lotus SmartSuite 96

- Lotus SmartSuite 96 CD-ROM
- Recovery CD-ROM with boot diskette
- Windows 95 CD-ROM (no installation)

Disk is not removable (like 755/760 systems), but it can be upgraded via a dealer or service center (not customer installable).

Easy-Setup is entered by holding F1 when turning on.

Fn + F2 = Battery guage
Fn + F3 = Standby
Fn + F4 = Suspend
Fn + F7 = LCD/CRT/Simultaneous
Fn + F11 = Power mgmt
Fn + F12 = Hibernation

Hardware acceleration of 'Video for Windows™ is integrated into the 9382 graphics controller; interpolation in X and Y axis; color space conversion when DCI enabled

System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.

OPTIONS

- Disks: (365/760 IDE disks not supported)	
2.1 GB HDD 14 ms	45H8783
4.0 GB HDD 13 ms	02K0501
- ThinkPad 560 Port Replicator	46H4209
- ThinkPad 560 Li-Ion Battery Pack	46H4206
- 35 watt AC Adapter - barrel/3 prong	85G6719
- 35 watt AC Adapter (slim, 2 pin)	76H0139
- 8 MB SO DIMM 3.3v NP EDO 64 bit	92G7340
- 16 MB SO DIMM 3.3v NP EDO 64 bit	92G7341
- 32 MB SO DIMM 3.3v NP EDO 64 bit	92G7342
- 64 MB SO DIMM 3.3v NP EDO 64 bit	76H0268
- External 4 x PCMCIA CD-ROM	1969008
- Ext 4 x PCMCIA Stereo CD-ROM	1969009
- 8-20 x Portable CD-ROM	1969010
- 8-20 x Portable Stereo CD-ROM	1969011
- PCMCIA 33.6 Kbps modem	25H6420
- PCMCIA 33.6 modem w/ XJACK	55H6759
- 56K PC Card Modem Kit	04K0052
- Other options from ThinkPad Proven partners	

The optional **ThinkPad 560 Port Replicator** acts as a wedge which attaches to the back and bottom of the unit and provides a keyboard slope. Following are its connectors:

- Release button
- Security keyhole
- Mouse
- Keyboard
- External monitor
- Parallel
- Serial (9 pin)
- External diskette drive
- Power jack

FEATURES OF 560E MODELS

Quick Setup Guide
Plug and Play 1.0a
Standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate indention
Personalization screen at startup
International Warranty Service
IBM SystemXtra Program
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).

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No warranties are expressed or implied in this summary
(560E) Compiled by Roger Dodson, IBM. December 1997

IBM ThinkPad® 560X - withdrawn

IBM® ThinkPad®

Processor type	**Pentium® MMX™ 200/66 or 233/66MHz**[1] / 64-bit to L2 and memory	
Processor upgrade	None	
L2 cache	**256KB** / write-back / direct mapped / 8ns / synchronous pipelined burst	
Diskette drive	External 3.5" 1.44MB (connects to left side) / includes case with a cable	
External FDD port	External FDD port (works with standard external diskette; no kit reqd)	
CD-ROM drive	None (CD-ROM drive as option via PCMCIA or parallel port)	
Price		
Type - model (code)	**2640-60U**	**2640-70U**
Processor	**Pentium MMX 200/66MHz**	**Pentium MMX 233/66MHz**
Preload (see side)	**Windows 95 OSR2.1 + IE 4.01**	**Windows 95 OSR2**
Avail / withdrawn date	March 1998 / September 1998	November 1997 / September 1998
Disk - size / ms	**2.1GB**[4] / 14ms / SMART	**4.0GB** / 13ms / SMART
Disk controller	EIDE / busmaster / PCI 2.1 / Ultra DMA/33 or PIO Mode 4 / supports 1 int disk	
Display - size and type	**12.1" HPA SVGA color** (dual scan) 640x480 or 800x600 262,144 simultaneous colors	**12.1" TFT SVGA color** (active matrix) 640x480 or 800x600 262,144 simultaneous colors
Display - techology	30 to 1 contrast / 150ms / 70 nits	100 to 1 contrast ratio
Graphics - controller	**NeoMagic™ MagicGraph128XD™** (NM2160A) / 128-bit SVGA accelerator	
Graph - arch/data path	2MB / iDRAM™ (embedded) / PCI 2.1 / Zoomed Video support	
Graphics - features	Interpolation in X and Y axis / color space conversion	
Graphics - features	Simultaneous LCD and CRT / 135 degree tilt	
Graphics - external	External SVGA to 1024x768 with 65,536 colors (or 800x600 with 16.7 mil)	
Memory - std / max	**32MB** std / 96MB max	
Memory - features	60ns / non-parity / 3.3 volt / EDO	
Memory - upgrade	1 socket for one JEDEC 144 pin EDO SO-DIMM of 8, 16, 32, 64MB	
Keyboard / # of keys	**Full size** alp/num / 85 keys (6 Fn key functions)	
Keyboard slope	**Large palm rest** / keyboard remains flat (no sloop) / opt P Replicator adds slope	
Pointing device	TrackPoint® III / no drag lock keys	
Palm rest	Integrated palm rest / external keyboard support (with optional cable 54G0441)	
Dimensions	11.7" x 8.7" x 1.22" (124 cubic inches); 297 mm x 222 mm x 31 mm	
Weight[2]	4.17 pounds (1.89 kg)	4.14 pounds (1.88 kg)
Battery - type / life[10]	Lithium Ion / intelligent / 3.5 hours	
Charge time - on / off	2.5 to 3.5 hrs / 1.5 hrs	
Architecture	PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB) / ISA (audio, diskette, serial, parallel, infrared) / NS PC97338 (FDC, IR, I/O) **Intel 430TX PCIset / PIIX4** (EIDE, USB, PCI to ISA bridge) / **TI1250A**	
Docking Station	None	
Port replicator	ThinkPad 560 Port Replicator / ThinkPad Enhanced Port Replicator	
PC Card Std slots	2 Type I or 2 Type II or 1 Type III / **CardBus 32-bit PCI** / Zoomed Video PCMCIA 2.1 compatible / Texas Instruments® TI1250A controller	
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	
USB port	**One USB port**	
Other features	Universal AC Adapter; 3 prong (56 watts) with barrel connector / APM-aware BIOS / APM 1.2 / Selectable boot / IBM BIOS	
Video in/out	None	
MPEG decoder	None (software support for MPEG-1 in Windows 95)	
Data/fax modem	None	
Audio support	**16-bit audio chip / FM synthesis / CS4237B / SRS 3D audio** (if use ext speakers) Internal mono speaker / .5 watt / rotary volume control / internal microphone	
Jacks	Input jack (3.5 mm) / stereo output jack (3.5 mm) / not full duplex speakers/mic	
Infrared ports	**Infrared port (left side) / IrDA 1.1 compatible / up to 4Mbps**	
Security	Power-on password / hard disk password / security keyhole on back / personalization screen at startup	
Limited warranty[11]	**1 year** - ThinkPad EasyServ (door-to-door depot repair service) or carry-in	
Service options[15]	On-Site, M-F, 8-5, next bus day (71 cities) / warranty extension to 3 or 5 years	

New features of 560X (compared to 560E):

- 200 or 233MHz Pentium (vs 150 or 166)
- 32MB memory standard (vs 16MB)
- 96MB maximum memory (vs 80MB)
- CardBus and Zoomed Video PC Cards
- One USB port (vs none)
- Supports Enhanced Port Replicator
- 430TX (vs 430MX)
- MagicGraph128XD (vs CYBER9382)
- 256K simultaneous colors (vs 64K)
- 56 watt AC Adapter (vs 35 watt)
- ConfigSafe and LANDesk preloaded

WINDOWS 95 PRELOAD[16]

- Microsoft® Windows® 95 OSR2 (FAT16)
- Online User's Guide
- ThinkPad Features Program
- SystemSoft CardWorks™
- Diskette Factory and Utilities
- Puma TranXit™
- IBM Anti-Virus
- IBM Global Network with Netscape web browser
- Intelliquest Registration Mailer
- Artisoft ConfigSafe
- Intel® LANDesk® Client Manager
- PointCast (with ThinkPad channel)
- Ergonomics
- Lotus® SmartSuite 97
- NetFinity for Windows 95 (license only)

✧ Recovery CD-ROM with boot diskette
✧ Windows 95 CD-ROM (no installation)

Disk is not removable, but it can be upgraded via a dealer or service center (not customer installable).

Easy-Setup is entered by holding F1 when turning on.

System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.

The optional **ThinkPad 560 Port Replicator** acts as a wedge which attaches to the back and bottom of the unit and provides a keyboard slope. Following are its connectors:

- Release button
- Security keyhole
- Mouse
- Keyboard
- External monitor
- Parallel
- Serial (9 pin)
- External diskette drive
- Power jack

ThinkPad Enhanced Port Replicator provides cable management, additional I/O ports, and CardBus PC Card slots. Features include:

- Dual IBM lock slots to secure the ThinkPad, PC Cards, and Port Replicator

Connectors:
- USB
- Serial (RS-232, 9 pin), Parallel (25 pin)
- External display, Keyboard, Mouse
- Audio in and out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- External diskette drive connector
- Power connector

Features of the PC Card slots:
- Two Type III slots (side by side)
- PC Card Standard 95 compliant
- CardBus compliant (PCI 2.1 / 32-bit)
- 8/16-bit PC Card support (no Zoomed Video)

OPTIONS

- 2.1GB disk, 14ms	45H8783
- 4.0GB disk, 13ms	02K0501
- 6.4GB disk, 13ms, Ultra DMA/33	02K0518
- ThinkPad 560 Port Replicator	46H4209
- ThinkPad Enhanced Port Replicator	11J8997
- ThinkPad 560 Li-Ion Battery Pack	46H4206
- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- 8MB SO DIMM 3.3v NP EDO 64-bit	92G7340
- 16MB SO DIMM 3.3v NP EDO 64-bit	92G7341
- 16MB SO DIMM NP EDO 64-bit (new)	01K1124
- 32MB SO DIMM 3.3v NP EDO 64-bit	92G7342
- 64MB SO DIMM 3.3v NP EDO 64-bit	76H0268
- 20X-8X Portable CD-ROM	1969010
- 20X-8X Portable Stereo CD-ROM	1969011
- PCMCIA 33.6Kbps modem	25H6420
- PCMCIA 33.6 modem w/ XJACK	55H6759
- 56K PC Card Modem Kit	04K0052
- 56K PC Card Modem/Cellular Capable	02K4196

FEATURES

Wired for Management 1.1a
DMI 2.0 compliant
PC 97 compliant
Setup Guide, User's Guide, Up and Running
Plug and Play 1.0a
Standby, suspend, safe suspend, and hibernation modes
ENERGY STAR compliant
Personalized nameplate indention
International Warranty Service[14]
IBM SystemXtra™
24 hour / 7 day telephone[30]**, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support**
IBM and dealer warranty/service

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad in most North American locations, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).

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IBM ThinkPad® 560Z - withdrawn

IBM® ThinkPad®

Processor	**Intel® Mobile Pentium® II 233 or 300MHz**[1] / 66MHz system bus			
Processor features	No processor upgrade / processor on Mini-Cartridge			
L2 cache	**512KB** / synchronous pipelined burst / ECC / half speed			
Diskette drive	External 3.5" 1.44MB (connects to left side) / includes case with a cable			
External FDD port	External FDD port (works with standard external diskette; no kit reqd)			
CD-ROM drive	None (CD-ROM drive as option via PCMCIA or parallel port)			
Type - model	**2640-90U**	**2640-91U**	**2640-B0U**	**2640-B1U**
Preload (see side)	**Windows 98**	**NT 4.0**	**Windows 98**	**NT 4.0**
Processor	**Pentium II 233MHz**		**Pentium II 300MHz**	
Disk - size / ms	**4.0GB**[4] / 13ms / SMART[29]		**6.4GB** / 13ms / SMART	
Disk controller	Disk can be removed and upgraded by customer / Ultra DMA/33 or PIO Mode 4 EIDE / busmaster / PCI 2.1 / supports one internal disk			
Avail / withdrawn date	September 1998 / 90U and 91U withdrawn March 1999; others on June 1999			
Display - size and type	**12.1" TFT SVGA color** (active matrix) 640x480 or 800x600 16.7 million simultaneous colors		All models: - C: drive is FAT16 of 2GB - D: drive is FAT32 (if W98) or FAT16 (if NT) of remaining space	
Display - techology	100 to 1 contrast ratio			
Graphics - controller	**NeoMagic™ MagicGraph128XD™** (NM2160) / 128-bit SVGA accelerator			
Graph - arch/data path	**2MB** / iDRAM™ (embedded) / PCI 2.1 / Zoomed Video support			
Graphics - features	Interpolation in X and Y axis / color space conversion			
Graphics - features	Simultaneous LCD and CRT / 135 degree tilt			
Graphics - external	External SVGA to 1024x768 with 65,536 colors (or 800x600 with 16.7 mil)			
Memory - std / max	**32MB** std / 96MB or 160MB* max		**64MB** std / 128MB or 192MB* max	
Memory - features	60ns / non-parity / 3.3 volt / EDO			
Memory - upgrade	1 socket for one JEDEC 144-pin EDO SO-DIMM of 16, 32, or 64MB			
Keyboard / # of keys	**Full size** alp/num keys / 85 keys (6 Fn key functions)			
Keyboard slope	**Large palm rest** / keyboard remains flat (no sloop) / opt P Replicator adds slope			
Pointing device	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace			
Palm rest	Integrated palm rest / external keyboard support (with optional cable 54G0441)			
Dimensions	11.7" x 8.7" x 1.22" (124 cubic inches); 297mm x 222mm x 31mm			
Weight[2] with battery	*90U:* 4.1 lbs (1.88 kg) *B0U/B1U:* 4.2 lbs (1.92 kg)			
Battery - type / life[10]	Lithium Ion / intelligent / 3.0 hours			
Charge time - on / off	2.5 to 3.5 hrs / 1.5 hrs			
Architecture	**Intel 440BX PCIset** / Intel 82371EB **PIIX4E** (EIDE, ISA Bridge, USB) / PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB) / **TI PCI1250A** ISA (audio, diskette, serial, parallel, infrared) / NS PC97338 (FDC, IR, I/O)			
Docking Station	None			
Port replicator	Port Replicator with Advanced EtherJet / ThinkPad 560 Port Replicator			
PC Card Std slots	2 Type I or 2 Type II or 1 Type III / **CardBus 32-bit PCI** / Zoomed Video PCMCIA 2.1 compatible / Texas Instruments® TI1250A controller			
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)			
USB port	**One USB port**			
Other features	Universal AC Adapter; 3 prong (56 watts) with barrel connector / APM-aware BIOS / APM 1.2 / Selectable boot / IBM BIOS			
Video in/out	None			
MPEG decoder	None (software support for MPEG-1 in Windows 98)			
Data/fax modem	**56Kbps**[23] **PC Card modem** / x2 / cellular capable / XJACK / IBM pn 02K4196			
Audio support	**16-bit audio chip / FM synthesis / CS4237B / SRS 3D audio** (if use ext speakers) Internal mono speaker / .5 watt / keyboard volume control / internal microphone			
Jacks	Input jack (3.5 mm) / stereo output jack (3.5 mm) / full duplex speakers/mic			
Infrared ports	**Infrared port (left side) / IrDA 1.1 compatible / up to 4Mbps**			
Security	Power-on password / hard disk password / security keyhole on left side / personalization screen at startup			
Limited warranty[11]	**1 year** - carry-in or ThinkPad EasyServ™[31] (door-to-door depot repair service)			
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date			

WINDOWS 98 PRELOAD[16]

- Microsoft® Windows® 98
- ThinkPad Utilities
- Online User's Guide
- ThinkPad Configuration Program
- ThinkPad on the Net
- IBM Update Connector
- RingCentral Fax
- Ergonomics
- IBM Product Registration
- Puma IntelliSync 97 (infrared)
- IBM Global Network Dialer
- Netscape Navigator web browser
- Lotus® SmartSuite 97
- Artisoft ConfigSafe
- Norton AntiVirus

✧ Customization Center CD-ROM
✧ Product Recovery CD-ROM (with boot diskette)

WINDOWS NT PRELOAD[16]

- Windows NT® Workstation 4.0
- Service Pack 3
- ThinkPad Utilities
- Online User's Guide
- Puma IntelliSync 97 (infrared)
- ConfigSafe
- Norton AntiVirus (OEM Version)
- Ergonomics
- IBM Product Registration
- SystemSoft CardWizard

✧ Customization CD-ROM (apps/drivers)
✧ Product Recovery CD-ROM (with boot diskette)

Easy-Setup is entered by holding F1 when turning on.

System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.

The optional **ThinkPad 560 Port Replicator** acts as a wedge which attaches to the back and bottom of the unit and provides a keyboard slope. Following are its connectors:

- Release button
- Security keyhole
- Mouse
- Keyboard
- External monitor
- Parallel
- Serial (9 pin)
- External diskette drive
- Power jack

ThinkPad Port Replicator with Advanced EtherJet Feature. Features include:

- 10/100 ethernet (Intel 82558, Wake on LAN™)
- Dual IBM lock slots to secure the ThinkPad, PC Cards, and Port Replicator

Connectors:
- USB, serial (RS-232, 9 pin), parallel (25 pin), external display, keyboard, mouse
- Audio in and out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- External diskette drive connector
- Power connector

Features of the PC Card slots:
- Two Type III slots (side by side)
- PC Card Standard 95 compliant
- CardBus compliant (PCI 2.1 / 32-bit)
- PCMCIA 2.1 support (no Zoomed Video)
- TI 1250A controller

OPTIONS

- 6.4GB disk, 13ms, Ultra DMA/33	02K0518
- ThinkPad 560 Port Replicator	46H4209
- Port Replicator w/ Advanced EtherJet™	05K4872
- ThinkPad 560 Li-Ion Battery Pack	46H4206
- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- 16MB SO DIMM 3.3v NP EDO 64-bit	01K1124
- 32MB SO DIMM 3.3v NP EDO 64-bit	92G7342
- 64MB SO DIMM 3.3v NP EDO 64-bit	76H0268
- 20X-8X Portable CD-ROM	1969010
- 20X-8X Portable Stereo CD-ROM	1969011
- 56K PC Card Modem/Cellular Capable	02K4196
- V.90 PC Card Modem with XJACK[24]	10L7393
- ThinkPad Proven™ solutions[12] (visit www.ibm.com/pc/us/thinkpad/proven)	

FEATURES

Wired for Management 1.1a compliant
DMI 2.0 compliant
PC 97 compliant
ACPI ready (APM enabled)
Setup Guide, User's Guide, Windows 98 or NT Manual
Plug and Play 1.0a
Standby, suspend, safe suspend, and hibernation modes
ENERGY STAR compliant
Personalized nameplate indention
International Warranty Service[14]
IBM SystemXtra®,[35]
24 hour / 7 day telephone[30], bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

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No warranties are expressed or implied in this summary
* Maximum memory capacity with 128MB SO DIMM from ThinkPad Proven vendor
(560Z) © IBM Corp. July 1999

IBM ThinkPad® 570 - withdrawn

IBM® ThinkPad®					
Processor	**Intel® Mobile Pentium® II 300PE, 333MHz, or 366MHz**[1] / 66MHz system bus				
Processor features	No upgrade / processor in Ball Grid Array (BGA) / North and South Bridge cores				
L2 cache	**256KB / onboard (full speed)** / sync pipelined burst / write-back / ECC				
Diskette drive	External 3.5" 1.44MB / use externally with std cable or in UltraBase				
CD-ROM	*Option:* **CD-ROM** / 24X-10X[5] speed / bootable / removable from UltraBase				
DVD-ROM	*Option:* **DVD-ROM** / bootable / removable from UltraBase				
Type - model	✂ **2644-2AU**	✂ **2644-1AU**	✂ **2644-1BU**	**2644-3AU**	**2644-3BU**
Processor	**PII 300PE**	**PII 333MHz**	**PII 333MHz**	**PII 366MHz**	**PII 366MHz**
Display (diagonal)	**12.1" TFT**	**13.3" TFT**	**13.3" TFT**	**13.3" TFT**	**13.3" TFT**
Preload (see side)	**Windows 98**	**Windows 98**	**NT 4.0**	**Windows 98**	**NT 4.0**
Disk (removable)	**4.0GB**[4] / 13/14ms			**6.4GB** / 13/14ms	
	PIO4 or Ultra DMA/33 / 9.5mm				
Avail / withdr date	April 1999 / 2AU withdrawn Dec 99; 1AU, 1BU on Mar 2000; 3AU, 3BU on July 00				
Memory (std / max)	**64MB** std / 192MB max **SDRAM** / non-parity / 66MHz / 3.3v / sockets accessed by removing screw on base One 144-pin socket / 64MB on planar / 1 socket available				
Display	**12.1"** (307.3mm) **TFT color / Active Mat** **SVGA / 800x600** / 100 to 1 contrast ratio		**13.3"** (337.8mm) **TFT color / Active Mat** **XGA / 1024x768** / 150 to 1 contrast ratio		
Display - features	16.7 million simultaneous colors / 30ms refresh rate / 150 degree tilt / 125 nits (AC), 70 nits (battery)				
Graphics - controller	**NeoMagic™ MagicMedia256AV™** (NM2200) / **Accelerated Graphics Port** **2.5MB** / SGRAM (embedded) / 128-bit engine, 256-bit memory interface				
Graphics - features	AGP 1X / no sideband signaling / **motion compensation** / DDC2B / simultaneous LCD and CRT[26] / multiple-monitor support[26] for Windows 98				
Disk	Left front / removable via coin screw or 2.5mm Allen wrench / SMART[29] / upgradeable				
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / South Bridge / PIIX4E DMA Mode 2, Ultra DMA/33, or PIO Mode 4 / supports 2nd disk in opt UltraBase				
Keyboard / Fn keys	Full size 85-key keyboard / 10 Fn key functions / integrated palm rest				
Keyboard slope	Flat keyboard (does not lift up) / optional Port Replicator adds slope				
Pointing device	**TrackPoint®** / Press-to-Select / Release-to-Select / dragging / click pace / center click button for scrolling or magnifying glass / suspension top / spare caps				
Dimensions[36]	*2AU:* 11.8 x 9.4 x 1.0" *Others:* 11.8 x 9.4 x 1.1" (122 cubic inches)				
Weight[2]	*2AU:* 3.9 lbs (1.78 kg) with battery *Others:* 4.0 lbs (1.83 kg) with battery				
Weight w/ UltraBase	with CD-ROM and diskette drives: *2AU:* 6.8 lbs (3.07 kg) *Others:* 6.9 lbs (3.12 kg)				
Case material	*Top:* carbon-fiber reinforced plastic; *Bottom:* glass-fiber reinforced plastic				
Battery - type	Lithium Ion / intelligent / remove from base / locked with latch				
Battery - life[10]	*1xx:* 3.3 hrs; *2xx:* 3.5 hrs; *3xx:* 3.0 hrs / supports 2nd battery in UltraBase				
Charge time - on/off	3 to 4 hrs / 2.5 to 3 hrs / no non-disruptive battery exchange				
Architecture	**Intel 440BX AGPset** / Intel 82371EB **PIIX4E** (EIDE, ISA Bridge, USB) / TI® PCI1450 for CardBus / AGP for graphics / ADM1021 digital thermometer / PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, modem, audio, USB, ext expansion) / PC97338 Super I/O / ISA (diskette, serial, parallel, infrared, ext expansion)				
Port replicator (opt)	**UltraBase** / the following are supported by attachment to UltraBase or Direct Dock Adapter: ThinkPad Port Repl with Advanced EtherJet and Port Replicator				
Docking Station	None (UltraBase has two bays)				
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video				
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)				
Other features	Ultraslim 56 watt AC Adapter, barrel, 3 prong / IBM BIOS Setup Utility (hit F1 at boot)				
Video (TV) out	None				
MPEG-2/DVD	Software supported DVD movie playback (via UltraBase and UltraslimBay DVD)				
Data/fax modem	**56K**[37] / V.90 / 14.4K fax / RJ-11 port / voice-capable / integrated Lucent® 1646 / international programmable DAA / Mini PCI Type IIIb				
Audio support	CS4280 / PCI / FM synthesis / 16-bit playback and record / CS4297 (AC97) / full duplex / int speaker (bottom) / .5 watt / Fn+PgUp and PgDn (volume) / int mic				
Jacks (3.5mm)	Microphone jack (stereo) / headphone jack (stereo) / line-in jack (stereo)				
Infrared ports	Infrared port (on right) / IrDA 1.1 compatible / up to 4Mbps				
Security	Power-on password / hard disk password / supervisor passwrd / security keyhole / Phillips-head screw on base for memory / optional Allen screw for disk				
Limited warranty[11]	**3 year** - carry-in or ThinkPad EasyServ™[31] Rapid Depot Repair (3 business day average turnaround)				
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date				

WINDOWS 98 PRELOAD[16]

- Microsoft® Windows® 98
- ThinkPad Utilities
- ThinkPad Configuration Program
- ThinkPad on the Net
- IBM Update Connector
- Online User's Guide
- Ergonomics
- Intelliquest Registration
- RingCentral
- Puma Intellisync 97 (on CD)
- IBM Global Network Dialer
- Netscape Communicator
- ConfigSafe®
- Norton AntiVirus™ (OEM Version)
- PC-Doctor
- Universal Management Agent (on CD)
- Norton Mobile Essentials
- Lotus® SmartSuite® Millennium[20]
- Access ThinkPad
- ✧Software Selections CD-ROM
- ✧Recovery CD-ROM (Windows 98)
- ✧Recovery CD-ROM (Windows 95)[7]

WINDOWS NT PRELOAD[16]

- Microsoft Windows NT® 4.0
- Service Pack 4a
- ThinkPad Utilities
- ThinkPad Configuration Program
- IBM Update Connector
- Online User's Guide
- Ergonomics
- Intelliquest Registration
- RingCentral (on CD)
- Puma Intellisync 97 (on CD)
- IBM Global Network Dialer (on CD)
- Netscape Communicator (on CD)
- ConfigSafe
- Norton AntiVirus (OEM Version)
- PC-Doctor
- Universal Management Agent (on CD)
- Access ThinkPad (on CD)
- SystemSoft CardWizard (on CD)
- ✧Software Selections CD-ROM
- ✧Recovery CD-ROM (Windows NT)
- ✧Lotus SmartSuite Millennium[20] CD

ULTRABASE OPTION

Left bay of UltraBase supports most UltraslimBay options:

- optional CD-ROM (hot or warm swap)
- optional DVD drive (hot or warm swap)
- optional LS-120 SuperDisk drive (cold swap only)
- optional Zip 100MB drive (cold swap)
- optional HDD adapter; for second disk (cold swap only)
- optional ThinkPad Proven™ solutions[12]

UltraBase right bay supports:

- standard diskette drive (hot swap)
- battery (uses standard 570 battery)

Other features

- stereo speakers (0.5 watts)
- security keyhole, UltraBase lock
- MIDI/joystick port, line out, USB port

- 32MB SO DIMM 3.3v NP SDRAM	76H0294
- 64MB SO DIMM 3.3v NP SDRAM	20L0241
- 128MB SO DIMM 3.3v NP SDRAM	01K1150

Color depth	LCD	External Monitor			
Resolution	TFT	60Hz	70Hz	75Hz	85Hz
640x480	16M	16M	--	16M	16M
800x600	16M	16M	--	16M	16M
1024x768*	16M	16M	16M	16M	16M
1280x1024**	256	256	--	--	--

* Virtual screen mode on 12.1" TFT screen
** Virtual screen mode on both 12.1" and 13.3"

All models:

- C: drive is FAT16 of 2GB
- D: drive is FAT32 (if W98) or FAT16 (if NT) of remaining space

- 6.0GB disk, 12ms, ATA-66	05K9199
- 6.4GB disk, 13ms, Ultra DMA/33	02K0518
- 10.0GB disk, 12ms, Ultra DMA/33	36L9293
- 12.0GB disk, 12ms, ATA-66	05K9200
- 18.0GB disk, 12ms, ATA-66	37L2993
- ThinkPad 570 UltraBase	**05K5840**
- Direct Dock Adapter (from CompuLock)	00N4650
- Port Replicator	46H4209
- Port Replicator w/ Advanced EtherJet	05K4872
- Ultraslim 56 watt AC Adapter (3 prong)	02K6545
- UltraslimBay HDD adapter (for 2nd disk)	05K5336
- SuperDisk LS-120 (UltraslimBay)	20L1929
- 24X-10X[5] CD-ROM (UltraslimBay)	05K9122
- 2X[5] DVD Drive (UltraslimBay)	05K8890
- 6X-2X[5] DVD Drive (UltraslimBay)	05K9169
- Zip 100MB Drive 570/600(UltraslimBay)	37L1507
- ThinkPad 570 Li-Ion Battery	02K6546

PC 98 and DMI 2.0 compliant
DMI instrumentation (thermal monitoring)
ACPI ready (APM enabled)
Wired for Management 1.1a compliant
Wake on LAN® support[28]
Setup Guide, User's Reference, Quick Reference and Service Info Card, Options catalog, Windows manual
Plug and Play 1.0a
Standby, suspend, safe suspend, and hibernation modes
ENERGY STAR compliant
Personalized Web-based support
International Warranty Service[14]
IBM SystemXtra®[35]
24 hour / 7 day[30] telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

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No warranties are expressed or implied in this summary
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IBM ThinkPad® 570E - withdrawn

IBM® ThinkPad®				
Processor	**Intel® Mobile Pentium® III 450 or 500MHz[1] with 100MHz system bus**			
Processor features	No upgrade / processor in Ball Grid Array (BGA) / North and South Bridge cores			
L2 cache	**256KB / onboard (at processor speed)** / sync pipelined burst / write-back / ECC			
Diskette drive	External 3.5" 1.44MB / use externally with std cable or in UltraBase			
CD-ROM	*Option:* **CD-ROM** / 24X-10X[5] speed / bootable / removable from UltraBase			
DVD-ROM	*Option:* **6X-2X[5] DVD-ROM** / bootable / removable from UltraBase			
Type - model	✂ **2644-5AU**	✂ **2644-5BU**	✂ **2644-6AU**	✂ **2644-6BU**
Processor	**Pentium III 450**	**Pentium III 450**	**Pentium III 500**	**Pentium III 500**
Preload (see side)	**Windows 98 SE**	**Windows 2000**	**Windows 98 SE**	**Windows 2000**
Disk (removable)	**6.0GB[4]**	**6.0GB**	**12.0GB**	**12.0GB**
	All disks: 12ms read / 14ms write / ATA-66 or PIO4 / 9.5mm / S.M.A.R.T.[29]			
Avail / withdrawn date	February 2000 / 5AU and 5BU on July 2000, 6AU and 6BU on February 2001			
Memory (std / max)	**64MB** std / 320MB max **SDRAM** / non-parity / 100MHz / 3.3v / sockets accessed by removing screw on base One 144-pin socket / 64MB on planar / 1 socket available			
Display	**13.3"** (337.8mm) **TFT color / Active Matrix** **XGA / 1024x768** / 150 to 1 contrast ratio			
Display - features	16.7 million simultaneous colors / 30ms refresh rate / 150 degree tilt / 125 nits (AC), 70 nits (battery)			
Graphics - controller	**NeoMagic™ MagicMedia256AV™** (NM2200) / **Accelerated Graphics Port** **2.5MB** / SGRAM (embedded) / 128-bit engine, 256-bit memory interface			
Graphics - features	AGP 1X / no sideband signaling / **motion compensation** / DDC2B / simultaneous LCD and CRT[26] / multiple-monitor support[26] for Windows 98			
Disk	Left front / removable via coin screw or 2.5mm Allen wrench / SMART[29] / upgradeable			
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / South Bridge / PIIX4M / DMA Mode 2, Ultra DMA/33, or PIO Mode 4 / supports 2nd disk in opt UltraBase			
Keyboard / Fn keys	Full size 85-key keyboard / 10 Fn key functions / integrated palm rest			
Keyboard slope	Flat keyboard (does not lift up) / optional Port Replicator adds slope			
Pointing device	**TrackPoint®** / Press-to-Select / Release-to-Select / dragging / click pace / center click button for scrolling or magnifying glass / suspension top / spare caps			
Dimensions[36]	11.8 x 9.4 x 1.1" (122 cubic inches)			
Weight[2]	3.97 lbs (1.80 kg) with battery			
Weight	with optional UltraBase CD-ROM and diskette drives: 6.9 lbs (3.12 kg)			
Case material	*Top:* carbon-fiber reinforced plastic; *Bottom:* glass-fiber reinforced plastic			
Battery - type	Lithium Ion / intelligent / remove from base / locked with latch			
Battery - life[10]	3.0 hrs / supports 2nd battery in UltraBase			
Charge time - on/off	3 to 4 hrs / 2.5 to 3 hrs / no non-disruptive battery exchange			
Architecture	**Intel 440BX AGPset** / Intel 82371EB **PIIX4M** (EIDE, ISA Bridge, USB) / TI® PCI1450 for CardBus / AGP for graphics / ADM1021 digital thermometer / PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, modem, audio, USB, ext expansion) / PC97338 Super I/O / ISA (diskette, serial, parallel, infrared, ext expansion)			
Port replicator (opt)	**UltraBase** / the following are supported by attachment to UltraBase or Direct Dock Adapter: ThinkPad Port Repl with Advanced EtherJet and Port Replicator			
Docking Station	None (UltraBase has two bays)			
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video			
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)			
Other features	Ultraslim 56 watt AC Adapter, barrel, 3 prong / IBM BIOS Setup Utility (hit F1 at boot)			
Video (TV) out	None			
MPEG-2/DVD	Software supported DVD movie playback (via UltraBase and UltraslimBay DVD)			
Data/fax modem	**56K[22]** / V.90 / 14.4K fax / RJ-11 port / voice-capable / integrated Lucent® 1646 / international programmable DAA / Mini PCI Type IIIb			
Audio support	CS4280 / PCI / FM synthesis / 16-bit playback and record / CS4297 (AC97) / full duplex / int speaker (bottom) / .5 watt / Fn+PgUp and PgDn (volume) / int mic			
Jacks (3.5mm)	Microphone jack (stereo) / headphone jack (stereo) / line-in jack (stereo)			
Infrared ports	Infrared port (on right) / IrDA 1.1 compatible / up to 4Mbps			
Security	Power-on password / hard disk password / supervisor passwrd / security keyhole / Phillips-head screw on base for memory / optional Allen screw for disk			
Limited warranty[11]	**3 year** - carry-in or ThinkPad EasyServ™[31] Rapid Depot Repair (3 business day average turnaround)			
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date			

WINDOWS 98 PRELOAD[16]

- Microsoft® Windows® 98 Second Ed
- ThinkPad Utilities
- ThinkPad Configuration Program
- IBM Update Connector
- Online User's Guide
- IBM Registration
- RingCentral Fax
- ConfigSafe®
- Norton AntiVirus™ (OEM Version)
- PC-Doctor
- Universal Mgmt Services (web)
- Norton Mobile Essentials
- Symantec Mobile Essentials
- Access ThinkPad
- ✧Software Selections CD-ROM
- ✧Lotus® SmartSuite® Millennium CD
- ✧Recovery CD-ROM (Windows 98)
- ✧Recovery CD-ROM (Windows 95)[40]

WINDOWS 2000 PRELOAD[16]

- Windows 2000® Professional
- ThinkPad Utilities
- Online User's Guide
- ThinkPad Configuration Program
- IBM Registration
- PC-Doctor
- RingCentral Fax
- Netscape Communicator
- Universal Mgmt Services (web)
- ConfigSafe
- IBM Update Connector
- Norton AntiVirus (OEM version)
- ✧Software Selections CD-ROM
- ✧Lotus SmartSuite Millennium CD
- ✧Recovery CD-ROM (Windows 2000)
- ✧Recovery CD-ROM (Windows NT)[40]

ULTRABASE OPTION

Left bay of UltraBase supports most UltraslimBay options:

- optional CD-ROM (hot or warm swap)
- optional DVD drive (hot or warm swap)
- optional LS-120 SuperDisk drive (cold swap only)
- optional Zip 100MB drive (cold swap)
- optional HDD adapter; for second disk (cold swap only)
- optional ThinkPad Proven™ solutions[12]

UltraBase right bay supports:

- standard diskette drive (hot swap)
- battery (uses standard 570 battery)

Other features

- stereo speakers (0.5 watts)
- security keyhole, UltraBase lock
- MIDI/joystick port, line out, USB port

- 6.0GB disk, 12ms, ATA-66	05K9199
- 12.0GB disk, 12ms, ATA-66	05K9200
- 18.0GB disk (UltraBase only)	37L2993

Color depth	LCD	External Monitor			
Resolution	TFT	60Hz	70Hz	75Hz	85Hz
640x480	16M	16M	--	16M	16M
800x600	16M	16M	--	16M	16M
1024x768	16M	16M	16M	16M	16M
1280x1024*	256	256	--	--	--

* Virtual screen mode on 13.3" TFT screen

Windows 98 models:
- C: drive is FAT16 of 2GB
- D: drive is FAT32 of remaining space

Windows 2000 models:
- C: drive is FAT32 of entire drive

- 32MB SO DIMM 100MHz NP SDRAM	20L0253
- 64MB SO DIMM 100MHz NP SDRAM	20L0254
- 128MB SO DIMM 100MHzNP SDRAM	20L0255
- 256MB SO DIMM 100MHzNP SDRAM	33L3069
- ThinkPad 570 UltraBase	**05K5840**
- Direct Dock Adapter (from CompuLock)	00N4650
- Port Replicator	46H4209
- Port Replicator w/ Advanced EtherJet	05K4872
- Ultraslim 56 watt AC Adapter (3 prong)	02K6545
- UltraslimBay HDD adapter (for 2nd disk)	05K5336
- SuperDisk LS-120 (UltraslimBay)	20L1929
- 24X-10X[5] CD-ROM (UltraslimBay)	05K9122
- 6X-2X[5] DVD Drive (UltraslimBay)	05K9169
- Zip 100MB Drive 570/600(UltraslimBay)	37L1507
- ThinkPad 570 Li-Ion Battery	02K6546
- ThinkPad 570 Battery Charger	02K6570
- IBM 340MB microdrive	00N8073

PC 98 and DMI 2.0 compliant
DMI instrumentation
ACPI ready (APM enabled)
Wired for Management 1.1a compliant
Wake on LAN® support[28]
Setup Guide, User's Reference, Quick Reference and Service Info Card, Options catalog, Windows manual
Plug and Play 1.0a
Standby, suspend, safe suspend, and hibernation modes
ENERGY STAR compliant
Personalized Web-based support
International Warranty Service[14]
IBM SystemXtra®,[35]
24 hour / 7 day[30] telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

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IBM ThinkPad® 600 - withdrawn

IBM® ThinkPad®						
Processor type/path	**Intel® Pentium® MMX™ 233/66MHz**[1] or **Pentium II 233/66 or 266/66MHz**					
Processor features	No upgrade / processor, L2 cache, and mem cntr (North Bridge) on Mobile Module					
L2 cache	**512KB** / sync pipelined burst (66MHz for Pentium / ECC and half speed for Pent II)					
Diskette (removable)	3.5" 1.44MB / use in UltraslimBay (CD-ROM models include external diskette enclosure)					
External FDD port	External diskette port on right side (can use simultaneously with internal CD-ROM)					
CD-ROM (removble)	*Standard or option:* **5.25" CD-ROM / 24X-10X**[5] **speed** / bootable / warm swap EIDE (ATAPI) / PIO Mode 4 for W95; DMA Mode 2 for NT / use in UltraslimBay					
DVD[19] (removable)	*Option:* 2X[5] DVD-ROM drive / removable UltraslimBay option / warm swap					
SuperDisk (LS-120)	*Option:* Removable UltraslimBay option / supports 1.44MB and 120MB diskette					
Type - model	✂ **2645-21U**	✂ **2645-31U**	✂ **2645-35U**	✂ **2645-41U**	✂ **2645-51U**	✂ **2645-A1U**
Processor	**Pent 233/66**	**Pent 233/66**	***PII 233/66MHz***	***PII 233/66MHz***	***PII 266/66MHz***	***PII 266/66MHz***
Display (diagonal)	**13.0" HPA XGA**	**12.1 TFT SVGA**	**12.1 TFT SVGA**	**13.3" TFT XGA**	**13.3"TFT XGA**	**13.3"TFT XGA**
Disk (removable)	**3.2GB**[4] / PIO4	**3.2GB** / PIO4	**3.2GB** / PIO4	**3.2GB** / PIO4	**4.0GB** / PIO4	None (AAP)
Preload (see side)	**W95 OSR2.1**	**W95 OSR2.1**	**W95 OSR2.1**	**W95 OSR2.1**	**W95 OSR2.1**	Blank (no disk)
CD-ROM	**CD-ROM std**	Optional	**CD-ROM std**	**CD-ROM std**	**CD-ROM std**	None (AAP)
Modem	**56Kbps**	Opt PC Card	**56Kbps**	**56Kbps**	**56Kbps**	**56Kbps**
Avail / withdr date	Apr 98/Dec 98	Apr 98/Dec 98	Aug 98/Mar 99	Apr 98/Aug 98	Apr 98/Mar 99	Apr 98/Aug 98

All models:
- C: drive is FAT16 of 2GB
- D: drive is FAT32 of remaining space

Memory - std / max	**32MB** / 256MB[3] (TX max=256) **32MB** std / 288MB maximum
Memory - upgrade	**SDRAM /** non-parity / 66MHz / 3.3v / 2 sockets available for two JEDEC 144-pin SDRAM SO-DIMMs / sockets accessed by removing screw on bottom
Display	(See below) SVGA or XGA color / TFT or HPA / 180 degree tilt
Graphics - controller	**NeoMagic™ MagicGraph128XD™** (NM2160B) / 128-bit SVGA accelerator
Graphics - arch	**2MB** / iDRAM™ (embedded) / Zoomed Video support
Graphics - features	Support for DirectX 5.0, DDC2B, color space conversion
Graphics - external	External SVGA to 1024x768 with 65,536 colors (800x600 with 16.7 million colors)
Disk	Left front / removable via coin screw or 2.5mm Allen wrench / SMART / upgradeable
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / South Bridge / PIIX4 DMA Mode 2, Ultra DMA/33, or PIO Mode 4 / supports 2nd disk in opt HDD adapter
Keyboard / Fn keys	Full size alp/num keys / 9 Fn key functions / integrated palm rest
Keyboard slope	Flat keyboard (does not lift up)
Pointing device	**TrackPoint®** / Press-to-Select / Release-to-Select / dragging / click pace / center click button for scrolling or magnifying glass / suspension top / spare caps
Dimensions[36]	Approximately 11.8 x 9.4 x 1.4" (155 cubic inches); 300mm x 240mm x 36.5mm
Weight[2]	4.72 lb (2.14 kg) to 5.62 lb (2.55 kg)
Battery - type	Lithium Ion / intelligent / remove from base / locked with latch
Battery - life[10]	3.0 hrs / no non-disruptive battery exchange
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs
Architecture	**Intel 430TX, PIIX4** for Pentium systems / **Intel 440BX, PIIX4** for Pent II systems PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, CardBus, USB, ext expansion) TI PCI1250A for CardBus / LM75 digital thermometer / PC97338 Super I/O / ISA (audio, modem, diskette, serial, parallel, infrared, ext expansion)
Port replicator	**SelectaBase 600** / PC Card Enabler[17] / PC Card Enabler with Advanced EtherJet[17]
Docking Station	**SelectaDock III /** SelectaDock I and II
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / AC Adapter barrel, 3 prong (56 watts) / Selectable boot
Video in/out	None
MPEG decoder	None (software support for MPEG-1 in Windows 95)
Data/fax modem	*Some models:* 56Kbps (x2, upgradeable to v.90[9]) / 14.4Kbps fax / voice-capable / integrated Mwave® 3780i DSP / international programmable DAA / modem cable
Audio support	CS4237B / 16-bit / **SRS 3D audio** / FM synthesis Int stereo speakers (front) / .5 watt **/** Fn+PgUp and PgDn (volume) / int microphone
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / full duplex
Infrared ports	Infrared port (on right) / IrDA 1.1 compatible / **up to 4Mbps**
Security	Power-on password / hard disk password / supervisor password / security keyhole / personalization / phillips-head screw on base for memory / opt Allen screw for disk
Limited warranty[11]	**3 year** - carry-in or ThinkPad EasyServ™[31] Rapid Depot Repair (3 business day average turnaround)
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date

13.0" (330.2 mm) HPA XGA color
- HIgh Performance Addressing (Dual Scan)
- 640x480 (16 million), 800x600 (16 million), or 1024x768 (65,536 simultaneous colors)
- 150ms; 40 to 1 contrast ratio
- 70 nits (AC), 40 nits (battery)

12.1" (307.5 mm) TFT SVGA color
- Active Matrix TFT
- 640x480 (16 million) or 800x600 (16 million simultaneous colors)
- 75ms; 100 to 1 contrast ratio
- 110 nits (AC), 70 nits (battery)

13.3" (337.8 mm) TFT XGA color
- Active Matrix TFT
- 640x480 (16 million), 800x600 (16 million), or 1024x768 (65,536 simultaneous colors)
- 75ms; 100 to 1 contrast ratio
- 150 nits (AC), 90 nits (battery)

- 6.4GB disk, 13ms, Ultra DMA/33	02K0518
- 10GB disk, 12ms, Ultra DMA/33	36L9293
- SelectaBase 600	**12J2467**
- PC Card Enabler[17]	83H6741
- PC Card Enabler with EtherJet™[17]	05K4820
- SelectaDock I	3547001
- SelectaDock II	3547002
- SelectaDock III[17]	**3547003**
- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- 24X-10X CD-ROM (UltraslimBay; includes external diskette enclosure)	12J2471
- 16MB SO DIMM 3.3v NP SDRAM	**76H0293**
- 32MB SO DIMM 3.3v NP SDRAM	**76H0294**
- 64MB SO DIMM 3.3v NP SDRAM	**76H0295**
- ThinkPad 600 Li-Ion Battery	12J2464
- UltraslimBay HDD adapter (for 2nd disk)	05K5336
- SuperDisk LS-120 (UltraslimBay)	20L1929
- 2X DVD Drive (UltraslimBay)	05K8890
- Zip 100MB UltraslimBay Drive	37L1504

The right bay (UltraslimBay) has LED on release latch to provide status; supports warm swapping:
- std diskette and travel cover
- std or optional CD-ROM
- optional DVD drive[19]
- opt LS-120 SuperDisk drive (cold swap)
- optional Zip 100MB drive (cold swap)
- optional HDD adapter (cold swap)
- optional ThinkPad Proven™ solutions[12]

WINDOWS 95 PRELOAD[16]
- Microsoft® Windows® 95 OSR2.1
- Internet Explorer 4.01
- Online User's Guide
- ThinkPad Configuration Program
- ThinkPad Customization Center
- Puma IntelliSync 97 (infrared)
- IBM AntiVirus 3.02 (not installed)
- ConfigSafe 1.05 (must install)
- IBM Global Network Dialer 4.15.6 with Netscape Navigator web browser
- Intel LANDesk® Client Manager 3.1 (not installed)
- PointCast with ThinkPad channel
- Ergonomics
- Netfinity 5.1 for Windows 95 (not installed)
- Tivoli Light Client Framework (not installed)
- Lotus® SmartSuite 97[20]
- Ring Zero RingCentral 4.10
- Intel Video Phone 2.0.1
- IBM Update Connector
- IBM Product Registration

✧ Customization CD-ROM (apps/drivers)
✧ Recovery CD-ROM with boot diskette

System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.

ThinkPad 600 supported disks:

- 3.2GB	9.5 mm	13ms read/14ms write PIO Mode 4 or Ultra DMA/33
- 4.0GB	12.5 mm	13ms read/14ms write PIO Mode 4 or Ultra DMA/33
- 6.4GB	12.5 mm	13ms read/14ms write PIO Mode 4 or Ultra DMA/33

FEATURES

PC 97 compliant
DMI 2.0 compliant
DMI instrumentation (thermal monitoring)
ACPI 1.0 compliant
Wired for Management 1.1a
Wake on LAN™ support[28]
C: is 1.99GB, D: is up to 1.99GB, etc.
Setup Guide, User's Reference, Quick Reference and Service Information Card, Options by IBM Catalog, Windows 95 manual
Plug and Play 1.0a
Standby, suspend, safe suspend, and hibernation modes
ENERGY STAR compliant
International Warranty Service[14]
IBM SystemXtra™[35]
24 hour / 7 day telephone[30], bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

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☞ = Announced August 18, 1998
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IBM ThinkPad® 600 - September 1998 - withdrawn

IBM® ThinkPad®

Processor type/path	**Intel® Mobile Pentium® II 300MHz**[1] / 66MHz system bus
Processor features	No upgrade / processor, L2 cache, and mem cntr (North Bridge) on Mobile Module
L2 cache	**512KB** / sync pipelined burst / ECC / 150MHz (half speed)
Diskette (removable)	3.5" 1.44MB / use in UltraslimBay / ships in external diskette enclosure with a cable
External FDD port	External diskette port on right side (can use simultaneously with internal CD-ROM)
CD-ROM (removble)	**5.25" CD-ROM / 24X-10X**[5] **speed** / bootable / warm swap
	EIDE (ATAPI) / PIO Mode 4 for W95; DMA Mode 2 for NT / use in UltraslimBay
DVD[19] (removable)	*Option:* 2X[5] DVD-ROM drive / removable UltraslimBay option / warm swap
SuperDisk (LS-120)	*Option:* Removable UltraslimBay option / supports 1.44MB and 120MB diskette

Type - model	**2645-45U**	**2645-85U**	All models:
Preload (see side)	**Windows 98**	**Windows NT 4.0**	- C: drive is FAT16 of 2GB
Disk (removable)	**5.1GB**[4] / 12ms (read);13ms (write) / upgradeable		- D: drive is FAT32 (if W98) or
Avail / withdr date	September 1998 / June 1999		FAT16 (if NT) of remaining space

Memory	**64MB** std / 288MB[25] maximum / **SDRAM** / non-parity / 66MHz / 3.3v Two 144-pin sockets / 32MB on planar and 1 socket used by 32MB SO-DIMM / 1 socket available / sockets accessed by removing screw on bottom
Display	**13.3" (337.8mm) TFT color** / Active Matrix / XGA / 75ms / 100 to 1 contrast ratio/ 640x480 or 800x600 (16.7 million colors), 1024x768 (65,536 colors) / 150 nits (AC), 90 nits (battery) / 180 degree tilt
Graphics - controller	**NeoMagic™ MagicGraph128XD™** (NM2160B) / 128-bit SVGA accelerator
Graphics - arch	**2MB** / iDRAM™ (embedded) / Zoomed Video support
Graphics - features	Support for DirectX 5.0, DDC2B, color space conversion
Graphics - external	External SVGA to 1024x768 with 65,536 colors (800x600 with 16.7 million colors)
Disk	Left front / removable via coin screw or 2.5mm Allen wrench / SMART / upgradeable
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / South Bridge / PIIX4 DMA Mode 2, Ultra DMA/33, or PIO Mode 4 / supports 2nd disk inopt HDD adapter
Keyboard / Fn keys	Full size alp/num keys / 9 Fn key functions / integrated palm rest
Keyboard slope	Flat keyboard (does not lift up) / optional Port Replicator adds slope
Pointing device	**TrackPoint®** / Press-to-Select / Release-to-Select / dragging / click pace / center click button for scrolling or magnifying glass / suspension top / spare caps
Dimensions[36]	Appoximately 11.8 x 9.4 x 1.4" (155 cubic inches); 300mm x 240mm x 36.5mm
Weight[2]	5.01 lbs (2.27 kg) with travel cover and battery only
Battery - type	Lithium Ion / intelligent / remove from base / locked with latch
Battery - life[10]	3.0 hrs / no non-disruptive battery exchange
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs
Architecture	**Intel 440BX and PIIX4** (EIDE, ISA Bridge, USB) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, CardBus, USB, ext expansion) TI PCI1250A for CardBus / LM75 digital thermometer / PC97338 Super I/O / ISA (audio, modem, diskette, serial, parallel, infrared, ext expansion)
Port replicator	**SelectaBase 600** / PC Card Enabler[17] / PC Card Enabler with Advanced EtherJet[17]
Docking Station	**SelectaDock III** / SelectaDock I and II
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / AC Adapter barrel, 3 prong (56 watts) / Selectable boot
Video in/out	None
MPEG decoder	None (software support for MPEG-1 in Windows 98)
Data/fax modem	**56K** (x2, upgradeable to v.90[9]) / 14.4Kbps fax / telephony / voice-capable integrated Mwave® 3780i DSP / international programmable DAA / modem cable
Audio support	CS4237B / 16-bit / **SRS 3D audio** / FM synthesis Int stereo speakers (front) / .5 watt **/** Fn+PgUp and PgDn (volume) **/** int microphone
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / full duplex
Infrared ports	Infrared port (on right) / IrDA 1.1 compatible / **up to 4Mbps**
Security	Power-on password / hard disk password / supervisor password / security keyhole / personalization / phillips-head screw on base for memory / opt Allen screw for disk
Limited warranty[11]	**3 year** - carry-in or ThinkPad EasyServ™[31] Rapid Depot Repair (3 business day average turnaround)
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / service agreements up to 5 years from purchase date

WINDOWS 98 PRELOAD[16]

- Microsoft® Windows® 98
- Online User's Guide
- ThinkPad Utilities
- ThinkPad Configuration Program
- RingCentral
- Ergonomics
- IBM Product Registration
- Puma IntelliSync 97 (infrared)
- IBM Global Network Dialer
- Netscape Navigator web browser
- IBM Update Connector
- Artisoft ConfigSafe
- Norton AntiVirus

✧ Lotus® SmartSuite Millennium CD-ROM
✧ Customization Center CD-ROM
✧ Product Recovery CD-ROM (with boot diskette)

WINDOWS NT PRELOAD[16]

- Windows NT® Workstation 4.0
- Online User's Guide
- ThinkPad Utilities
- ThinkPad Configuration Program
- Puma IntelliSync 97 (infrared)
- ConfigSafe
- IBM Global Network Dialer
- Netscape Navigator web browser
- Norton AntiVirus (OEM Version)
- Ergonomics
- IBM Product Registration
- SystemSoft CardWizard

✧ Lotus SmartSuite Millennium CD-ROM
✧ Customization CD-ROM (apps/drivers)
✧ Product Recovery CD-ROM (with boot diskette)

System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.

ThinkPad 600 supported disks:

- 3.2GB	9.5 mm	13ms read/14ms write PIO Mode 4 or Ultra DMA/33
- 4.0GB	12.5 mm	13ms read/14ms write PIO Mode 4 or Ultra DMA/33
- 5.1GB	12.5 mm	12ms read/13ms write PIO Mode 4 or Ultra DMA/33
- 6.4GB	12.5 mm	13ms read/14ms write PIO Mode 4 or Ultra DMA/33

FEATURES

Wired for Management 1.1a
PC 97 compliant
DMI 2.0 compliant
DMI instrumentation (thermal monitoring)
ACPI ready (APM enabled)
Wake on LAN® support[28]
C: is 1.99GB, D: is up to 1.99GB, etc.
Setup Guide, User's Reference, Quick Reference and Service Information Card, Options by IBM Catalog, Windows 98 or NT manual
Plug and Play 1.0a
Standby, suspend, safe suspend, and hibernation modes
ENERGY STAR compliant
International Warranty Service[14]
IBM SystemXtra®[,35]
24 hour / 7 day telephone[30], bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

- 56K PC Card Modem Kit	04K0052	- 6.4GB disk, 13ms, Ultra DMA/33	02K0518
- 56K PC Card Modem/Cellular capab	02K4196	- 10GB disk, 12ms, Ultra DMA/33	36L9293
- V.90 PC Card Modem with XJACK[24]	10L7393	**- SelectaBase 600**	**12J2467**
- EtherJet PC Card Combo	72H4534	- PC Card Enabler[17]	83H6741
- IBM 10/100 EtherJet CardBus PC Cd	08L3147	- PC Card Enabler with EtherJet™[17]	05K4820
- UltraslimBay HDD adapter (for 2nd disk)	05K5336	- SelectaDock I	3547001
- SuperDisk LS-120 (UltraslimBay)	20L1929	- SelectaDock II	3547002
- 2X DVD Drive (UltraslimBay)	05K8890	**- SelectaDock III**[17]	**3547003**
		- 56 watt AC Adapter (barrel; 3 prong)	83H6739
		- 24X-10X CD-ROM (UltraslimBay; includes external diskette enclosure)	12J2471
		- 16MB SO DIMM 3.3v NP SDRAM	**76H0293**
		- 32MB SO DIMM 3.3v NP SDRAM	**76H0294**
		- 64MB SO DIMM 3.3v NP SDRAM	**76H0295**
		- 64MB SO DIMM 3.3v NP SDRAM	**20L0241**
		- 128MB SO DIMM 3.3v NP SDRAM	**01K1150**
		- ThinkPad 600 Li-Ion Battery	12J2464
		- External Battery Charger	02K6499
		- Zip 100MB UltraslimBay Drive	37L1504

The right bay (UltraslimBay) has LED on release latch to provide status; supports warm swapping:

- std diskette and weight-saver bezel
- std or optional CD-ROM
- optional DVD drive[19]
- optional Zip 100MB drive (cold swap)
- opt LS-120 SuperDisk drive (cold swap)
- opt HDD adapter; second disk (cold swap)
- optional ThinkPad Proven™ solutions[12]

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IBM ThinkPad® 600E - withdrawn

IBM® ThinkPad®			
Processor	**Intel® Mobile Pentium® II 300MHz**[1] / 66MHz system bus		
Processor features	No upgrade / processor, L2 cache, and mem cntr (North Bridge) on Mobile Module		
L2 cache	**512KB** / sync pipelined burst / ECC / 150MHz (half speed)		
Diskette (removable)	3.5" 1.44MB / use in UltraslimBay™ / ships in external diskette enclosure with a cable		
External FDD port	External diskette port on right side (can use simultaneously with internal DVD)		
CD-ROM (removble)	*Option:* **CD-ROM / 24X-10X**[5] **speed** / bootable / warm swap		
	EIDE (ATAPI) / PIO Mode 4 for W95; DMA Mode 2 for NT / use in UltraslimBay		
DVD (removable)	*Std or option:* 2X[5] DVD-ROM / removable from UltraslimBay / warm swap		
SuperDisk (LS-120)	*Option:* Removable UltraslimBay option / supports 1.44MB and 120MB diskette		
Type - model	**2645-55U**	**2645-A5U** (AAP)	All models:
Preload (see side)	**Windows 98**	**Blank** (no disk)	- C: drive is FAT16 of 2GB
Disk (removable)	**6.4GB**[4] / 13/14ms	**None**	- D: drive is FAT32 of remaining space
DVD-ROM drive	**DVD-ROM**	**None**	
Avail / withdr date	Nov 1998 / Mar 1999	Nov 1998 / Mar 1999	
Memory	**64MB** std / 288MB[25] max	**32MB** std / 288MB max	
	SDRAM / non-parity / 66MHz / 3.3v / sockets accessed by removing screw on base		
	Two 144-pin sockets / 32MB on planar / 1 or 2 sockets available /		
	for 64MB model, one socket used by 32MB SO-DIMM		
Display	**13.3"** (337.8mm) **TFT color** / Active Matrix / XGA / 75ms / 100 to 1 contrast ratio/		
	640x480, 800x600, or 1024x768 (up to 16.7 million colors)		
	150 nits (AC), 90 nits (battery) / 180 degree tilt		
Graphics - controller	**NeoMagic™ MagicMedia256AV™** (NM2200) / **Accelerated Graphics Port**		
	2.5MB / SGRAM (embedded) / 128-bit engine, 256-bit memory interface / AGP-1x		
Graphics - features	**Motion compensation** / color space conversion / interpolation in X and Y axis		
	Multiple-monitor support[26] for Windows 98 / DDC2B / Direct3D		
Graphics - external	External SVGA to 1024x768x16.7 million colors at 85Hz and 1280x1024x256 colors		
Disk	Left front / removable via coin screw or 2.5mm Allen wrench / SMART / upgradeable		
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / South Bridge / PIIX4E		
	DMA Mode 2, Ultra DMA/33, or PIO Mode 4 / supports 2nd disk in opt HDD adapter		
Keyboard / Fn keys	Full size alp/num keys/ 10 Fn key functions / integrated palm rest		
Keyboard slope	Flat keyboard (does not lift up) / optional Port Replicator adds slope		
Pointing device	**TrackPoint®** / Press-to-Select / Release-to-Select / dragging / click pace /		
	center click button for scrolling or magnifying glass / suspension top / spare caps		
Dimensions36	Approximately 11.8 x 9.4 x 1.4" (155 cubic inches); 300mm x 240mm x 36.5mm		
Weight[2]	4.99 lbs (2.27 kg) with travel cover and battery only		
Battery - type	Lithium Ion / intelligent / remove from base / locked with latch		
Battery - life[10]	3.0 hrs / no non-disruptive battery exchange / supports 2nd battery in UltraslimBay		
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs		
Architecture	**Intel 440BX AGPset** / Intel 82371EB **PIIX4E** (EIDE, ISA Bridge, USB) /		
	TI® PCI1251 for CardBus / AGP for graphics / LM75 digital thermometer		
	PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, audio, USB, ext expansion)		
	PC97338 Super I/O / ISA (audio, modem, diskette, serial, parallel, infrared, ext exp)		
Port replicator	**SelectaBase 600** / PC Card Enabler[17] / PC Card Enabler with Advanced EtherJet[17]		
Docking Station	**SelectaDock III /** SelectaDock I and II		
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video		
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	APM-aware BIOS / AC Adapter barrel, 3 prong (56 watts) / Selectable boot		
Video out	Video out (composite) / cable ships standard with RCA jack / Chrontel CH7004		
MPEG decoder	None (W98 support for MPEG-2 because 300MHz with motion compensation)		
Data/fax modem	**56K** / v.90[22] / 14.4Kbps fax / telephony / voice-capable /		
	integrated Mwave® 3780i DSP / international programmable DAA / modem cable		
Audio support	CS4239: ISA / SRS 3D audio / FM synthesis / 16-bit playback and record		
	CS4610: PCI / decodes AC3 into stereo / MPEG-2 audio decoding / accel of DirectX		
	Int stereo speakers (front) / .5 watt / Fn+PgUp and PgDn (volume) / int microphone		
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / full duplex		
Infrared ports	Infrared port (on right) / IrDA 1.1 compatible / up to 4Mbps		
Security	Power-on password / hard disk password / supervisor password / security keyhole /		
	personalization / phillips-head screw on base for memory / opt Allen screw for disk		
Limited warranty[11]	**3 year** - carry-in or ThinkPad EasyServ™[31] Rapid Depot Repair (3 business day		
	average turnaround		
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date		

- 56K PC Card Modem Kit	04K0052	- 6.4GB disk, 13ms, Ultra DMA/33	02K0518
- 56K PC Card Modem/Cellular capab	02K4196	- 10GB disk, 12ms, Ultra DMA/33	36L9293
- V.90 PC Card Modem with XJACK[24]	10L7393	**- SelectaBase 600**	**12J2467**
- 10/100 EtherJet CardBus with 56K modem	08L3167	- PC Card Enabler[17]	83H6741
		- PC Card Enabler with EtherJet™[17]	05K4820
- IBM 10/100 EtherJet CardBus PC Cd	08L3147	- SelectaDock I	3547001
- UltraslimBay HDD adapter (for 2nd disk)	05K5336	- SelectaDock II	3547002
- SuperDisk LS-120 (UltraslimBay)	20L1929	**- SelectaDock III**[17]	**3547003**
- 2X DVD Drive (UltraslimBay)	05K8890	- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- Zip 100MB UltraslimBay Drive	37L1504	**- 24X-10X CD-ROM** (UltraslimBay; includes external diskette enclosure)	12J2471
- UltraslimBay Battery (600E only)	02K6504		
- ThinkPad 600 Li-Ion Battery	12J2464	**- 32MB SO DIMM 3.3v NP SDRAM**	**76H0294**
- External Battery Charger	02K6499	**- 64MB SO DIMM 3.3v NP SDRAM**	**20L0241**
		- 128MB SO DIMM 3.3v NP SDRAM	**01K1150**
- ThinkPad Proven™ solutions[12] (visit www.ibm.com/pc/us/thinkpad/proven)			

WINDOWS 98 PRELOAD[16]

- Microsoft® Windows® 98
- ThinkPad Utilities
- Online User's Guide
- ThinkPad Configuration Program
- Ergonomics
- IBM Registration
- RingCentral Fax
- Puma IntelliSync 97 (infrared)
- IBM Global Network Dialer
- Netscape Navigator web browser
- ThinkPad on the Net (TCC CD)
- ConfigSafe
- Norton AntiVirus (OEM Version)
- Mediamatics DVD Express
- IBM Update Connector

✧ Lotus SmartSuite Millennium CD-ROM
✧ Customization Center CD-ROM
✧ Recovery CD-ROM (with boot diskette)

The right bay (UltraslimBay) has LED on release latch to provide status; supports warm swapping:

- std diskette and travel cover
- std or optional CD-ROM
- optional DVD drive[19]
- optional UltraslimBay battery (cold swap only; 600E only)
- optional LS-120 SuperDisk drive (cold swap only)
- optional Zip 100MB drive (cold swap)
- optional HDD adapter; for second disk (cold swap only)
- optional ThinkPad Proven™ solutions[12]

System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.

ThinkPad 600 supported disks:

- 3.2GB	9.5 mm	13ms read/14ms write PIO Mode 4 or Ultra DMA/33
- 4.0GB	12.5 mm	13ms read/14ms write PIO Mode 4 or Ultra DMA/33
- 5.1GB	12.5 mm	12ms read/13ms write PIO Mode 4 or Ultra DMA/33
- 6.4GB	12.5 mm	13ms read/14ms write PIO Mode 4 or Ultra DMA/33

FEATURES

PC 97 compliant
DMI 2.0 compliant
DMI instrumentation (thermal monitoring)
ACPI ready (APM enabled)
Wired for Management 1.1a
Wake on LAN™ support[28]
Setup Guide, User's Reference, Quick Reference and Service Information Card, Options by IBM Catalog, Windows 98 manual
Plug and Play 1.0a
Standby, suspend, safe suspend, and hibernation modes
ENERGY STAR compliant
International Warranty Service[14]
IBM SystemXtra™[35]
24 hour / 7 day telephone[30], bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

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IBM ThinkPad® 600E (1999) - withdrawn

IBM® ThinkPad®					
Processor	**Intel® Mobile Pentium® II 300PE or 366MHz**[1] / 66MHz system bus				
Processor features	No upgrade / processor, L2 cache, and mem cntr (North Bridge) on Mobile Module				
L2 cache	**256KB / onboard (full speed)** / sync pipelined burst / write-back / ECC				
Diskette (removable)	3.5" 1.44MB / use in UltraslimBay™ / ships in external diskette enclosure with a cable				
External FDD port	External diskette port on right side (can use simultaneously with internal CD/DVD)				
CD-ROM (removble)	*Std or option:* **CD-ROM** / 24X-10X[5] speed / bootable / removable from UltraslimBay				
DVD (removable)	*Std or option:* **DVD-ROM** / bootable / removable from UltraslimBay				
Type - model	**2645-3AU**	**2645-4AU**	**2645-8AU**	**2645-5AU**	**2645-AAU**
Processor	**PII 300PEMHz**	**PII 366MHz**	**PII 366MHz**	**PII 366MHz**	**PII 366MHz**
Preload (see side)	**Windows 98**	**Windows 98**	**Windows NT**	**Windows 98**	**Blank** (no disk)
CD or DVD-ROM	**CD-ROM**	**CD-ROM**	**CD-ROM**	**DVD-ROM**	**Optional**
Disk (removable)	**4.0GB**[4] / 13/14ms	**6.4GB** / 13/14ms			**None**
	PIO4 or Ultra DMA 12.5 mm / PIO Mode 4 or Ultra DMA/33				**N/A**
Avail / withdraw date	Mar 1999 / Dec 99	Mar 99 / Mar 00			Mar 99 / Feb 00
Memory (std / max)	**32MB** / 288MB	**64MB** std / 288MB[25] max			**32MB** / 288MB
	SDRAM / non-parity / 66MHz / 3.3v / sockets accessed by removing screw on base				
	Two 144-pin sockets / 32MB on planar / 1 or 2 sockets available /				
	for 64MB model, one socket used by 32MB SO-DIMM				
Display	**13.3"** (337.8mm) **TFT color** / Active Matrix / XGA / 75ms / 100 to 1 contrast ratio/				
	640x480, 800x600, or 1024x768 (up to 16.7 million colors)				
	150 nits (AC), 90 nits (battery) / 180 degree tilt				
Graphics - controller	**NeoMagic™ MagicMedia256AV™** (NM2200) / **Accelerated Graphics Port**				
	2.5MB / SGRAM (embedded) / 128-bit engine, 256-bit memory interface / AGP 1X				
Graphics - features	**Motion compensation** / color space conversion / interpolation in X and Y axis				
	Multiple-monitor support[26] for Windows 98 / simultaneous LCD and CRT[26] / DDC2B				
Graphics - external	External SVGA to 1024x768x16.7 million colors at 85Hz and 1280x1024x256 colors				
Disk	Left front / removable via coin screw or 2.5mm Allen wrench / SMART[29] / upgradeable				
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / South Bridge / PIIX4E				
	DMA Mode 2, Ultra DMA/33, or PIO Mode 4 / supports 2nd disk in opt HDD adapter				
Keyboard / Fn keys	Full size alp/num keys / 10 Fn key functions / integrated palm rest				
Keyboard slope	Flat keyboard (does not lift up) / optional Port Replicator adds slope				
Pointing device	**TrackPoint®** / Press-to-Select / Release-to-Select / dragging / click pace /				
	center click button for scrolling or magnifying glass / suspension top / spare caps				
Dimensions[36]	Approximately 11.8 x 9.4 x 1.4" (155 cubic inches); 300mm x 240mm x 36.5mm				
Weight[2]	4.99 lbs (2.26 kg) with travel cover and battery only				
Battery - type	Lithium Ion / intelligent / remove from base / locked with latch				
Battery - life[10]	3.0 hrs / no non-disruptive battery exchange / supports 2nd battery in UltraslimBay				
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs				
Architecture	**Intel 440BX AGPset** / Intel 82371EB **PIIX4E** (EIDE, ISA Bridge, USB) /				
	TI® PCI1251 for CardBus / AGP for graphics / LM75 digital thermometer				
	PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, audio, USB, ext expansion)				
	PC97338 Super I/O / ISA (audio, modem, diskette, serial, parallel, infrared, ext exp)				
Port replicator	**SelectaBase 600** / PC Card Enabler[17] / PC Card Enabler with Advanced EtherJet[17]				
Docking Station	**SelectaDock III**[17] **/** SelectaDock I and II				
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video				
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)				
Other features	APM-aware BIOS / Ultraslim 56 watt AC Adapter barrel, 3 prong / Selectable boot				
Video (TV) out	*5AU:* Video out (composite) / cable ships standard with RCA jack / Chrontel CH7004				
MPEG decoder	None (W98 support for MPEG-2 because 300MHz with motion compensation)				
Data/fax modem	**56K**[22] / V.90 / 14.4Kbps fax / telephony / voice-capable /				
	integrated Mwave® 3780i DSP / international programmable DAA / modem cable				
Audio support	CS4239: ISA / SRS 3D audio / FM synthesis / 16-bit playback and record				
	CS4610: PCI / decodes AC3 into stereo / MPEG-2 audio decoding / accel of DirectX				
	Int stereo speakers (front) / .5 watt / Fn+PgUp and PgDn (volume) / int microphone				
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / full duplex				
Infrared ports	Infrared port (on right) / IrDA 1.1 compatible / up to 4Mbps				
Security	Power-on password / hard disk password / supervisor password / security keyhole /				
	personalization / phillips-head screw on base for memory / opt Allen screw for disk				
Limited warranty[11]	**3 year** - carry-in or ThinkPad EasyServ™[31] Rapid Depot Repair (3 business day				
	average turnaround)				
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date				

WINDOWS 98 PRELOAD[16]

- Microsoft® Windows® 98
- ThinkPad Utilities
- Online User's Guide
- ThinkPad Configuration Program
- Ergonomics
- IBM Registration
- RingCentral
- Puma IntelliSync 97 (infrared)
- IBM Global Network Dialer
- Netscape Communicator
- Lotus SmartSuite Millennium[20]
- Universal Management Agent
- ThinkPad on the Net
- ConfigSafe®
- Norton AntiVirus (OEM Version)
- Mediamatics DVD Express (5AU only)
- IBM Update Connector
- Access ThinkPad

✧ Software Selections CD-ROM
✧ Recovery CD-ROM (Windows 98)
✧ Recovery CD-ROM (Windows 95)[7]

WINDOWS NT PRELOAD[16]

- Microsoft Windows NT® 4.0
- Service Pack 4a
- ThinkPad Utilities
- Online User's Guide
- ThinkPad Configuration Program
- Ergonomics
- IBM Registration
- Puma IntelliSync 97 (infrared)
- IBM Global Network Dialer
- Netscape Communicator
- Lotus SmartSuite Millennium[20]
- Universal Management Agent
- ConfigSafe
- Norton AntiVirus (OEM Version)
- IBM Update Connector
- Access ThinkPad
- SystemSoft CardWizard

✧ Software Selections CD-ROM
✧ Recovery CD-ROM (Windows NT)

The right bay (UltraslimBay) has LED on release latch to provide status; supports warm swapping:

- std diskette and travel cover
- std or optional CD-ROM
- std or optional DVD drive[19]
- optional UltraslimBay battery (cold swap only; 600E only)
- optional LS-120 SuperDisk drive (cold swap only)
- optional Zip 100MB drive (cold swap)
- optional HDD adapter; for second disk (cold swap only)
- optional ThinkPad Proven™ solutions[12]

PC 97 compliant
DMI 2.0 compliant
DMI instrumentation (thermal monitoring)
ACPI ready (APM enabled)
Wired for Management 1.1a
Wake on LAN® support[28]
Setup Guide, User's Reference, Quick Reference and Service Information Card, Options by IBM Catalog, Windows 98 manual
Plug and Play 1.0a
Standby, suspend, safe suspend, and hibernation modes
ENERGY STAR compliant
Asset ID™ wireless RF technology (available only as an AAP option on the 600E model AAU; Atmel® AT24RF08 EEPROM))
International Warranty Service[14]
IBM SystemXtra®, [35]
24 hour / 7 day[30] telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

- ThinkPad 600 Li-Ion Battery	12J2464
- 10/100 EtherJet CardBus with 56K modem	08L3167
- IBM 10/100 EtherJet CardBus PC Card	08L3147

Color depth	LCD	External Monitor			
Resolution	TFT	60Hz	70Hz	75Hz	85Hz
640x480	16M	16M	--	16M	16M
800x600	16M	16M	--	16M	16M
1024x768	16M	16M	16M	16M	64K
1280x1024	--	256	--	64K	64K

All models:
- C: drive is FAT16 of 2GB
- D: drive is FAT32 (if W98) or FAT16 (if NT) of remaining space

- 6.4GB disk, 13ms, Ultra DMA/33	02K0518
- 10GB disk, 12ms, Ultra DMA/33	36L9293
- SelectaBase 600	12J2467
- PC Card Enabler with EtherJet[17]	05K4820
- SelectaDock III[17]	3547003
- Ultraslim 56 watt AC Adapter (3 prong)	02K6545
- 24X-10X[5] CD-ROM (UltraslimBay; includes external diskette enclosure)	12J2471
32MB SO DIMM 3.3v NP SDRAM	76H0294
- 64MB SO DIMM 3.3v NP SDRAM	20L0241
- 128MB SO DIMM 3.3v NP SDRAM	01K1150
- UltraslimBay HDD adapter (for 2nd disk)	05K5336
- SuperDisk LS-120 (UltraslimBay)	20L1929
- 2X[5] DVD Drive (UltraslimBay)	05K8890
- 6X-2X[5] DVD Drive (UltraslimBay)	05K9169
- Zip 100MB UltraslimBay Drive(570/600)	37L1507
- UltraslimBay Battery (600E only)	02K6504

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No warranties are expressed or implied in this summary
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IBM ThinkPad® 600E (400MHz) - withdrawn

IBM® ThinkPad®

Processor	**Intel® Mobile Pentium® II 400MHz**[1] / 66MHz system bus			
Processor features	No upgrade / processor, L2 cache, and mem cntr (North Bridge) on Mobile Module			
L2 cache	**256KB / onboard (full speed)** / sync pipelined burst / write-back / ECC			
Diskette (removable)	3.5" 1.44MB / use in UltraslimBay™ / ships in external diskette enclosure with a cable			
External FDD port	External diskette port on right side (can use simultaneously with internal CD/DVD)			
CD-ROM (removble)	*Std or option:* CD-ROM / 24X-10X[5] speed / bootable / removable from UltraslimBay			
DVD (removable)	*Std or option:* DVD-ROM / bootable / removable from UltraslimBay			
Type - model	**2645-4BU**	**2645-5BU**	**2645-8BU**	**2645-BAU** (AAP)
Processor	**Pentium II 400MHz**	**Pentium II 400MHz**	**Pentium II 400MHz**	**Pentium II 400MHz**
Preload (see side)	**Windows 98**	**Windows 98**	**Windows NT**	**Blank** (no disk)
CD or DVD-ROM	**CD-ROM**	**DVD**	**CD-ROM**	**Optional**
Disk (removable)	**10.0GB**[4] / 12ms seek time / PIO4 or Ultra DMA/33			**None**
Avail / withdrawn date	June 1999 / January 2001			

Memory (std / max)	**64MB** / 288MB[25]	**32MB** / 288MB[25]
	SDRAM / non-parity / 66MHz / 3.3v / sockets accessed by removing screw on base	
	Two 144-pin sockets / 32MB on planar / 1 or 2 sockets available / for 64MB model, one socket used by 32MB SO-DIMM	
Display	**13.3"** (337.8mm) **TFT color** / Active Matrix / XGA / 75ms / 100 to 1 contrast ratio/ 640x480, 800x600, or 1024x768 (up to 16.7 million colors)	
	150 nits (AC), 90 nits (battery) / 180 degree tilt	
Graphics - controller	**NeoMagic™ MagicMedia256AV™** (NM2200) / Accelerated Graphics Port	
	2.5MB / SGRAM (embedded) / 128-bit engine, 256-bit memory interface / AGP-1x	
Graphics - features	**Motion compensation** / color space conversion / interpolation in X and Y axis	
	Multiple-monitor support[26] for Windows 98 / simultaneous LCD and CRT[26] / DDC2B	
Graphics - external	External SVGA to 1024x768x16.7 million colors at 85Hz and 1280x1024x256 colors	
Disk	Left front / removable via coin screw or 2.5mm Allen wrench / SMART[29] / upgradeable	
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / South Bridge / PIIX4E	
	DMA Mode 2, Ultra DMA/33, or PIO Mode 4 / supports 2nd disk in opt HDD adapter	
Keyboard / Fn keys	Full-size 85-key keyboard / 10 Fn key functions / integrated palm rest	
Keyboard slope	Flat keyboard (does not lift up) / optional Port Replicator adds slope	
Pointing device	**TrackPoint®** / Press-to-Select / Release-to-Select / dragging / click pace / center click button for scrolling or magnifying glass / suspension top / spare caps	
Dimensions[36]	Approximately 11.8 x 9.4 x 1.4" (155 cubic inches); 300mm x 240mm x 36.5mm	
Approximate weight[2]	5.04 lbs (2.29 kg) w/ travel cover and battery only / IBM ThinkPad UltraCarbon™ case	
Battery - type	Lithium Ion / intelligent / remove from base / locked with latch	
Battery - life[10]	3.0 hrs / no non-disruptive battery exchange / supports 2nd battery in UltraslimBay	
Charge time[10] - on / off	2 to 3 hrs / 1.5 to 2.5 hrs	
Architecture	**Intel 440BX AGPset** / Intel 82371EB PIIX4E (EIDE, ISA Bridge, USB) /	
	TI® PCI1251 for CardBus / AGP for graphics / LM75 digital thermometer	
	PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, audio, USB, ext expansion)	
	PC97338 Super I/O / ISA (audio, modem, diskette, serial, parallel, infrared, ext exp)	
Port replicator	**SelectaBase 600** / PC Card Enabler[17] / PC Card Enabler with Advanced EtherJet[17]	
Docking Station	**SelectaDock III**[17] **/** SelectaDock I and II	
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video	
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	
Other features	APM-aware BIOS / Ultraslim 56 watt AC Adapter barrel, 3 prong / selectable boot	
Video (TV) out	*5BU/BAU:* Video out (composite) / cable ships std with RCA jack / Chrontel CH7004	
MPEG decoder	None (W98 support for MPEG-2 because 300MHz with motion compensation)	
Data/fax modem	**56K**[22] V.90 / 14.4Kbps fax / telephony / voice-capable /	
	integrated Mwave® 3780i DSP / international programmable DAA / modem cable	
Audio support	CS4239: ISA / SRS 3D audio / FM synthesis / 16-bit playback and record	
	CS4610: PCI / decodes AC3 into stereo / MPEG-2 audio decoding / accel of DirectX	
	Int stereo speakers (front) / .5 watt / Fn+PgUp and PgDn (volume) / int microphone	
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / full duplex	
Infrared ports	Infrared port (on right) / IrDA 1.1 compatible / up to 4Mbps	
Security	Power-on password / hard disk password / supervisor password / security keyhole / personalization / phillips-head screw on base for memory / opt Allen screw for disk	
Limited warranty[11]	**3 year** - carry-in or ThinkPad EasyServ™[31] Rapid Depot Repair (3 business day average turnaround)	
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date	

- ThinkPad 600 Li-Ion Battery 12J2464
- 10/100 EtherJet CardBus with 56K[22] modem 08L3167
- IBM 10/100 EtherJet CardBus PC Card 08L3147

Color depth	LCD	External Monitor			
Resolution	TFT	60Hz	70Hz	75Hz	85Hz
640x480	16M	16M	--	16M	16M
800x600	16M	16M	--	16M	16M
1024x768	16M	16M	16M	16M	16M
1280x1024	--	256	--	--	--

All models:
- C: drive is FAT16 of 2GB
- D: drive is FAT32 (if W98) or FAT16 (if NT) of remaining space

- 6.4GB disk, 13ms, Ultra DMA/33 02K0518
- 10GB disk, 12ms, Ultra DMA/33 36L9293
- SelectaBase 600 12J2467
- PC Card Enabler with Adv EtherJet[17] 05K4820
- SelectaDock III[17] 3547003
- Ultraslim 56 watt AC Adapter (3 prong) 02K6545
- 24X-10X[5] CD-ROM (UltraslimBay; includes external diskette enclosure) 12J2471
- 32MB SO DIMM 3.3v NP SDRAM 76H0294
- 64MB SO DIMM 3.3v NP SDRAM 20L0241
- 128MB SO DIMM 3.3v NP SDRAM 01K1150
- UltraslimBay HDD adapter (for 2nd disk) 05K5336
- SuperDisk LS-120 (UltraslimBay) 20L1929
- 2X[5] DVD Drive (UltraslimBay) 05K8890
- 6X-2X[5] DVD Drive (UltraslimBay) 05K9169
- Zip 100MB UltraslimBay Drive (570/600) 37L1507
- UltraslimBay Battery (600E only) 02K6504

WINDOWS 98 PRELOAD[16]

- Microsoft® Windows® 98
- ThinkPad Utilities
- Online User's Guide
- ThinkPad Configuration Program
- Ergonomics
- IBM Registration
- RingCentral Fax
- Puma IntelliSync 97 (infrared)
- IBM Global Network Dialer
- Netscape Communicator
- Lotus SmartSuite Millennium
- Universal Management Agent
- ThinkPad on the Net
- ConfigSafe®
- Norton AntiVirus™ (OEM Version)
- Mediamatics DVD Express
- IBM Update Connector
- Access ThinkPad
- ✧ Software Selections CD-ROM
- ✧ Recovery CD-ROM (Windows 98)
- ✧ Recovery CD-ROM (Windows 95)[7]

WINDOWS NT PRELOAD[16]

- Microsoft Windows NT® 4.0
- Service Pack 4a
- ThinkPad Utilities
- Online User's Guide
- ThinkPad Configuration Program
- Ergonomics
- IBM Registration
- Puma IntelliSync 97 (infrared)
- IBM Global Network Dialer
- Netscape Communicator
- Lotus SmartSuite Millennium[20]
- Universal Management Agent
- ConfigSafe
- Norton AntiVirus (OEM Version)
- IBM Update Connector
- Access ThinkPad
- SystemSoft CardWizard
- ✧ Software Selections CD-ROM
- ✧ Recovery CD-ROM (Windows NT)

The right bay (UltraslimBay) has LED on release latch to provide status; supports warm swapping:
- std diskette and travel cover
- std or optional CD-ROM
- std or optional DVD drive
- optional UltraslimBay battery (cold swap only; 600E only)
- optional LS-120 SuperDisk drive (cold swap only)
- optional Zip 100MB drive (cold swap)
- optional HDD adapter; for second disk (cold swap only)
- optional ThinkPad Proven™ solutions[12]

PC 97 compliant
DMI 2.0 compliant
DMI instrumentation (thermal monitoring)
ACPI ready (APM enabled)
Wired for Management 1.1a
Wake on LAN® support[28]
Universal Management Agent™ support
Setup Guide, User's Reference, Quick Reference and Service Information Card, Options by IBM Catalog, Windows 98 or NT manual
Plug and Play 1.0a
Standby, suspend, safe suspend, and hibernation modes
ENERGY STAR compliant
Asset ID™ wireless RF technology (available only as an AAP option on the 600E model BAU; Atmel® AT24RF08 EEPROM))
International Warranty Service[14]
IBM SystemXtra®[,35]
24 hour / 7 day[30] telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

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No warranties are expressed or implied in this summary
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IBM ThinkPad® 600X - withdrawn

IBM® ThinkPad®								
Processor	**Intel® Mobile Pentium® III 450 or 500MHz[1] / 100MHz system bus**							
Processor features	No upgrade / processor, L2 cache, and mem cntr (North Bridge) on Mobile Module							
L2 cache	**256KB / onboard (at processor speed)** / sync pipelined burst / write-back / ECC							
Diskette (removable)	3.5" 1.44MB / use in UltraslimBay™ / ships in external diskette enclosure with a cable							
External FDD port	External diskette port on right side (can use simultaneously with internal CD/DVD)							
CD-ROM (removble)	*Std or option:* CD-ROM / 24X-10X[5] speed / bootable / removable from UltraslimBay							
DVD (removable)	*Std or option:* DVD-ROM / bootable / removable from UltraslimBay							
Type - model	**2645-3EU**	**2645-7EU**	**2645-4EU**	**2645-8EU**	**2645-5EU**	**2645-9EU**		
Preload (see side)	**Win 98**	**NT 4.0**	**Win 98**	**Win 2000**	**Win 98**	**NT 4.0**		
Processor	**Pentium III 450MHz**		**Pentium III 500MHz**		**Pentium III 500MHz**			
CD or DVD-ROM	**CD-ROM**		**CD-ROM**		**6X-2.3X[5] DVD /** RPC II			
Disk (removable)	**6.0GB**[4] / 12ms seek read PIO4 or Ultra DMA/33		**12.0GB** / 12ms seek read PIO4 or Ultra DMA/33		**12.0GB** / 12ms seek (read) PIO4 or Ultra DMA/33			
Avail / withdrawn date	Dec 1999 / Jan 2001		Dec 1999 / Jan 2001		Dec 1999 / Jan 2001			
Memory (std / max)	**64MB** / 576MB **SDRAM** / non-parity / **100MHz** / 3.3v / sockets accessed by removing screw on base / two 144-pin sockets / 64MB on planar / 2 sockets available							
Display	**13.3"** (337.8mm) **TFT color** / Active Matrix / XGA / 75ms / 100 to 1 contrast ratio / 640x480, 800x600, or 1024x768 (up to 16.7 million colors) / 150 nits (AC), 90 nits (battery) / 180 degree tilt							
Graphics - controller	**NeoMagic™ MagicGraph256ZX™** (NM2360) / Accelerated Graphics Port / **4MB** / SGRAM (embedded) / 128-bit engine, 256-bit memory interface / AGP 2X							
Graphics - features	**Motion compensation** / multiple-monitor support[26] for Windows 98 / simultaneous LCD and CRT[26] / DDC2B							
Graphics - external	External SVGA to 1024x768x16.7 million colors at 85Hz and 1280x1024x256 colors							
Disk	Left front / remove via coin screw or 2.5mm Allen wrench / SMART[29] / upgradeable							
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / South Bridge / DMA Mode 2, Ultra DMA/33, or PIO Mode 4 / supports 2nd disk in opt HDD adapter							
Keyboard / Fn keys	Full-size 85-key keyboard / 10 Fn key functions / integrated palm rest							
Keyboard slope	Flat keyboard (does not lift up) / optional Port Replicator adds slope							
Pointing device	**TrackPoint®** / Press-to-Select / Release-to-Select / dragging / click pace / center click button for scrolling or magnifying glass / suspension top / spare caps							
Dimensions[36]	Approximately 11.8 x 9.4 x 1.4" (155 cubic inches); 300mm x 240mm x 36.5mm							
Approximate weight[2]	5.0 lbs (2.25 kg) w/ travel cover and battery only / IBM ThinkPad UltraCarbon™ case							
Battery - type	Lithium Ion / intelligent / remove from base / locked with latch							
Battery - life[10]	3.0 hrs / no non-disruptive battery exchange / supports 2nd battery in UltraslimBay							
Charge time[10] - on / off	2 to 3 hrs / 1.5 to 2.5 hrs							
Architecture	**Intel 440BX AGPset** / Intel PIIX4M (EIDE, ISA Bridge, USB) / TI® PCI1450 for CardBus / AGP 2X for graphics / PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, audio, USB, ext expansion) / PC97338 Super I/O / ISA (diskette, serial, parallel, infrared, ext exp)							
Port replicator	**SelectaBase 600** / PC Card Enabler[17] / PC Card Enabler with Advanced EtherJet[17]							
Docking Station	**SelectaDock III**[17] **/** SelectaDock I and II							
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video							
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)							
Other features	APM-aware BIOS / Ultraslim 56 watt AC Adapter barrel, 3 prong / selectable boot							
Video (TV) out	*5EU/9EU:* Video out (composite) / cable ships std with RCA jack / Chrontel CH7004							
MPEG decoder	None (W98 support for MPEG-2 because 300MHz with motion compensation)							
Data/fax modem	**56K**[37] V.90 / 14.4Kbps fax / telephony / voice-capable / Mini-PCI Type IIIb / Lucent® 1646 / international programmable DAA / modem cable							
Audio support	16-bit playback and record / full duplex / SoundBlaster Pro™ support / PCI / CS4624 / CS4297A AC97 codec Int stereo speakers (front) / .5 watt / Fn+PgUp and PgDn (volume) / int microphone							
Jacks	Input jack (3.5 mm) / output jack (3.5 mm) / line in / full duplex							
Infrared ports	Infrared port (on right) / IrDA 1.1 compatible / up to 4Mbps							
Security	Power-on password / hard disk password / supervisor password / security keyhole / personalization / phillips-head screw on base for memory / opt Allen screw for disk							
Limited warranty[11]	**3 year** - carry-in or ThinkPad EasyServ™[31] Rapid Depot Repair (3 business day average turnaround)							
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date							

WINDOWS 98 PRELOAD[16]

- Microsoft® Windows® 98 Second Ed
- ThinkPad Utilities
- Online User's Guide
- ThinkPad Configuration Program
- PC-Doctor
- IBM Registration
- RingCentral Fax
- IBM Global Network Dialer
- Netscape Communicator
- Lotus® SmartSuite® Millennium[20]
- Universal Manageability Services
- ThinkPad on the Net
- ConfigSafe®
- Norton AntiVirus™ (OEM Version)
- Mediamatics DVD Express (5/9EU)
- IBM Update Connector
- Access ThinkPad

✧ Software Selections CD-ROM
✧ Recovery CD-ROM (Windows 98)
✧ Recovery CD-ROM (Windows 95)[40]

WINDOWS NT PRELOAD[16]

- Microsoft Windows NT® 4.0
- Service Pack 5
- ThinkPad Utilities
- Online User's Guide
- ThinkPad Configuration Program
- IBM Registration
- PC-Doctor
- RingCentral Fax
- IBM Global Network Dialer
- Netscape Communicator
- Lotus SmartSuite Millennium[20]
- Universal Manageability Services
- ConfigSafe
- Norton AntiVirus (OEM Version)
- Mediamatics DVD Express (5/9EU)
- IBM Update Connector
- SystemSoft CardWizard

✧ Software Selections CD-ROM
✧ Recovery CD-ROM (Windows NT)

The right bay (UltraslimBay) has LED on release latch to provide status; supports warm swapping:

- std diskette and travel cover
- std or optional CD-ROM
- std or optional DVD drive
- optional UltraslimBay battery (cold swap only; 600E and 600X only)
- optional LS-120 SuperDisk drive (cold swap only)
- optional Zip 100MB drive (cold swap)
- optional HDD adapter; for second disk (cold swap only)
- optional ThinkPad Proven™ solutions[12]

PC 99-compliant
CIM and DMI 2.0 compliant
Wired for Management 1.1a
Wake on LAN® support[28]
APM enabled (ACPI ready)
Local and remote asset management via the IBM Universal Manageability Services
Setup Guide, User's Reference, Quick Reference and Service Information Card, Options by IBM Catalog, Windows 98 or NT manual
Plug and Play 1.0a
Standby, suspend, safe suspend, and hibernation modes
ENERGY STAR compliant
Asset ID™ wireless RF technology (available as special bid option; Atmel® AT24RF08 EEPROM))
International Warranty Service[14]
IBM SystemXtra®[,35]
24 hour / 7 day[30] telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

- IBM Portable Drive Bay	33L1511
- 10/100 EtherJet CardBus with 56K[22] modem	08L3167
- IBM 10/100 EtherJet CardBus PC Card	08L3147

Color depth	LCD	External Monitor			
Resolution	TFT	60Hz	70Hz	75Hz	85Hz
640x480	16M	16M	--	16M	16M
800x600	16M	16M	--	16M	16M
1024x768	16M	16M	16M	16M	16M
1280x1024	--	256	--	--	--

All models:
- C: drive is FAT16 of 2GB
- D: drive is FAT32 (if W98) or FAT16 (if NT) of remaining space

- 6.0GB disk, 12ms, ATA-66	05K9199
- 12.0GB disk, 12ms, ATA-66	05K9200
- 18.0GB disk, 12ms, ATA-66	37L2993
- SelectaBase 600	12J2467
- PC Card Enabler with Adv EtherJet[17]	05K4820
- SelectaDock III[17]	3547003
- Ultraslim 56 watt AC Adapter (3 prong)	02K6545
- 24X-10X[5] CD-ROM (UltraslimBay)	12J2471
32MB SO DIMM 100MHz NP SDRAM	20L0253
- 64MB SO DIMM 100MHz NP SDRAM	20L0254
- 128MB SO DIMM 100MHz NP SDRAM	20L0255
- 256MB SO DIMM 100MHz NP SDRAM	33L3069
- UltraslimBay HDD adaptr (for 2nd disk)	05K5336
- SuperDisk LS-120 (UltraslimBay)	20L1929
- 6X-2X[5] DVD Drive (UltraslimBay)	05K9169
- Zip 100MB UltraslimBay Drive (570/600)	37L1507
- UltraslimBay Battery (600E/X only)	02K6504
- ThinkPad 600 Li-Ion Battery	12J2464

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No warranties are expressed or implied in this summary
✂ 2645-8EU withdrawn effective July 2000
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IBM ThinkPad® 600X (2000) - withdrawn

IBM® ThinkPad®			
Processor	**Intel® Mobile Pentium® III 500MHz[1] with 100MHz system bus or Pentium® III 650MHz[1, 41] with SpeedStep™ technology and 100MHz system bus**		
Processor features	No upgrade / processor, L2 cache, and mem cntr (North Bridge) on Mobile Module		
L2 cache	**256KB / onboard (at processor speed)** / sync pipelined burst / write-back / ECC		
Diskette (removable)	3.5" 1.44MB / use in UltraslimBay™ / ships in external diskette enclosure with a cable		
External FDD port	External diskette port on right side (can use simultaneously with internal CD/DVD)		
CD-ROM (removble)	*Std or option:* CD-ROM / 24X-10X[5] speed / bootable / removable from UltraslimBay		
DVD (removable)	*Std or option:* DVD-ROM / bootable / removable from UltraslimBay		
Type - model	**2645-8PU**	**2645-5FU**	**2645-9FU**
Preload (see side)	**Windows 2000 Pro**	**Windows 98 SE**	**Windows 2000 Pro**
Processor	**Pentium III 500MHz**	**Pentium III 650MHz**	**Pentium III 650MHz**
CD or DVD-ROM	**CD-ROM**	**6X-2X[5] DVD /** RPC II	**CD-ROM**
Disk (removable)	**12.0GB**[4] / 12ms seek read / 14ms write / ATA-66 or PIO Mode 4 / S.M.A.R.T.[29]		
Avail / withdrawn date	February 2000 / February 2001		
Memory (std / max)	**64MB** / 576MB **SDRAM** / non-parity / **100MHz** / 3.3v / sockets accessed by removing screw on base / two 144-pin sockets / 64MB on planar / 2 sockets available		
Display	**13.3"** (337.8mm) **TFT color** / Active Matrix / XGA / 75ms / 100 to 1 contrast ratio / 640x480, 800x600, or 1024x768 (up to 16.7 million colors) / 150 nits (AC), 90 nits (battery) / 180 degree tilt		
Graphics - controller	**NeoMagic™ MagicGraph256ZX™** (NM2360) / Accelerated Graphics Port / **AGP 2X 4MB** / SGRAM (embedded) / 128-bit engine, 256-bit memory interface		
Graphics - features	**Motion compensation** / multiple-monitor support[26] for Windows 98 SE only / simultaneous LCD and CRT[26] / DDC2B		
Graphics - external	External SVGA to 1024x768x16.7 million colors at 85Hz and 1280x1024x256 colors		
Disk	Left front / remove via coin screw or 2.5mm Allen wrench / SMART[29] / upgradeable		
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / South Bridge / DMA Mode 2, Ultra DMA/33, or PIO Mode 4 / supports 2nd disk in opt HDD adapter		
Keyboard / Fn keys	Full-size 85-key keyboard / 10 Fn key functions / integrated palm rest		
Keyboard slope	Flat keyboard (does not lift up) / optional Port Replicator adds slope		
Pointing device	**TrackPoint®** / Press-to-Select / Release-to-Select / dragging / click pace / center click button for scrolling or magnifying glass / suspension top / spare caps		
Dimensions[36]	Approximately 11.8 x 9.4 x 1.4" (155 cubic inches); 300mm x 240mm x 36.5mm		
Approximate weight[2]	4.99 lbs (2.25 kg) w/ travel cover and battery only / IBM ThinkPad UltraCarbon™ case		
Battery - type	Lithium Ion / intelligent / remove from base / locked with latch		
Battery - life[10]	3.0 hrs / no non-disruptive battery exchange / supports 2nd battery in UltraslimBay		
Charge time[10] - on / off	2 to 3 hrs / 1.5 to 2.5 hrs		
Architecture	**Intel 440BX AGPset** / Intel PIIX4M (EIDE, ISA Bridge, USB) / TI® PCI1450 for CardBus / AGP 2X for graphics / PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, audio, USB, ext expansion) / PC97338 Super I/O / ISA (diskette, serial, parallel, infrared, ext exp)		
Port replicator	**SelectaBase 600** / PC Card Enabler[17] / PC Card Enabler with Advanced EtherJet[17]		
Docking Station	**SelectaDock III[17] /** SelectaDock I and II		
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video		
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	APM-aware BIOS / Ultraslim 56 watt AC Adapter barrel, 3 prong / selectable boot		
Video (TV) out	*5FU/9FU:* Video out (composite) / cable ships std with RCA jack / Chrontel CH7004		
MPEG decoder	None (W98 support for MPEG-2 because 300MHz with motion compensation)		
Data/fax modem	**56K**[37] V.90 / 14.4Kbps fax / telephony / voice-capable / Mini-PCI Type IIIb / Lucent® 1646 / international programmable DAA / modem cable		
Audio support	16-bit playback and record / full duplex / SoundBlaster Pro™ support / PCI / CS4624 / CS4297A AC97 codec Int stereo speakers (front) / .5 watt / Fn+PgUp and PgDn (volume) / int microphone		
Jacks	Input jack (3.5 mm) / output jack (3.5 mm) / line in / full duplex		
Infrared ports	Infrared port (on right) / IrDA 1.1 compatible / up to 4Mbps		
Security	Power-on password / hard disk password / supervisor password / security keyhole / personalization / phillips-head screw on base for memory / opt Allen screw for disk		
Limited warranty[11]	**3 year** - carry-in or ThinkPad EasyServ™[31] Rapid Depot Repair (3 business day average turnaround)		
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date		

WINDOWS 98 PRELOAD[16]

- Microsoft® Windows® 98 Second Ed
- ThinkPad Utilities
- Online User's Guide
- ThinkPad Configuration Program
- PC-Doctor
- IBM Registration
- RingCentral Fax
- Netscape Communicator
- Lotus® SmartSuite® Millennium
- ThinkPad on the Net
- ConfigSafe®
- Norton AntiVirus™ (OEM Version)
- Mediamatics DVD Express (5/9FU)
- IBM Update Connector
- Access ThinkPad
- ✧Software Selections CD-ROM
- ✧Recovery CD-ROM (Windows 98 SE)
- ✧Recovery CD-ROM (Windows 95)[40]

WINDOWS 2000 PRELOAD[16]

- Windows 2000® Professional
- ThinkPad Utilities
- Online User's Guide
- ThinkPad Configuration Program
- IBM Registration
- PC-Doctor
- RingCentral Fax
- Netscape Communicator
- Lotus SmartSuite Millennium
- ConfigSafe
- IBM Update Connector
- SystemSoft CardWizard
- ✧Software Selections CD-ROM
- ✧Recovery CD-ROM (Windows 2000)
- ✧Recovery CD-ROM (Windows NT)[40]

The right bay (UltraslimBay) has LED on release latch to provide status; supports warm swapping:

- std diskette and travel cover
- std or optional CD-ROM
- std or optional DVD drive
- optional UltraslimBay battery (cold swap only; 600E and 600X only)
- optional LS-120 SuperDisk drive (cold swap only)
- optional Zip 100MB drive (cold swap)
- optional HDD adapter; for second disk (cold swap only)
- optional ThinkPad Proven™ solutions[12]

PC 99-compliant
CIM and DMI 2.0 compliant
Wired for Management 1.1a
Wake on LAN® support[28]
APM enabled (ACPI ready)
Local and remote asset management via the IBM Universal Manageability Services
Remote setup and low-level maintenance via IBM LANClient Control Manager™
Setup Guide, User's Reference, Quick Reference and Service Information Card, Options by IBM Catalog, Windows 98 or 2000 manual
Plug and Play 1.0a
Standby, suspend, safe suspend, and hibernation modes
ENERGY STAR compliant
Asset ID™ wireless RF technology (available as special bid option; Atmel® AT24RF08 EEPROM))
International Warranty Service[14]
IBM SystemXtra®[,35]
24 hour / 7 day[30] telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

- IBM Portable Drive Bay	33L1511
- 10/100 EtherJet CardBus with 56K[22] modem	08L3167
- IBM 10/100 EtherJet CardBus PC Card	08L3147

Color depth	LCD	External Monitor			
Resolution	TFT	60Hz	70Hz	75Hz	85Hz
640x480	16M	16M	--	16M	16M
800x600	16M	16M	--	16M	16M
1024x768	16M	16M	16M	16M	16M
1280x1024	--	256	--	--	--

Windows 98 model:
- C: drive is FAT16 of 2GB
- D: drive is FAT32 of remaining space

Windows 2000 models:
- C: drive is FAT32 of entire drive

- 6.0GB disk, 12ms, ATA-66	05K9199
- 12.0GB disk, 12ms, ATA-66	05K9200
- 18.0GB disk, 12ms, ATA-66	37L2993
- SelectaBase 600	12J2467
- PC Card Enabler with Adv EtherJet[17]	05K4820
- SelectaDock III[17]	3547003
- Ultraslim 56 watt AC Adapter (3 prong)	02K6545
- 24X-10X[5] CD-ROM (UltraslimBay)	12J2471
- 64MB SO DIMM 100MHz NP SDRAM	20L0254
- 128MB SO DIMM 100MHz NP SDRAM	20L0255
- 256MB SO DIMM 100MHz NP SDRAM	33L3069
- UltraslimBay HDD adaptr (for 2nd disk)	05K5336
- SuperDisk LS-120 (UltraslimBay)	20L1929
- 6X-2X[5] DVD Drive (UltraslimBay); RPC II	05K9169
- Zip 100MB UltraslimBay Drive (570/600)	37L1507
- UltraslimBay Battery (600E/X only)	02K6504
- ThinkPad 600 Li-Ion Battery	12J2464
- IBM 340MB microdrive	00N8073

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No warranties are expressed or implied in this summary
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IBM ThinkPad 701 - withdrawn

IBM® ThinkPad®:	⋊ 701CS dual scan color				⋊ 701C TFT color				
Processor 3.3 volt	80486DX2		IntelDX4		80486DX2		IntelDX4		
Processor speed	50/25 MHz		75/25 MHz		50/25 MHz		75/25		
Coprocessor socket	N/A (math coprocessor std in DX2/DX4)				The 701 has a External Bus Connector to attach either standard MultiPort II or (with optional Adapter Kit) Dock II				
Memory cache	8 KB in DX2; 16 KB in DX4 / no L2 cache								
Diskette	External 3.5" 1.44 MB / hot-pluggable								
Removable CD-ROM	Not supported								
Price (retail USD)	$2,499	2,749	1,499↘	1,649↘	1,799↘	$2,999	3,299	1,999↘	2,149↘	2,299↘
Type - model **all 2630**	US2	US5	2SU	5SU	7SU	UT2	UT5	2TU	5TU	7TU
Removable disk - size	**360 MB**	**540**	**360**	**540**	**720**	**360**	**540**	**360**	**540**	**720**
Hard disk - spd ms	13 ❑	13 ❑	13 ❑	13 ❑	13 ❑	13 ❑	13 ❑	13 ❑	13 ❑	13 ❑
Available date	Mar 95	Mar 95	Mar95	Mar95	Sep95	Mar95	Mar95	Mar95	Mar95	Sep95
Display - type	**VGA color** / 640 x 480					**VGA color** / 640 x 480				
Display - colors	**65,536 simultaneous colors**					**65,536 simultaneous colors**				
Display - techology	**Dual scan**					**TFT - active matrix**				
Display - diagonal size	**10.4 inch** / 20 to 1 contrast ratio					**10.4 inch** / 100 to 1 contrast ratio				
Graphics - controller	CT-65545 with 1 MB DRAM									
Graphics - vendor	Chips & Technologies / External SVGA to 1024 x 768 256 colors (up to 70 Hz)									
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt									
Memory - std / max	**4** / 36 MB		**8** / 40 MB			**4** / 36 MB		**8** / 40 MB		
Memory - type	70 ns / non-parity / 3.3 volt									
Mem - sockets empty	1 socket									
Mem-options available	4, 8, 16, 32 MB SO-DIMMs									
Keyboard / # of keys	**Full size alp/num / 85 key** (15 Fn key functions)									
Keyboard slope	Yes (use MultiPort II stand that flips out)									
Mouse/pointing	**TrackPoint III™ on TrackWrite keyboard**									
Ext keyboard support	Yes (no cable required)									
Dimensions	9.7 x 7.9 x 1.7" (130 cubic inches)									
Color	Black		With keyboard open it expands from 9.7" to 11.5"							
Weight (with battery)	4.5 pounds									
Battery - type	Super NiCad or NiMH (DX4 mdls built after 9/95)									
Battery - life	2.5 to 7 hours **or optional NiMH**									
Charge time - on / off	1.5 hrs / battery will not charge if unit is off									
Architecture	AT bus (ISA)									
Docking Station	Dock II (requires optional Dock II Adapter Kit)									
Port replicator	None (use standard MultiPort II)									
PCMCIA™ 2.1 slots	**2 Type I or 2 Type II or 1 Type III**									
Serial / parallel ports	One 9 pin; 16550A / ECP/EPP parallel 36 pin (IEEE 1284); non-DMA									
Other features	APM-aware BIOS / Wallmount AC adapter (30 watts) w/ 2 prongs / Selectable boot									
Functions	**Data modem, fax modem, audio, telephony function**									
Data/fax modem	**14.4/14.4 data/fax modem function (with RJ11 jack)**									
Audio support	**16 bit audio chip on planar (ESS688 and Yamaha OPL3) / FM Synthesis**									
	Internal speaker (with Fn key volume control) and internal microphone									
Audio in/out jacks	Input jack / microphone jack / output jack									
Telephone	Telephone / answering machine / full duplex speakerphone									
Infrared ports	**Infrared port (on back) / IRDA 1.0 compatible / up to 115.2 Kbps**									
Security	Power-on password / locking device keyhole also called MicroSaver™ security connector (Kensington™ lock)									
Preinstalled software	IBM DOS 6.3, Windows™ 3.11, (and OS/2 Warp on DX4 models), and all appls listed to right:									
Warranty	**3 year** - EasyServ only (optional onsite special bid only)									

ThinkPad 701CS / 701C strengths:

- **Full sized, folding TrackWrite keyboard**
- **Full sized 10.4" color dual scan or TFT display**
- **Subnotebook size and weight (4.5 pounds)**
- **Audio, 14.4/14.4 data/fax modem, telephony**
- **Infrared communication**
- **TrackPoint III and removeable disk**

The two wings (ends) of the TrackWrite™ keyboard slide into position automatically every time the lid is opened or closed

Fn key functions:
- Configuration Utility
- Battery Status
- Standby/Suspend
- Hibernation
- Speaker off (audio mute)
- Hard disk off
- LCD or CRT or both
- Reverse appearance
- Increase/decrease contrast
- Brighten/dim LCD
- Speaker volume up/down

Integrated chipsets provide:

① **Data modem function**
- V.22bis (2400 bps)
- V.32 (9600 bps)
- V.32bis (14.4 Kbps)

② **Fax modem function**
- Class 1 fax send/receive (14.4 Kbps)

③ **Audio function**
- 16 bit audio / 44.1 kHz sampling rate
- Stereo waveform record and playback
- 18 voice MIDI wave table synthesizer
- SoundBlaster™ support
- Text to speech (via Monologue)

④ **Telephone function**
- Full telephone (can use opt headset)
- Telephone answering machine
- Full duplex speakerphone

PREINSTALLED APPLICATIONS

- IBM DOS 6.3
- Windows 3.11

❋ DX4 systems include OS/2 Warp 3.0 (dual boot) with selected BonusPak

- IBM PC Card Director™ for PCMCIA
- IBM ThinkPad Demo
- Online Users Guide
- ThinkPad Features
- Diskette Factory

1. Lotus® cc:Mail™, e-mail for the Global® network
2. Lotus Organizer™ 1.12
3. Lotus ScreenCam™ 1.0
4. Triton CoSession™ Host
5. PRODIGY®; 6. America Online®
7. SofNet FaxWorks™ Voice™ 3.0
8. Video For Windows™ 1.1 Runtime
9. Monologue (text to speech)
10. Puma TranXit™ (infrared function)
11. Taxi™
12. AlphaNet™ FollowFax™
13. SEDONA™ REPRINT™
14. COMPEL™ Personal Edition
15. Audiofile® TalkWorks™
16. Reuters℠ Money® Network

Configuration Utility is entered by Fn+F1 at any time

MultiPort II (ships standard) is 1.7 x .9 x 10" and has ports for:
- Mouse/Numpad connector (6 pin)
- External keyboard connector (6 pin)
- EPP parallel port (25 pin)
- Serial connector (RS-232D - 9 pin)
- Audio line in (3.5 mm)
- Audio line out (3.5 mm)
- External display connector (15 pin)
- DC input connector

ECP/EPP port (36 lines) connects either the external floppy or a printer. The standard External Diskette Drive Cable (13.2") has a 36-pin and a 26-pin connector. The Standard Printer Cable Adapter (7.1") has a 36-pin connector and a 25-pin connector (so a conventional printer cable is needed)

⋊ Withdrawn from marketing eff December 1995

Compatible in all 701 models:

- Disks: 540 MB disk 13 ms	04H6894
720 MB disk 13 ms	10H4096
- Dock II (2 slot / 2 bay)	84G3587
- Dock II Adapter Kit	04H6196
- 4 MB SO-DIMM 3.3v	92G7259
- 8 MB SO-DIMM 3.3v	92G7261
- 16 MB SO-DIMM 3.3v	92G7263
- 32 MB SO-DIMM 3.3v	92G7281
- Universal AC Adapter 30 watts	04H8367
- AC Adapter 30 w, wall, 2 pin	10H4020
- AC Adapter 35 w, ww, 3 pin	85G6680
- Super NiCad Battery	10H4019
- NiMH Battery	25H4862
- MultiPort II	10H4021
- External diskette with cable	10H4068
- EPP Printer Cable & Cable Pack	10H4069

ThinkPad 360, 750, 755 family disks, batteries, memory, and Dock I are NOT compatible in the ThinkPad 701 family

FEATURES OF 701CS / 701C MODELS

Battery life indicator
Non-disruptive battery exchange
Standby, suspend, hibernation, and RediSafe modes
US EPA Energy Star compliant
Personalized nameplate in molded indention

HELPWARE

3 year warranty
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic,and Internet (http://www.pc.ibm.com) support
IBM or dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business days average turnaround). Overnight repair option in US available for $99.

❑ = Upgradeable; ❍ = Removable; ↘ DX4 models had price decrease effective Feb 9, 1996

⋊ = Withdrawn from marketing on or before June 1996

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(701) Compiled by Roger Dodson, IBM. June 1996

IBM ThinkPad 710T, 720, 720C - withdrawn

IBM® ThinkPad®:	⋊ **710T** pen tablet		⋊ **720** monochrome	⋊ **720C** color TFT
Processor type	**80486 SLC**		**80486 SLC2**	**80486 SLC2**
Processor speed	**25 MHz**		**50/25 MHz**	**50/25 MHz**
Memory cache	16 KB internal		16 KB internal	16 KB internal
Coprocessor socket	No		Yes (for 387 SL)	Yes (for 387 SL)
Diskette drive	Optional 3.5" 1.44 MB		3.5" 1.44 MB	3.5" 1.44 MB
Price (retail USD)	$ 1,859	$ 2,749	$ 2,495 ↘	$ 2,655 ↘	$ 4,695
Type - model	2523-09Y	2523-302	9552-307	9552-308	9552-30J
Hard drive - size	Option (TPF)	**60 MB**	**120 MB** ◩	**160 MB** ◩	**160 MB** ◩
Hard drive - speed	5, 10, 15 MB	18.5 ms	17 ms ❍	15 ms ❍	15 ms ❍
Available date	March 93	March 93	May 93	May 93	May 93
Withdrawal date	Sept 94	Sept 94	March 94	March 94	March 94
Display - type	VGA mono		VGA mono ◩	**VGA color**
Display - grey scales	16 grey scales		64 grey scales ◩	256 colors 640x480
Display - techology	STN Transflective		STN ◩	Thin film transistor
Display - light source	LCD - Backlit		LCD - backlit ◩	Active matrix
Display - size (diag)	9.5 inch		9.5 inch ◩	10.4 inch
Display - contrast ratio	3 to 1		18 to 1 ◩	100 to 1
180 degree display tilt	N/A		Yes	Yes
Memory - std / max	4 / 12 MB 80 ns		4 / 16 MB 80 ns	4 / 16 MB 80 ns
Mem - sockets empty	1 socket (parity)		2 sockets (parity)	2 sockets (parity)
SIMM/ICs available	2, 4, 8 MB SIMMs		2, 4, 8 MB ICs	2, 4, 8 MB ICs
Keyboard / # of keys	External (any PS/2 keyboard		Full size alp/num/ 84	Full size alp/num/ 84
Fn key functions	N/A (no keyboard)		None	None
Keyboard slope	N/A is supported)		8 degrees (legs)	8 degrees (legs)
Mouse/pointing	Electromagnetic pen		**TrackPoint II**™	**TrackPoint II**
Ext keyboard support	Yes		Yes (with opt cable)	Yes (with opt cable)
Dimensions	11.6 x 9.6 x 1.4"		11.7 x 8.3 x 1.9"	11.7 x 8.3 x 2.2"
Cubic inches	156 inches		185 inches	214 inches
Carrying case	Blk nylon standard		Many options available	Many options available
Color	Black		Black	Black
Weight (with battery)	5.2 pounds (09Y); 5.5 pounds (302,3)		6.5 pounds	7.6 pounds
Battery - type	Nickel cadmium		Nickel hydride	Nickel hydride
Batt - life (per battery)	3.3 to 4.1 hrs (09Y); 3.1 to 3.8 (302,3)		4 to 8 hours	2.4 to 4.8 hours
Charge time - on / off	N/A / 3 hrs (unit off or suspend only)		3 hrs / 2 hrs	1.5 hrs / 1.4 hrs
Battery - options	Nickel cadmium half size battery		Yes - status indicator	Yes - status indicator
Architecture	Local / AT I/O, DMA		Micro Channel®	Micro Channel
External AT/MCA port	Yes		Yes	Yes
Comm Crtrdge (1 card)	No		Yes (black)	Yes (black)
Docking Station	No		Yes (3550-002) black	Yes (3550-002) black
Port replicator	No		Yes black	Yes black
Modem/serial slot	No		No	No
PCMCIA slots	3 Type II (09Y); 1 Type II (302, 303)		**2 Type I or 2 Type II**	**2 Type I or 2 Type II**
Visible LEDs - closed	N/A		Yes **or 1 Type III**	Yes **or 1 Type III**
Serial / parallel ports	Yes / Yes		Yes / Yes (DMA)	Yes / Yes (DMA)
APM-aware BIOS	No		APM-aware BIOS	APM-aware BIOS
Other features	09Y: PenDOS, PenPoint on optional		Hrdw security loop	Hrdw security loop
Preinstalled software	solid state files (10, 15 MB). 302: PenDOS 2.0; 303: PenPoint		IBM DOS 5.02, PRODIGY®	IBM DOS 5.02, PRODIGY
Warranty	1 year - EasyServ only		**3 year** - carry in or EasyServ (opt onsite)	**3 year** - carry in or EasyServ (opt onsite)

1 Type III PC Card can occupy 2 Type II slots on Model 09Y

Transflective: can turn on backlit in dark areas or turn it off in bright areas

The 700/720 family hard disks, batteries, and docking station are NOT compatible with ThinkPad 360, 750, 755.
The 700/720 memory IS compatible with ThinkPad 360, 750, 755.

FEATURES OF 700/700C and 720/720C

3 year warranty
700/720 mono upgradeable to TFT color
700/700C upgradeable to 486SLC2 50/25
Upgradeable to 120, 160, 240, 340 MB
Removable hard disk
Pressure activated TrackPoint II
Optional battery w/ power status indicators
Quick Charger holds 2 batt; discharge button
Coupon book with $4,000 in savings

↘ Price decrease effective October 28, 1993

⋊ Withdrawn from marketing

FEATURES OF ALL PRODUCTS

Suspend/resume mode; battery life indicator
Non-disruptive battery exchange
Simultaneous LCD and external CRT
US EPA Energy Star compliant
International travelers warranty
IBM or dealer warranty/service
30 day money back guarantee
24 hour / 7 day fax support
24 hour / 7 day bulletin board support
24 hour / 7 day telephone support at 1-800-772-2227

ThinkPad EasyServ™**:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight).
STN = Super twisted nematic; ◩ = Upgradeable; ❍ = Removable

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No warranties are expressed or implied in this summary
(2THINKW) Compiled by Roger Dodson, IBM. September 1994

IBM ThinkPad 730T - withdrawn

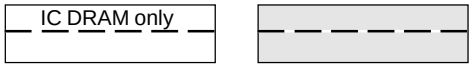
IBM® ThinkPad®:	⋊ 730T pen tablet			
Processor type	**80486SX** (3.3 volt SL Enhanced)			
Processor speed	**33 MHz**			
Memory cache	8 KB internal (no L2 cache)			
Coprocessor socket	No			
Diskette drive	Optional 3.5" 1.44 MB (same as ThinkPad 710T and 730TE)			
Price (retail USD)	$2,569	$2,879	$3,119	$3,429
Type - model	2524-801	2524-901	2524-80F	2524-90F
Hard drive - size	Option (required	Option (required	**105 MB PCMCIA**	**105 MB PCMCIA**
Hard drive - speed	via PCMCIA disk)	via PCMCIA disk)	15 ms	15 ms
Preinstalled software	N/A	N/A	IBM DOS 6.3 Windows for Pen Computing	IBM DOS 6.3 Windows for Pen Computing
Avail / withdrawn date	May 1994 / June 1996	May 1994 / June 1996	May 1994 / June 1996	May 1994 / June 1996
Memory - std / max	4 / 20 MB	8 / 24 MB	4 / 20 MB	8 / 24 MB
Mem - sockets empty	Uses a specific Type III PCMCIA slot; this will then permit a Type I or II PCMCIA card in rest of slot			
Memory - type	70 ns / non-parity / 5.0 volt			
Memory - options	4, 8, 16 MB ICs			
Display - type	VGA 640 x 480 monochrome	(External display is 640 x 480 with 16 colors)		
Display - grey scales	16 grey scales	(Simultaneous LCD and CRT display)		
Display - techology	STN Transflective	Transflective: can turn on backlight in dark areas or turn it off in bright areas		
Display - light source	LCD - Backlit			
Display - size (diag)	9.5 inch			
Display - contrast ratio	3 to 1			
Keyboard	External (any IBM keyboard is supported; attach to port replicator)			
Mouse/pointing	Electromagnetic pen/digitizer/stylus that realistically simulates the feel of pen-to-paper / untethered / batteryless (a mouse is not supported) / stylus is stored in a compartment on bottom			
Dimensions	10.6 x 8.3 x 1.4"			
Cubic inches	123 inches			
Carrying case	Blk nylon standard (many options also available)			
Color	Black			
Weight (with battery)	3.5 pounds (1 battery); 3.9 pounds (2 batteries)			
Battery - type	Nickel hydride (NiMH)	A false battery pack ships standard if only want to use one battery		
Battery - quantity	Two batteries ship standard / can use one or two batteries			
Batt - life (per battery)	1 battery: 2 to 5 hours 2 battery: 4 to 10 hours			
Charge time - on / off	N/A / 1.5 hours (unit off or suspend only)			
Architecture	Local memory bus / ISA			
Docking Station	No			
Port replicator	Yes (ships standard / attach to 200 pin connector) Port Replicator includes ① 15 pin external CRT port, ② 9 pin 16550A serial port, ③ 25 pin EPP parallel port, ④ diskette drive connector, ⑤ keyboard port, ⑥ DC port for AC connector			
Modem/serial slot	No (use PCMCIA)			
PCMCIA 2.01 slots	**3 Type II or 2 Type III** as follows: 1st slot: 2 Type II or 1 Type III (but any additional memory must go into this slot; so adding IC DRAM memory will leave 1 Type II slot remaining) 2nd slot: 2 Type II or 1 Type III (105 MB PCMCIA disk in Models 80F/90F is installed here)			
Serial / parallel ports	Yes (on Port Replicator) / Yes (on Port Replicator)			
Warranty	**3 year** - ThinkPad EasyServ™			

The ThinkPad 730T requires a bootable operating system with Pen capability. Supported is:

- PenDOS® 2.2 with IBM DOS 6.3
  84G9180 - PCMCIA HDD 105 MB PenDOS preloaded
- Pen for OS/2 1.0 with OS/2® 2.11
  84G9190 - PCMCIA HDD 105 MB Pen for OS/2 preloaded
- Windows for Pen Computing® 3.1 with IBM DOS 6.3
  Models 80F/90F are preloaded with Windows for Pen Computing
- PenRight!® (available at dealers)

PCMCIA SLOT CONFIGURATION

Two Type III (10 mm high):



PCMCIA Type III
260 MB disk in this slot
(Model B0F)

Quick Charger	66G9540
Car Battery Adapter	66G9545
NiMH Battery (dual)	66G9550
AC Adapter 20 watts	84G0480
PortReplicator	84G0485
External 3.5" 1.44 MB diskette drive	48G8263
105 MB HDD (PenDOS)	84G9180
105 MB HDD (PenOS2)	84G9190
Hand Strap	84G0495
Soft Case	84G0490
Battery Case	84G0500

4 MB IC DRAM 70 ns 5v non-parity	92G7236
8 MB IC DRAM 70 ns 5v non-parity	92G7237
16 MB IC DRAM 70 ns 5v non-parity	92G7424

FEATURES OF THINKPAD 730T

Suspend/resume mode
Battery life indicator
Non-disruptive battery exchange
US EPA Energy Star compliant
3 year warranty
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, and electronic support
IBM warranty/service
30 day money back guarantee

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
⋊ = Withdrawn from marketing

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No warranties are expressed or implied in this summary
(730T) Compiled by Roger Dodson, IBM. June 1996

IBM ThinkPad 730TE - withdrawn

IBM® ThinkPad®:	⪪ 730TE pen tablet	
Processor	**IntelDX4™ 75/25 MHz**	
Memory cache	16 KB in DX4 (no L2 cache)	
Coprocessor socket	N/A; standard in IntelDX4	
Diskette drive	Optional 3.5" 1.44 MB (same as ThinkPad 710T and 730T)	
Price (retail USD)	$ 2,849	$ 3,499
Type - model	2524-B01	2524-B0F
Part number	39H5976	39H5975
Hard drive - size	Option (required	**260 MB PCMCIA**
Hard drive - speed	via PCMCIA disk)	12 ms / 4500 rpm / 16 MB/sec burst transfer rate / 5.7 MB/sec media transfer rate
Preinstalled software	N/A	IBM DOS 7.0 Windows for Pen Computing
Avail / withdrawn date	Oct 1995 / July 1997	October 1995 / July 1997
Memory - std / max	8 / 24 MB	
Mem - sockets empty	Uses a specific Type III PCMCIA slot; this will then permit a Type I or II PCMCIA card in rest of slot	
Memory - type	70 ns / non-parity / 5.0 volt	
Memory - options	4, 8, 16 MB ICs	
Display - type	VGA 640 x 480 monochrome	(External display is 640 x 480 with 16 colors)
Display - grey scales	16 grey scales	(Simultaneous LCD and CRT display)
Display - techology	STN Transflective	
Display - light source	LCD - Backlit	Transflective: can turn on backlight in dark areas or turn it off in bright areas
Display - size (diag)	9.5 inch / 3 to 1 contrast ratio	
Graphics controller	Western Digital WD90C24A / VL-Bus 2.0 local bus / 1 MB DRAM memory	
Keyboard	External (any IBM keyboard is supported; attach to port replicator)	
Mouse/pointing	Electromagnetic pen/digitizer/stylus that realistically simulates the feel of pen-to-paper / untethered / batteryless (a mouse is not supported) / stylus is stored in a compartment on bottom	
Dimensions	10.6 x 8.3 x 1.4"	
Cubic inches	123 inches	
Carrying case	Blk nylon standard (many options also available)	
Color	Black	
Weight (with battery)	3.5 pounds (1 battery); 3.9 pounds (2 batteries)	
Battery - type	Nickel hydride (NiMH)	A false battery pack ships standard if only want to use one battery
Battery - quantity	Two batteries ship standard / can use one or two batteries	
Batt - life (per battery)	1 battery: 1.65 to 5 hours 2 battery: 3.3 to 10 hours	
Charge time - on / off	N/A / 1.5 hours (unit off or suspend only)	
Architecture	Local memory bus / ISA	
Docking Station	No	
Port replicator	Yes (ships standard / attach to 200 pin connector) Port Replicator includes ① 15 pin external CRT port, ② 9 pin 16550A serial port, ③ 25 pin EPP parallel port, ④ diskette drive connector, ⑤ keyboard port, ⑥ DC port for AC connector	
Modem/serial slot	No (use PCMCIA)	
PCMCIA™ 2.1 slots	**3 Type II or 2 Type III** as follows: 1st slot: 2 Type II or 1 Type III (but any additional memory must go into this slot; so adding IC DRAM memory will leave 1 Type II slot remaining) 2nd slot: 2 Type II or 1 Type III (260 MB PCMCIA disk in Model B0F is installed here)	
Serial / parallel ports	Yes (on Port Replicator) / Yes (on Port Replicator)	
Security	Power-on password	
Warranty	**3 year** - ThinkPad EasyServ™ (Optional Overnight Repair Option)	

The 730TE is the same as the 730T (older models) except:

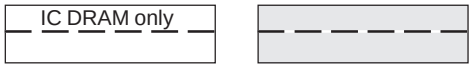
730T	730TE
➪ 486SX - 33 MHz	➪ IntelDX4 - 75/25 MHz
➪ 105 MB disk preloads	➪ 260 MB disk preloads
	➪ Improved storage door for pen

The ThinkPad 730T requires a bootable operating system with Pen capability.
Supported is:

- PenDOS® 2.2 with IBM DOS 7.0
  39H6014 - PCMCIA HDD 260 MB PenDOS preloaded
- Pen for OS/2 1.03 with OS/2® Warp
  39H6017 - PCMCIA HDD 260 MB Pen for OS/2 preloaded
- Windows for Pen Computing® 1.0 with IBM DOS 7.0/Windows 3.11
  Model B0F is preloaded with Windows for Pen Computing
- PenRight! ® (available at dealers)

PCMCIA SLOT CONFIGURATION

Two Type III (10 mm high):



PCMCIA Type III
260 MB disk in this slot
(Model B0F)

Quick Charger	66G9540
Car Battery Adapter	66G9545
NiMH Battery (dual)	66G9550
AC Adapter 20 watts	84G0480
PortReplicator	84G0485
External 3.5" 1.44 MB diskette drive	48G8263
Hand Strap	84G0495
Soft Case	84G0490
Battery Case	84G0500

260 MB HDD PCMCIA Type III (Blank)	06H9077
260 MB HDD PCMCIA Type III (Warp for Pen)	39H6017
260 MB HDD PCMCIA Type III (PenDOS)	39H6014
4 MB IC DRAM 70 ns 5v non-parity	92G7236
8 MB IC DRAM 70 ns 5v non-parity	92G7237
16 MB IC DRAM 70 ns 5v non-parity	92G7424

FEATURES OF THINKPAD 730TE

Suspend/resume mode
Battery life indicator
Non-disruptive battery exchange
US EPA Energy Star compliant
3 year warranty
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, and electronic support
IBM warranty/service
30 day money back guarantee

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.

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No warranties are expressed or implied in this summary
(730TE) Compiled by Roger Dodson, IBM. June 1997

IBM ThinkPad 750 - withdrawn

IBM® ThinkPad®:	⋊ **750** monochrome		⋊ **750Cs** passive color		⋊ **750C** color TFT		⋊ **750P** convertible pen		⋊ **Traveling Multimedia** preconfigured system
Processor type	*All:* **80486 SL** with math co		The removed diskette drive can be utilized externally via the optional 'FDD External Kit' (includes cable and enclosure; $135) to the ① Port Replicator Model I, ② Port Replicator Model II, or ③ Dock I Docking Station.						A preconfigured, multimedia **750C;** Available Sept 93; $ 7,245 ↘
Processor speed	*All:* **33 MHz**								
Memory cache	*All:* 8 KB internal								
Coprocessor socket	*All:* N/A (std in 486SL)								
Diskette drive	*All:* 3.5" 2.88 MB ❍								
Price (retail USD)	$ 3,199	$ 3,749	$ 2,599 ↘	$ 2,999 ↘	$ 4,699	$ 5,249	$ 2,599	$ 2,999	Included with the IBM Traveling Multimedia:
Type - model	9545-006	9545-008	9545-206	9545-208	9545-306	9545-308	9545-40C	9545-40E	Hardware:
Hard drive - size	**170 MB**◩	**340 MB** ◩	**170 MB**◩	**340 MB** ◩	**170 MB**◩	**340 MB** ◩	**170 MB**◩	**340 MB** ◩	- 750C (all features listed on left)
Hard drive - speed	15 ms ❍	14 ms ❍	15 ms ❍	14 ms ❍	15 ms ❍	14 ms ❍	15 ms ❍	14 ms ❍	- 340MB removable hard disk
Avail / withdrawal date	Sept 93 / withd Sep 94		Nov 93 / withd Sept 94		Sept 93 / withd Sep 94		Sept 93 / withd Sept 94		- 12 MB memory (4 MB std + 8 MB IC DRAM card)
Display - type	VGA mono ◩ ◩		**VGA color**		**VGA color**		VGA mono		- 14.4 Data/Fax modem (PCMCIA)
Display - grey scales	64 grey scales ◩ ◩		256 colors 640x480		256 colors 640x480		64 grey scales		- Dock I (Docking Station)
Display - techology	STN ◩ ◩		STN - passive matrix		Thin film transistor		STN - **pen enabled**		- CD-ROM/XA - double speed and Kodak Photo CD multisession
Display - light source	LCD - Sidelit ◩ ◩		LCD - Sidelit		**Active matrix**		LCD - Sidelit		- Dock I Carrying Case
Display - size (diag)	9.5 inch ◩ ◩		9.5 inch **Dual scan**		10.4 inch		9.5 inch		
Display - contrast ratio	18 to 1 ◩ ◩		20 to 1		100 to 1		18 to 1		Software:
180 degree display tilt	Yes (external SVGA)		Yes (external SVGA)		Yes (external SVGA)		Yes (external SVGA)		- Windows 3.1
Memory - std / max	*All:* 4 / 20 MB 70 ns		*Additional video features for all:* 1 MB DRAM video memory / Video controller is Western Digital WD90C24 / Accelerator / 16 bit AT bus / Simultaneous LCD & CRT / External VGA is SVGA (to 1024x768)						- Asymetrix COMPEL™ (on screen multimedia presentations)
Mem - sockets empty	*All:* 1 socket (parity)								- Asymetrix MediaBlitz! (library of media clips)
SIMM/ICs available	*All:* 2, 4, 8, 16 MB ICs								- LapLink™ V (file transfer via cable or modem)
Keyboard / # of keys	*All:* Full size alp/num/ 85		Fn key functions to instantly change in any appl:						- Delrina WinFax PRO (fax software)
Keyboard slope	*All:* Yes (legs pop out)		① Fuel guage ④ Speaker volume ⑦ High intensity text						
Mouse/pointing	*All:* **TrackPoint II**		② Standby mode ⑤ LCD/ext CRT/both ⑧ Power mgmt mode						**ALL 750 MODELS**
Ext keyboard support	*All:* Yes (with option cable)		③ Suspend mode ⑥ Reverse video ⑨ Hibernation mode						***Liftable (pop-up) keyboard* to access diskette drive, disk, battery, and memory**
Dimensions	11.7 x 8.3 x 1.7"		11.7 x 8.3 x 2.0"		11.7 x 8.3 x 2.0"		11.7 x 8.3 x 2.1"		
Cubic inches	165 inches		194 inches		194 inches		204 inches		
Carrying case	Blk nylon (option)		Blk nylon (option)		Blk nylon (option)		Blk nylon (option)		
Color	Black		Black		Black		Black		
Weight (with battery)	5.5 pounds		6.2 pounds		6.4 pounds		6.6 pounds		
Battery - type	Nickel hydride (smart)		Nickel hydride (smart)		Nickel hydride (smart)		Nickel hydride (smart)		
Batt - life (per battery)	5.3 to 12 hours		3.5 to 8 hours		3.4 to 8 hours		5.1 to 12 hours		
Charge time - on / off	1.5 hrs / 1.5 hrs		2.0 hrs / 1.5 hrs		2.0 hrs / 1.5 hrs		1.5 hrs / 1.5 hrs		
Architecture (ext port)	*All:* AT bus (with external port)		*Diskette drive can be removed ① to reduce weight, ② to insert cellular modem (CDPD), ③ to insert TV Tuner (for on screen TV and VCR playback), or ④ to add other third party options.*						
Docking Station	*All:* Yes (Dock I and II below)								
Port replicator	*All:* 2 types (below)								
PCMCIA 2.01 slots	*All:* **2 Type I or 2 Type II or 1 Type III**								
Serial / parallel ports	*All:* Yes (one 9 pin) / Enhanced Parallel Port (EPP) with 2 MB/sec transfer speed (non-DMA)								
Other features	*All:* BIOS/Easy Set up/Diagnostics in FLASH EEPROM / APM-aware BIOS / Hibernation mode								
Audio support	*All:* 16 bit audio chip on planar with Mwave audio codec / Internal high fidelity speaker								
Audio in/out jacks	*All:* Input jack supports microphone / Output jack supports headphone or stereo speakers								
Security	*All:* Hardware security loop / Power-on password / Supervisor password (privileged access password) for hardware config changes / Hard disk password (HDP) allows use of disk								
Preinstalled software	DOS 6.1, PRODIGY® Online info, demo		DOS 6.1, PRODIGY Online info, demo		DOS 6.1, PRODIGY Online info, demo		DOS 6.1, Windows™ 3.1, PenDOS™ 2.2, Windows for Pen, PRODIGY, Online info, demo		
Warranty	**3 year** - carry in or EasyServ (opt onsite)		**3 year** - carry in or EasyServ (opt onsite)		**3 year** - carry in or EasyServ (opt onsite)		**3 year** - carry in or EasyServ (opt onsite for $40 each year; all mod)		

The 700/720 family hard disks, batteries, and docking station are NOT compatible with 750. The 700/720 memory IS compatible with 750

Dock I (Docking Station) $685

SCSI-1 controller; two stereo speakers;
One full-size 16 bit AT bus slot; 6.0 pounds;
One bay (slim high 1") for 3.5" or 5.25" devices
Can house removable disk from 360/750/755;
Replication of ports on back of 360750/755;
Additional ports: SCSI, audio, speaker, video in, diskette, headphone jack; handle/palm rest;

Dock II (Docking Station) $719

SCSI-2 Fast controller; two stereo speakers;
Two full-size 16 bit AT bus slots; 17.6 pounds;
Two 5.25" bays (1" high (SL) and 1.5" high HH);
Can house removable disk from 360/750/755;
Two PCMCIA slots (Type II and III);
Many ports including audio, diskette, SCSI;
Plug and Play ready

Port Replicator Model I $299

2 Type I or 2 Type II or 1 Type III PCMCIA slots
Provides cable management because all the cables attach to Replicator, not the ThinkPad
Replication of Ports: mouse, keyboard, SVGA, parallel port, serial, diskette port, DC power

Port Replicator Model II $109

Same as Model I except *no* PCMCIA slots

750 MONOCHROME

Upgradeable to ① monochrome pen enabled screen (same as 750P), or ② 10.4" TFT color

750Cs DUAL SCAN COLOR

Dual scan passive matrix color screen

750C ACTIVE MATRIX COLOR

Largest 10.4" active matrix color screen

750P CONVERTIBLE PEN

Same display as the 750 monochrome.
Can be used in normal upright position or folded down into a position suitable for writing via the standard untethered stylus.

Cellular Digital Packet Data (CDPD) Mobile Communications Module

Provides transmission of analog and digital data using a cellular telephone.
Supported on 750, 750Cs, 750C (not 750P).
High speed 14.4 bps data/fax modem, AMPS cellular, and CDPD transceiver; wire or wireless; available April 1994; $1,999

Many other options available from IBM

FEATURES OF ALL 750 FAMILY

3 year international warranty
16 bit audio chip on planar (Mwave™)
Headphone (out)/microphone (in) audio jacks
Removable and upgradeable hard disks
Removable diskette drive
Pressure activated TrackPoint II
Std intelligent battery with built in processor for accurate monitoring on screen
Discharge battery via mouse click
Quick Charger holds 2 batt; discharge button
Non-disruptive battery exchange
Standby / suspend / hibernation modes
Hibernation mode saves memory to the hard disk and shuts system off
Selectable boot
US EPA Energy Star compliant
Personalized nameplate in molded indention
Coupon book with $4,000 in savings
IBM or dealer warranty/service
30 day money back guarantee
24 hour / 7 day fax support
24 hour / 7 day bulletin board support
24 hour / 7 day telephone support

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back within 4 business days (no shipping charges, most shipping is overnight). ◩ = Upgradeable ; ❍ = Removable; ↘ Price decrease effective October 17, 1994

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No warranties are expressed or implied in this summary
(750THINK) Compiled by Roger Dodson, IBM. October 1994

IBM ThinkPad 755 - withdrawn

IBM® ThinkPad®:	⋊ **755Cs** dual scan color						⋊ **755C** TFT color						⋊ **Traveling Multimedia** preconfigured system
Processor type	**80486 DX2** ❑ to DX4			**IntelDX4**			**80486 DX2** ❑ to DX4			**IntelDX4**			A preconfigured, multimedia**755C;**
Processor speed	**50/25 MHz** 3.3 volt			**75/25 MHz** 3.3 volt			**50/25 MHz** 3.3 volt			**75/25 MHz** 3.3 volt			Available June 94;
Memory cache	8 KB internal (no L2)			16 KB internal (no L2)			8 KB internal (no L2)			16 KB internal (no L2)			withdrawn Dec 95
Coprocessor socket	N/A (std in 486DX2)			N/A (std in 486DX4)			N/A (std in 486DX2)			N/A (std in 486DX4)			Part#2337289
Removable diskette	3.5" 1.44 MB ❍			3.5" 1.44 MB ❍			3.5" 1.44 MB ❍			3.5" 1.44 MB ❍			$ 6,399 ➴
Price (retail USD)	$3,399	$3,899	$4,299	$3,899	$4,399	$4,799	$2,799	$3,099	$3,449	$3,399	$3,699	$3,999	Included with the IBM Traveling Multimedia:
Type - model **all 9545**	E0C	E0E	E0G	K0C	K0E	K0G	F0C	F0E	F0G	L0C	L0E	L0G	
Removable disk - size	**170** ❑	**340** ❑	**540** ❑	**170** ❑	**340** ❑	**540** ❑	**170** ❑	**340** ❑	**540** ❑	**170** ❑	**340** ❑	**540** ❑	Hardware:
Hard disk - speed ms	15 ❍	14 ❍	14 ❍	15 ❍	14 ❍	14 ❍	15 ❍	14 ❍	14 ❍	15 ❍	14 ❍	14 ❍	- 755C Model L0G
Avail / withdrawn date	Jun 94 / May 95			Jun 94 / May 95			Jun 94 / Dec 95			Jun 94 / Dec 95			- DX4 75/25 with all features listed on left
Display - type	**VGA color**						**VGA color**						- 540 MB removable hard disk
Display - colors	256 colors 640x480 (pallette of 4096 colors)						256 colors 640x480 (pallette of 262,144 colors)						- 8 MB memory (4 MB std + 4 MB DIMM on Memory Adapter)
Display - techology	STN - passive matrix						**TFT - active matrix**						- 14.4 Data/Fax modem (PCMCIA)
Display - light source	LCD - Sidelit						LCD - Backlit						- Dock I (Docking Station)
Display - size (diag)	9.5 inch **Dual scan**						10.4 inch						- CD-ROM/XA - double speed and Kodak Photo CD multisession
Display - contrast ratio	20 to 1						100 to 1						- Dock I Carrying Case
Graphics - controller	*All:* WD90C24A or WD90C24A2 with 1 MB DRAM / Graphics WinMarks 4.0 = 4.3												- Interlink® ProPoint™
Graphics - vendor	*All:* Western Digital / External SVGA to 1024 x 768 w/ 256 colors												
Graph - arch/data path	*All:* VL-Bus / 32 bit VESA local bus / Simultaneous LCD and CRT / 180 degree tilt												Software - same as 755C plus:
Memory - std / max	*All:* 4 / 36 MB 70 ns			*Memory upgraded via ① 1 open socket for IC memory card for 20 MB max or ② new DIMM technology for max of 36 MB with 4 or 16 MB JEDEC 72 pin SO DIMMs on optional Memory Module Adapter.*									- Asymetrix® COMPEL™
Mem - sockets empty	*All:* 1 socket (parity)												- Asymetrix MediaBlitz! (library of media clips)
Mem-options available	*All:* 2, 4, 8, 16, 32 MB ICs or 4, 16 MB DIMMs that works on optional Memory Module Adapter												- LapLink™ V
Keyboard / # of keys	*All:* Full size alp/num/ 85			Fn + F2 = Fuel guage			Fn + F7 = Ext display/LCD						- Picture Factory™
Fn key functions	*All:* 8 (in any appl)			Fn + F3 = Standby			Fn + F8, F9, F10 = (reserved)						- TalkWorks™
Keyboard slope	*All:* Yes (legs pop out)			Fn + F4 = Suspend			Fn + F11 = Power mgmt						- Sound Effects Library
Mouse/pointing	*All:* **TrackPoint II**™			Fn + F5 = Audio decrease			Fn + F12 = Hibernation mode						- ClickArt™ 2000
Ext keyboard support	*All:* Yes (with option cable)			Fn + F6 = Audio increase									
Dimensions	*All:* 11.7 x 8.3 x 2.0" (194 cubic inches)			*Easy-Setup is entered by holding F1 when turning on.*									
Color	*All:* Black												
Weight (with battery)	6.1 pounds						6.4 pounds						
Battery - type	Nickel hydride (smart)						Nickel hydride (smart)						*Intelligent battery with a processor to allow accurate monitoring of battery condition and accurate fuel guage.*
Batt - life (per battery)	4 to 8 hours						3.1 to 8 hours						
Charge time - on / off	2 hrs / 1.5 hrs						2.0 hrs / 1.5 hrs						
Architecture	*All:* AT bus (ISA)			*Diskette drive can be removed ① to reduce weight, ② to insert cellular modem (CDPD), ③ to insert TV Tuner (for on screen TV and VCR playback), or ④ to add other third party options.*									
Docking Station	*All:* **Yes** (Dock I and II below)												
Port replicator	*All:* **Yes** (2 types below)												
PCMCIA™ 2.1 slots	*All:* **2 Type I or 2 Type II or 1 Type III**												
Serial / parallel ports	*All:* Yes (one 9 pin; 16550A) / Enhanced Parallel Port (EPP); non-DMA												
Other features	*All:* APM-aware BIOS / Hibernation mode / Wallmount A/C adapter (40 watts) / Selectable boot												
Audio support	*All:* 16 bit audio chip on planar / Crystal Semiconductor CS4248 / Internal speaker and microphone												
Audio in/out jacks	*All:* Input jack supports microphone / Output jack supports headphone or stereo speakers												
Security	*All:* Power-on password / Hard disk password / Supervisor password (for hardware config changes) / Hardware security loop / PCMCIA card lock / (Security Base optional)												
Preinstalled software	*All:* IBM DOS 6.3, Windows 3.1, Demo, and 8 applications: ① Lotus® cc:Mail, e-mail for Advantis® network, ② Lotus Organizer 1.12, ③ Lotus ScreenCam 1.0, ④ Official Airline Guide Flight Disk® 1.0, ⑤ Triton CoSessions™ Host, ⑥ PRODIGY®, ⑦ America Online℠, ⑧ SofNet FaxWorks™ 3.0												
Warranty	*All:* **3 year** - carry in or EasyServ (opt onsite $40 yr)			*The removed diskette drive can be used externally via the optional 'FDD External Kit' (includes cable and enclosure; $135) to the Port Replicator Model I and II and Dock I.*									

ALL 755 MODELS
***Liftable (pop-up) keyboard* to access and remove diskette drive, disk, battery, and memory**

Dock I (Docking Station) $685
SCSI-1 controller; two stereo speakers;
One full-size 16 bit AT bus slot; 6.0 pounds;
One bay (slim high 1") for 3.5" or 5.25" devices
Can house removable disk from 360/750/755;
Replication of ports on back of 360/750/755;
Additional ports: SCSI, audio, speaker, video in, diskette, headphone jack; handle/palm rest;

Dock II (Docking Station) $719
SCSI-2 Fast controller; two stereo speakers;
Two full-size 16 bit AT bus slots; 17.6 pounds;
Two 5.25" bays (1" high (SL) and 1.5" high HH);
Two PCMCIA slots (Type II and III);
Many ports including audio, diskette, SCSI;
Plug and Play ready

Port Replicator Model I $299
2 Type I or 2 Type II or 1 Type III PCMCIA slots
Provides cable management because all the cables attach to Replicator, not the ThinkPad
Replication of Ports: mouse, keyboard, SVGA, parallel port, serial, diskette port, DC power

Port Replicator Model II $109
Same as Model I except *no* PCMCIA slots

The ThinkPad 755 family supports all of the options of the ThinkPad 750 family.

Compatible in 360, 750, and 755 family:
- Hard disks (170, 250, 340, 540, 810 MB)
- Batteries (see below)
- Dock I and Dock II - Diskette drive
- Port Replicator I - AC Adapter
- Port Replicator II - Quick Charger
- CDPD Mobile Module (not pen models)

ThinkPad IC memory for 700, 720, 750, and 755 are all compatible.

The 700 and 720 family hard disks, batteries, and docking station are NOT compatible with 750 or 755 family.

Battery compatibility:		360	750	755
84G2392	360 NiMH battery	Y	N	N
66G2846	750 NiMH battery	Y	Y	Y

Y = battery supported; N = not supported

Winstone 94 for 755C DX4 = 37.8

Cellular Digital Packet Data (CDPD) Mobile Communications Module $1,999
Provides transmission of analog and digital data using a cellular telephone.
Supported on all 360/750/755 (except 750P).
14.4 bps data/fax modem, AMPS cellular, and CDPD transceiver; wire or wireless.

FEATURES OF ALL 750 and 755 FAMILY
Discharge battery via mouse click
Quick Charger holds 2 batt; discharge button
Battery life indicator
Non-disruptive battery exchange
Standby / suspend / hibernation modes
EasyPlaying (PC Card Director™) preinstalled and included on Utility Diskette (755 only)
US EPA Energy Star compliant
Personalized nameplate in molded indention
International travelers warranty
IBM or dealer warranty/service
30 day money back guarantee
24 hour / 7 day fax support
24 hour / 7 day bulletin board support
24 hour / 7 day telephone support

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business days average turnaround). Overnight repair option in US available for $99.
❑ = Upgradeable ❍ = Removable ➴ Price decrease effective May 11, 1995

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No warranties are expressed or implied in this summary
⋊ Withdrawn from marketing
(755THINK) Compiled by Roger Dodson, IBM. December 1995

IBM ThinkPad 755CSE / CE - withdrawn

IBM® ThinkPad®:	✂ 755CSE dual scan color			✂ 755CE TFT color		
Processor type	**IntelDX4**ä / no L2 cache					
Processor speed	**100/33 MHz** / 3.3 volt					
Processor / L2 upgrade	Pentium 75/50 MHz which includes L2 cache of 256 KB / write-through / direct mapped / 12 ns / soldered					
Removable diskette	Internal 3.5" 1.44 MB ❍ / supports internal 2.88 MB diskette					
Removable CD-ROM	Supports PCMCIA Cartridge, TV Tuner, or CDPD in diskette bay Not supported (Diskette bay is called UltraBayä)					
Price (retail USD)	$ 3,499 ↘	$ 3,849 ↘	$ 4,299 ↘	$ 4,299 ↘	$ 4,649 ↘	$ 5,099 ↘
Type - model	9545-6BC	9545-6BD	9545-6BE	9545-7BC	9545-7BD	9545-7BE
Removable disk - size	**340 MB** ◩	**540 MB** ◩	**810 MB**	**340 MB** ◩	**540 MB** ◩	**810 MB**
Removable disk - spd	14 ms ❍	14 ms ❍	14 ms ❍	14 ms ❍	14 ms ❍	14 ms ❍
Available date	Nov 1994	Nov 1994	Nov 1994	Oct 1994	Oct 1994	Oct 1994
Display - type	**VGA color** / 640 x 480			**VGA color** / 640 x 480		
Display - colors	256 simultaneous colors			**65,536 simultaneous colors**		
Display - techology	**Dual scan**			**Black Matrix TFT - active matrix**		
Display - diagonal size	**10.4 inch** / 20 to 1 contrast ratio			**10.4 inch** / 100 to 1 contrast ratio		
Graphics - controller	WD90C24A2 with 1 MB DRAM					
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 w/ 256 colors (up to 75 Hz)					
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt					
Memory - std / max	8 MB / 40 MB 70 ns / **parity** / 5 volt					
Mem - sockets empty	1 socket					
Mem-options available	2, 4, 8, 16, 32 MB ICs or 4, 8, 16 MB DIMMs that work on optional Memory Module Adapter					
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)					
Keyboard slope	Yes (legs pop out)					
Mouse/pointing	**TrackPoint III**™					
Ext keyboard support	Yes (with option cable)					
Dimensions	11.7 x 8.3 x 1.96" (190 cubic inches)					
Color	Black					
Weight (with battery)	6.4 pounds					
Battery - type	Nickel hydride (NiMH) / intelligent					
Battery - life	3.3 to 10 hours					
Charge time - on / off	1.7 hrs / 1.2 hrs					
Architecture	AT bus (ISA)					
Docking Station	Dock I and II					
Port replicator	Port Replicator I and II					
PCMCIA™ 2.1 slots	**2 Type I or 2 Type II or 1 Type III**					
Serial / parallel ports	One 9 pin; 16550A / Enhanced Parallel Port (EPP and ECP)					
Other features	APM-aware BIOS / Wallmount A/C adapter (40 watts) / Selectable boot					
DSP function	**Mwave MDSP2780 DSP with modem, fax, audio, telephony function**					
Data/fax modem	**Data/fax modem function via DSP**					
Audio support	**16 bit audio chip on planar with Mwave DSP** **Internal speaker (with dial volume control) and internal microphone**					
Audio in/out jacks	Input jack / output jack supports					
Telephone	Telephone / answering machine / full duplex speakerphone					
Infrared ports	**Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs**					
Security	Power-on password / Hard disk password / Supervisor password / Hardware security loop / Keyboard lock / locking device keyhole (Kensington™ MicroSaver™ cable lock) / PCMCIA card lock					
Preinstalled software	IBM DOS 6.3, Windows™ 3.11, OS/2 Warp 3.0, and all appls listed to right:					
Warranty	**3 year** - carry in or EasyServ (optional onsite $40 yr)					

ThinkPad 755CSE / CE strengths:

- **DSP with audio, data/fax modem, telephony**
- **Infrared communication**
- **Color: 10.4 dual scan or 10.4 Black Matrix TFT**
- **Removable disk and diskette**
- **Liftable keyboard and TrackPoint III**
- **Upgrade to Pentium with L2 cache**

Memory upgraded via ① 1 open socket for IC memory card for 20 MB max or ② new DIMM technology for max of 40 MB with 4, 8, or 16 MB JEDEC 72 pin SO DIMMs on optional Memory Module Adapter.

ALL 755CSE / CE MODELS

***Liftable (pop-up) keyboard* to access and remove diskette drive, disk, battery, and memory**

Intelligent battery with a processor to allow accurate monitoring of battery condition and accurate fuel guage.

Integrated Mwave™ DSP provides:

① **Data modem function**
- V.22bis (2400 bps)
- V.32 (9600 bps)
- V.32bis (14.4 Kbps)

② **Fax modem function**
- G3 fax send/receive (14.4 Kbps)

③ **Audio function**
- Stereo waveform record and playback
- Qsound™ support (3-D effect)
- 32 voice MIDI wave table synthesizer
- SoundBlaster™ support
- Text to speech (via Monologue)

④ **Telephone function**
- Full telephone (can use opt headset)
- Telephone answering machine
- Full duplex speakerphone

➪ **Software upgradeable** (28.8 and DSVD)

PREINSTALLED APPLICATIONS

- IBM DOS 6.3
- Windows 3.11
- OS/2 Warp 3.0 (dual boot) w/ BonusPak
  - CompuServe Info Mgr™, IBM Works
  - Internet Connection, Person to Person
  - HyperACCESS Lite™, Video IN
  - FaxWorks™, MM Viewer™
- IBM PC Card Director™ for PCMCIA
- IBM ThinkPad Demo (except 340 MB mod)
- Online Users Guide
- ThinkPad features

1. Lotus® cc:Mail™, e-mail for Advantis® network
2. Lotus Organizer™ 1.12
3. Lotus ScreenCam™ 1.0
4. Triton CoSessionä Host
5. PRODIGY®; 6. America Online®
7. SofNet FaxWorks™ Voice™ 3.0
8. Video For Windows™ 1.1 Runtime
9. Monologue (text to speech)
10. Puma TranXit™ (infrared function)
11. Taxi™
12. AlphaNet™ FollowFax™
13. SEDONA™ REPRINT™
14. COMPEL™ Personal Edition
15. Audiofile® TalkWorks™
16. Reuters℠ Money® Network
17. Mwave Sampler (CD)

The removed diskette drive can be used externally via the optional 'FDD External Kit' (includes cable and enclosure) to the Port Replicator Model I and II and Dock I and II.

Diskette drive can be removed (from UltraBay™)
① to reduce weight
② to insert cellular modem (CDPD)
③ to insert TV Tuner (for on screen TV and VCR playback)
④ to insert PCMCIA Cartridge (Type I, II, or III)
⑤ to insert 2.88 MB diskette
⑥ to add other third party options

Options for 755CSE / CE:

- NiMH Battery Pack II	85G1513
- 760 NiMH Battery (black)	41H9720
- TV Tuner (CE only)	66G3689
- FDD External Attachment Kit	66G3618
- Memory Module Adapter	84G2151
- 4 MB SO DIMM parity	92G7253
- 8 MB SO DIMM parity	92G7255
- 16 MB SO DIMM parity	92G7257

Compatible in all ThinkPad 360 family, 750 family, 755 family:

- Disks:	170 MB IDE	66G2847/9
	250 MB IDE	84G2391
	340 MB IDE	66G2849
	540 MB IDE	84G2150
	810 MB IDE	84G8250
- Dock I	(1 slot / 1 bay)	3545001
- Dock II	(2 slot / 2 bay)	3546001
- Port Replicator I (w/ PCMCIA)		66G3510
- Port Replicator II		66G3520
- 1.44 MB diskette		std in newer
- 2.88 MB diskette		66G0108

Options for 755CSE / CE:

- PCMCIA Cartridge	84G1301
- Pentium/L2 upgrade	**85G8609**

ThinkPad IC DRAM memory for 700, 720, 750, 755 families are all compatible

FEATURES OF 755CSE / CE MODELS

Discharge battery via mouse click
Battery life indicator
Non-disruptive battery exchange
Standby, suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in molded indention
Personalization screen at startup
SelectaSystem™ capability to select operating system choice
3 year warranty
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, and electronic support
IBM or dealer warranty/service
Online Housecall (remote diagnostics)
30 day money back guarantee

✂ Withdrawn from marketing effective December 1995

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business days average turnaround). Overnight repair option in US available for $99.
❑ = Upgradeable ❍ = Removable ↘ Price decrease effective June 20, 1995

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No warranties are expressed or implied in this summary
(755E) Compiled by Roger Dodson, IBM. December 1995

IBM ThinkPad 755CX - withdrawn

IBM® ThinkPad®:	✂ 755CX No DSP - 640 x 480	✂ 755CX DSP - 800 x 600
Processor type	**Pentium® 75/50 MHz**	
Coprocessor socket	N/A (standard in Pentium)	
L2 cache	256 KB / write-through / direct mapped / 12 ns / soldered	
Removable diskette	Internal 3.5" 1.44 MB ❍ / supports internal 2.88 MB diskette Supports PCMCIA Cartridge or CDPD in diskette bay	
Removable CD-ROM	Not supported (Diskette bay is called UltraBay™)	

Same as ThinkPad 755CE except includes:

- **Pentium 75/50 MHz**
- **256 KB L2 cache**
- **SVGA 800 x 600 LCD (on some models)**
- **Non-parity memory**
- **Lithium ion battery (on two models)**
- **DOS 7.0** (instead of DOS 6.3) **and Mind Path Pro**

Price (retail USD)	$ 3,749 ➘	$ 4,149 ➘	$ 4,849	$ 5,249	$ 5,699
Type - model	9545-SBJ	9545-SBK	9545-HBD	9545-HBE	9545-HBL
Part number	84G6381	85G1669	85G8555	85G8524	85G7518
Removable disk - size	**540 MB** ❑ ❍	**810 MB** ❑ ❍	**540 MB** ❑	**810 MB** ❑	**1.2 GB** ❍
Removable disk - spd	14 ms ❍	14 ms ❍	14 ms ❍	14 ms ❍	12 ms
Avail / withdrawn date	Jun 95 / Jun 96	Jun 95 / Jun 96	May 1995	May 1995	Sept 95 / Jun 96
Display - type	**VGA color / 640 x 480**		**SVGA color / 800 x 600**		
Display - colors	**65,536 simultaneous colors**				
Display - techology	**Black Matrix TFT - active matrix**				
Display - diagonal size	**10.4 inch** / 100 to 1 contrast ratio		**10.4 inch** / 110 to 1 contrast ratio		
Graphics - controller	WD90C24A (Rev C) with 1 MB DRAM				
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 w/ 256 colors (up to 75 Hz)				
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt				
Memory - std / max	8 MB / 40 MB 70 ns / non-parity / 5 volt				
Mem - sockets empty	1 socket (parity memory supported but w/o parity)				
Mem-options available	2, 4, 8, 16, 32 MB ICs or 4, 8,16 MB DIMMs that work on optional Memory Module Adapter				
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)				
Keyboard slope	Yes (legs pop out)				
Mouse/pointing	**TrackPoint III**™				
Ext keyboard support	Yes (with option cable)				
Dimensions	11.7 x 8.3 x 1.96" (190 cubic inches)				
\Weight (with battery)	6.1 pounds				
Battery - type	**NiMH /** intelligent		**Lithium ion /** intelligent		
Battery - life	2.6 to 8 hours	Supports optional	3 to 9 hours	Supports optional	
Charge time - on / off	1.7 hrs / 1.2 hrs	Li-Ion battery	2-2.5 hrs / 1.5-2 hrs	NiMH battery	
Architecture	AT bus (ISA)				
Docking Station	Dock I and II				
Port replicator	Port Replicator I and II				
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III				
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)				
Other features	APM-aware BIOS / Universal AC adapter (35 watts) / Selectable boot				
Video function	None		None		
DSP function	None (but can order DSP upgrade)		**Mwave MDSP2780 DSP with modem, fax, audio, telephony function**		
Data/fax modem	None (but can order DSP upgrade)		**Data/fax modem function via DSP**		
Audio support	None (but can order DSP upgrade)		**16 bit audio chip on planar with Mwave DSP** **Internal speaker (with dial volume control) and internal microphone**		
Audio in/out jacks	None (but can order DSP upgrade)		Input jack supports microphone / Output jack supports headphone/speakers		
Telephone	None (but can order DSP upgrade)		Telephone (w/ opt headset) / answering machine / full duplex speakerphone		
Infrared ports	**Infrared ports (front and back) / IRDA compatible / up to 115 kbs**				
Security	Power-on password / Hard disk password / Supervisor password / Hardware security loop / Keyboard lock / locking device keyhole (Kensington™ lock) / PCMCIA card lock				
Preinstalled software	IBM DOS 7.0, Windows™ 3.11, OS/2 Warp Version 3 and all appls listed to right:				
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Service) or carry-in				

Memory upgraded via ① 1 open socket for IC memory card for 40 MB max or ② new DIMM technology for max of 40 MB with 4, 8, or 16 MB JEDEC 72 pin SO DIMMs on optional Memory Module Adapter.

Intelligent battery with a processor to allow accurate monitoring of battery condition and accurate fuel guage.

PREINSTALLED APPLICATIONS

- IBM DOS 7.0 *SelectaSystem™*
- Windows 3.11
- OS/2 Warp 3.0 (dual boot) w/ selected BonusPak
- IBM PC Card Directorä for PCMCIA
- IBM ThinkPad Demo
- Online Users Guide
- ThinkPad features; Diskette Factory

1. Lotus® cc:Mail™, e-mail for Global® network
2. Lotus Organizer™ 1.12
3. Lotus ScreenCam™ 1.0
4. Official Airline Guide® Flight Disk® 1.0
5. Triton CoSession™ Host
6. PRODIGY®; 7. America Online®
8. SofNet FaxWorks™ Voice™ 3.0
9. Video For Windows™ 1.1 Runtime
10. Monologue (text to speech)
11. Puma TranXit™ (infrared function)
12. Taxi™
13. Second Nature Screen Saver
14. Farallon® Replica™
15. AlphaNet™ FollowFax™
16. SEDONA™ REPRINT™
17. COMPEL™ Personal Edition
18. Audiofile® TalkWorks™
19. Reuters℠ Money® Network
20. Mind Path™ Presentation F/X Pro

Upgradeable or Integrated Mwave™ DSP provides:

① **Data modem function**
- V.22bis (2400 bps)
- V.32 (9600 bps)
- V.32bis (14.4 Kbps)

② **Fax modem function**
- G3 fax send/receive (14.4 Kbps)

③ **Audio function**
- Stereo waveform record and playback
- Qsound™ support (3-D effect)
- 32 voice MIDI wave table synthesizer
- SoundBlaster™ support
- Text to speech (via Monologue)

④ **Telephone function**
- Full telephone (can use opt headset)
- Telephone answering machine
- Full duplex speakerphone

➪ **Software upgradeable** (to 28.8 and DSVD)

Easy-Setup is entered by holding F1 when turning on.

Compatible in all ThinkPad 360 family, 750 family, 755 family:

- Disks:	170 MB IDE	66G2847
	250 MB IDE	84G2391
	340 MB IDE	66G2849
	540 MB IDE	84G2150
	810 MB IDE	84G8250
	1.2 GB IDE	85G8562
- Dock I	(1 slot / 1 bay)	3545001
- Dock II	(2 slot / 2 bay)	3546001
- Port Replicator I (w/ PCMCIA)		66G3510
- Port Replicator II		66G3520
- 1.44 MB diskette		std in newer
- 2.88 MB diskette		66G0108

Options for 755CX:

- PCMCIA Cartridge	84G1301
- FDD External Attachment Kit	66G3618
- CDPD Communications Module	71G2560
- Mwave DSP Upgrade	2420801

ThinkPad IC DRAM memory for 700, 720, 750, 755 families are all compatible

ThinkPad 755CX supported batteries:

- NiMH Battery Pack II	85G1513
- Lithium Ion	85G8561
- Li-Ion Battery Pack II	29H9329
- Travel Quick Charger (for NiMH or Li-Ion)	85G1522

FEATURES OF 755CX MODELS

Discharge battery via mouse click
Battery life indicator
Non-disruptive battery exchange
Standby, suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in molded indention
Personalization screen at startup
3 year warranty
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, and electronic support
IBM or dealer warranty/service
Online Housecall (remote diagnostics)
30 day money back guarantee

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business days average turnaround). Overnight repair option in US available for $99.
❑ = Upgradeable ❍ = Removable ➘ Price decrease effective November 7, 1995
✂ = Withdrawn from marketing effective June 1996

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(755CX) Compiled by Roger Dodson, IBM. June 1996

IBM ThinkPad 755CV - withdrawn

IBM® ThinkPad®:	✂ 755CV Projector LCD - DX4	✂ 755CV Projector LCD - Pentium
Processor type	**IntelDX4™ 100/33 MHz**	**Pentium® 75/50 MHz**
L2 cache	None	256 KB write-through / 12ns
Processor / L2 upgrade	to Pentium 75/50 MHz which includes 256 KB L2 cache	direct mapped /soldered 64 bit to L2 / 32 bit to mem
Removable diskette	Internal 3.5" 1.44 MB m / supports internal 2.88 MB diskette Supports PCMCIA Cartridge, TV Tuner, or CDPD in diskette bay	
Removable CD-ROM	Not supported (Diskette bay is called UltraBay™)	
Price		
Type-model / part	9545-8BJ	9545-EBK /9545EBK / 9545-EBL /9545EBL
Removable disk - size	**540 MB** ❑	**810 MB** ❑ / **1.2 GB** ❑
Removable disk - spd	14 ms ❍	14 ms ❍ / 12 ms ❍
Avail / withdrawn date	May 95 / Jun 96	Sept 95 / Oct 96 / Sept 95 / Oct 96
Display - type	**VGA color** / 640 x 480	
Display - colors	**65,536 simultaneous colors**	
Display - techology	**TFT - active matrix**	
Display - diagonal size	**10.4 inch** / 100 to 1 contrast ratio	
Display - projector	**Overhead projector LCD by removing back (includes Stand and Strap)**	
Graphics - controller	WD90C24A2 with 1 MB DRAM	
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 w/ 256 colors (up to 75 Hz)	
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt	
Memory - std / max	8 MB / 40 MB 70 ns / parity	non-parity
Mem - sockets empty	1 socket / 5 volt	
Mem-options available	2, 4, 8, 16, 32 MB ICs or 4, 8, 16 MB DIMMs that work on optional Memory Module Adapter	
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)	
Keyboard slope	Yes (legs pop out)	Includes Mind Path™ Remote Control IR55 F/X
Mouse/pointing	**TrackPoint III**™	
Ext keyboard support	Yes (with option cable)	
Dimensions	11.7 x 8.3 x 1.96" (190 cubic inches)	
Color	Black	
Weight (with battery)	6.6 pounds	
Battery - type	Nickel hydride (NiMH) / intelligent	
Battery - life	3.3 to 10 hours	2.6 to 8 hours
Charge time - on / off	1.7 hrs / 1.2 hrs	**all support optional Lithium Ion** (see below)
Architecture	AT bus (ISA)	
Docking Station	Dock I and II	
Port replicator	Port Replicator I and II	
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III	
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	
Other features	APM-aware BIOS / Universal AC adapter (35 watts) / Selectable boot	
DSP function	**Mwave MDSP2780 DSP with modem, fax, audio, telephony function**	
Data/fax modem	**Data/fax modem function via DSP**	
Audio support	**16 bit audio chip on planar with Mwave DSP** **Internal speaker (with dial volume control) and internal microphone**	
Audio in/out jacks	Input jack / output jack	
Telephone	Telephone (w/ opt headset) / answering machine / full duplex speakerphone	
Infrared ports	**Infrared ports (front and back) / IRDA compatible / up to 115 kbs**	
Security	Power-on password / Hard disk password / Supervisor password / Hardware security loop / Keyboard lock / locking device keyhole (Kensington™ MicroSaver™ cable lock) / PCMCIA card lock	
Preinstalled software	IBM DOS 7.0, Windows™ 3.11,OS/2 Warp Ver 3, and all appls listed to right:	
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in	

Same as ThinkPad 755CE except includes:

- **Overhead projector LCD**
- **Supports optional lithium ion battery**
- **Mind Pathä Remote Control IR55 F/X and software**

Integrated Mwave™ DSP provides:

① **Data modem function**
- V.22bis (2400 bps)
- V.32 (9600 bps)
- V.32bis (14.4 Kbps)

② **Fax modem function**
- G3 fax send/receive (14.4 Kbps)

③ **Audio function**
- Stereo waveform record and playback
- Qsound™ support (3-D effect)
- 32 voice MIDI wave table synthesizer
- SoundBlaster™ support
- Text to speech (via Monologue)

④ **Telephone function**
- Full telephone (can use opt headset)
- Telephone answering machine
- Full duplex speakerphone

➪ **Software upgradeable** (to 28.8 & DSVD)

Memory upgraded via ① 1 open socket for IC memory card for 40 MB max or ② new DIMM technology for max of 40 MB with 4, 8, or 16 MB JEDEC 72 pin SO DIMMs on optional Memory Module Adapter.

***Liftable (pop-up) keyboard* to access and remove diskette drive, disk, battery, and memory**

Intelligent battery with a processor to allow accurate monitoring of battery condition and accurate fuel guage.

PREINSTALLED APPLICATIONS

- IBM DOS 7.0 *SelectaSystem™*
- Windows 3.11
- OS/2 Warp 3.0 (dual boot) w/ selected BonusPak
- IBM PC Card Director™ for PCMCIA
- IBM ThinkPad Demo
- Online Users Guide
- ThinkPad Features Program
- Diskette Factory

1. Lotus® cc:Mail™, e-mail for Global® network
2. Lotus Organizer™ 1.12
3. Lotus ScreenCam™ 1.0
4. Triton CoSession™ Host
5. PRODIGY®; 6. America Online®
7. SofNet FaxWorks™ Voice™ 3.0
8. Video For Windows™ 1.1 Runtime
9. Monologue (text to speech)
10. Puma TranXit™ (infrared function)
11. Taxi™
12. AlphaNet™ FollowFax™
13. SEDONA™ REPRINT™
14. COMPEL™ Personal Edition
15. Audiofile® TalkWorks™
16. Reuters℠ Money® Network
17. Asymetrix 3D F/X
18. Mind Path™ Presentation F/X Pro

Ships standard w/ **Mind Path™ Remote Control**
- Wireless, hand held remote control
- Uses infrared to communicate up to 45 feet away
- Includes 5 buttons for instant effects
- Permits full control of mouse

Includes **Mind Path Presentation F/X software**
- Allows 20 real-time special effects
- Includes zoom, telestrator, spotlight, magnify, and others
- Works with all Windows applications

Easy-Setup by holding F1 when turning on

ThinkPad 755CV supported batteries:

- NiMH Battery Pack II	85G1513
- Lithium Ion	85G8561
- Li-Ion Battery Pack II (Pentium only)	29H9329

ThinkPad IC DRAM memory for 700, 720, 750, 755 families are all compatible.

Compatible in all ThinkPad 360 family, 750 family, 755 family:

- Disks:	170 MB IDE	66G2847/9
	250 MB IDE	84G2391
	340 MB IDE	66G2849
	540 MB IDE	84G2150
	810 MB IDE	84G8250
	1.2 GB IDE	85G8562
- Dock I	(1 slot / 1 bay)	3545001
- Dock II	(2 slot / 2 bay)	3546001
- Port Replicator I (w/ PCMCIA)		66G3510
- Port Replicator II		66G3520
- 1.44 MB diskette		std in newer
- 2.88 MB diskette		66G0108

Options for 755CV:

- PCMCIA Cartridge	84G1301
- TV Tuner	66G3689
- FDD External Attachment Kit	66G3618
- **Pentium/L2 upgrade** (DX4 mod)	**85G8609**
- Cooling Fan Kit (for overhead)	29H8000

FEATURES OF 755CV MODELS

Discharge battery via mouse click
Battery life indicator
Non-disruptive battery exchange
Standby, suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in molded indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http:\\www.pc.ibm.com) support
IBM or dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business days average turnaround). Overnight repair option in US available for $99.
❑ = Upgradeable ❍ = Removable; ✂ = Withdrawn from marketing

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No warranties are expressed or implied in this summary
(755CV) Compiled by Roger Dodson, IBM. October 1996

IBM ThinkPad 755CD - withdrawn

IBM® ThinkPad®:	✂ 755CD TFT color - DX4	✂ 755CD TFT color - Pentium
Processor type	**IntelDX4™ 100/33 MHz**	**Pentium® 75/50 MHz**
L2 cache	None	256 KB write-through / 12 ns
Processor / L2 upgrade	to Pentium 75/50 MHz which includes 256 KB L2 cache	direct mapped / soldered 64 bit to L2 / 32 bit to mem
Removable diskette	Internal 3.5" 1.44 MB ❍ / supports internal 2.88 MB diskette Supports PCMCIA Cartridge in diskette bay	
Removable CD-ROM	**5.25" CD-ROM ❍ / double speed / multi-session / XA / front loaded / IDE**	

Price				
Type - model	9545-9BD	9545-9BE	9545-FBK	9545-FBL
Removable disk - size	**540 MB** / 14 ms	**810 MB** / 14 ms	**810 MB** / 14 ms	**1.2 GB** / 12 ms
Avail / withdrawn date	Oct 1994 / Jun 96	Oct 94 / Jun 96	Sept 95 / Jun 96	Sept 95 / Jun 96

Display - type	**VGA color** / 640 x 480 **/ 65,536 simultaneous colors**
Display - techology	**Black Matrix TFT - active matrix**
Display - diagonal size	10.4 inch / 100 to 1 contrast ratio
Graphics - controller	WD90C24A2 with 1 MB DRAM
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 w/ 256 colors (up to 75 Hz)
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt
Memory - std / max	8 MB / 40 MB 70 ns / parity | non-parity
Mem - sockets empty	1 socket / 5 volt
Mem-options available	2, 4, 8, 16, 32 MB ICs or 4, 8, 16 MB DIMMs that work on optional Memory Module Adapter
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	Yes (legs pop out)
Mouse/pointing	**TrackPoint III**™
Ext keyboard support	Yes (with option cable)
Dimensions	11.7 x 8.3 x 2.2" (214 cubic inches)
Color	Black
Weight(w/batt/CD-ROM)	7.3 pounds

Memory upgraded via ① 1 open socket for IC memory card for 20 MB max or ② new DIMM technology for max of 40 MB with 4, 8, or 16 MB JEDEC 72 pin SO DIMMs on optional Memory Module Adapter.

Battery - type	Nickel hydride (NiMH) / intelligent	Nickel hydride (NiMH) / intelligent
Battery - life	3 to 9 hours	2.5 to 8 hours **Supports**
Charge time - on / off	1.7 hrs / 1.2 hrs	1.7 hrs / 1.2 hrs **optional Li-Ion**

Architecture	AT bus (ISA)
Docking Station	Dock I and II
Port replicator	Port Replicator I and II
PCMCIA™ 2.1 slots	**2 Type I or 2 Type II or 1 Type III**
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional); non-DMA
Other features	APM-aware BIOS / Universal AC adapter (35 watts) / Selectable boot
Video function (below)	**Daughtercard with video acceleration, composite in/out, game port**
DSP function	**Mwave MDSP2780 DSP with modem, fax, audio, telephony function**
Data/fax modem	**Data/fax modem function via DSP**
Audio support	**16 bit audio chip on planar with Mwave DSP** **Int stereo speakers .5 watts (with dial volume control) / int microphone**
Audio in/out jacks	Input jack / output jack
Telephone	Telephone / answering machine / full duplex speakerphone
Infrared ports	**Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs**
Security	Power-on password / Hard disk password / Supervisor password / Hardware security loop / Keyboard lock / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / PCMCIA card lock
Preinstalled software	IBM DOS, Windows™ 3.11, OS/2 Warp 3.0, and all appls listed to right:
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Service) or carry-in

ThinkPad 755CD strengths over 755CE / CSE:

- **Mobile multimedia - exceeds MPC2 standard**
- **Removable, double speed, 5.25" CD-ROM**
- **Video card (acceleration, composite in/out)**
- **Joystick/MIDI port**
- **Stereo speakers**

The left bay (UltraBay™) supports either the standard diskette drive or standard CD-ROM. CD-ROM ships in this bay from factory.

Liftable (pop-up) keyboard to access and remove CD-ROM, diskette drive, disk, battery, and memory

Integrated Mwave™ DSP provides:

① **Data modem function**
- V.22bis, V.32, V.32bis (14.4 Kbps)

② **Fax modem function**
- G3 fax send/receive (14.4 Kbps)

③ **Audio function**
- Stereo waveform record and playback
- Qsound support (3-D effect)
- 32 voice MIDI wave table synthesizer
- SoundBlaster™ support;Text to speech

④ **Telephone function**
- Full telephone (can use opt headset)
- Telephone answering machine
- Full duplex speakerphone

➪ **Software upgradeable** (to 28.8 & DSVD)

PREINSTALLED APPLICATIONS

- IBM DOS 6.3 (DOS 7.0 on Pentium mod)
- Windows 3.11 (dual boot)
- OS/2 Warp 3.0 w/ selected BonusPak
- IBM PC Card Director™ for PCMCIA
- IBM ThinkPad Demo
- Online Users Guide
- ThinkPad Features

1. Lotus® cc:Mail™, e-mail for Advantis® network; 2. Lotus Organizer™ 1.12
3. Lotus ScreenCam™ 1.0
4. Triton CoSession™ Host
5. PRODIGY®; 6. America Online®
7. SofNet FaxWorks™ Voice™ 3.0
8. Video For Windows™ 1.1 Runtime
9. Monologue (text to speech)
10. Puma TranXit™; 11. Taxi™
12. AlphaNet™ FollowFax™
13. REPRINT™; 14. COMPEL™ PE
15. TalkWorks™; 16. Reuters℠ Money® Net
17. Asymetrix® Digital video Producer™
18. Mind Path™ Presentation F/X Pro
19. **CD-ROM Catalog/Sampler**

Enhanced Video Card in 755CD provides:

- **Acceleration** of 'Video for Windows'™ motion video with scaling and interpolation of image. Video may be scaled up to full screen without frame rate degredation.
- **Composite in** and S-Video in for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay (view video on LCD like with a TV, VCR, or camcorder without capturing it to disk). So can hook up a TV or VCR and run it on the ThinkPad screen.
- **Composite out** and S-Video out to TV meaning use a TV as if an external display (connect to video out port; NTSC or PAL); or record on a VCR the contents of the 755CD screen.
- **Mini game port** for MIDI or joystick (includes MIDI/joystick cable)
- Includes a video in and video out port (includes two video in/out cables)
- Use software called Digital Video Producer™

Compatible in all ThinkPad 360 family, 750 family, 755 family:

- Disks:	170 MB IDE	66G2847/9
	250 MB IDE	84G2391
	340 MB IDE	66G2849
	540 MB IDE	84G2150
	810 MB IDE	84G8250
	1.2 GB IDE	85G8562
- Dock I	(1 slot / 1 bay)	3545001
- Dock II	(2 slot / 2 bay)	3546001
- Port Replicator I (w/ PCMCIA)		66G3510
- Port Replicator II		66G3520
- 1.44 MB diskette		std in newer
- 2.88 MB diskette		66G0108

Options for 755CD:

- PCMCIA Cartridge	84G1301
- NiMH Battery Pack II	85G1513
- Lithium Ion Battery (Pentium only)	85G8561
- Li-Ion Batt Pack II (Pentium only)	29H9329
- CDPD Mobile Module	71G2560
- FDD External Attachment Kit	66G3618
- **Pentium/L2 upgrade** (DX4 mod)	**29H8755**

To use diskette and CD-ROM simultaneously, need FDD External Kit and one of four docking solutions

ThinkPad IC DRAM memory for 700, 720, 750, 755 families are all compatible

FEATURES OF 755CD MODELS

Discharge battery via mouse click
Battery life indicator
Non-disruptive battery exchange
Standby, suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in molded indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http:\\www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.

❑ = Upgradeable; ❍ = Removable; ✂ = Withdrawn from marketing

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No warranties are expressed or implied in this summary

(755CD) Compiled by Roger Dodson, IBM. June 1996

IBM ThinkPad 755CDV - withdrawn

IBM® ThinkPad®:	✂ 755CDV TFT color - projector LCD - DX4	✂ 755CDV TFT color - projector LCD - Pentium
Processor type	**IntelDX4™ 100/33 MHz**	**Pentium® 75/50 MHz**
L2 cache	None	256 KB write-through / 12ns
Processor / L2 upgrade	to Pentium 75/50 MHz which includes 256 KB L2 cache	direct mapped / soldered 64 bit to L2 / 32 bit to mem
Removable diskette	Internal 3.5" 1.44 MB ❍ / supports internal 2.88 MB diskette Supports PCMCIA Cartridge in diskette bay	
Removable CD-ROM	**5.25" CD-ROM ❍ / double speed / multi-session and XA / front loaded**	

Price				
Type - model / part	9545-ABJ	9545-ABK	9545--GBK	9545-GBL
Removable disk - size	**540 MB** / 14 ms	**810 MB** / 14	**810 MB** / 14 ms	**1.2 GB** / 12ms
Avail / withdrawn date	June 95 / Jun 96	Jun95 / Jun96	Sept 95 / Oct 96	Sept 95 / Oct 96

Display - type	**VGA color** / 640 x 480 **/ 65,536 simultaneous colors**
Display - techology	**TFT - active matrix**
Display - diagonal size	10.4 inch / 100 to 1 contrast ratio
Display - projector	**Overhead projector LCD by removing back (includes Stand and Strap)**
Graphics - controller	WD90C24A2 Rev D with 1 MB DRAM
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 w/ 256 colors (up to 75 Hz)
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt
Memory - std / max	8 MB / 40 MB 70 ns / parity / non-parity
Mem - sockets empty	1 socket / 5 volt
Mem-options available	2, 4, 8, 16, 32 MB ICs or 4, 8, 16 MB DIMMs that work on optional Memory Module Adapter

Memory upgraded via ① 1 open socket for IC memory card for 40 MB max or ② new DIMM technology for max of 36 MB with 4, 8, or 16 MB JEDEC 72 pin SO DIMMs on optional Memory Module Adapter.

Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	Yes (legs pop out) **Includes Mind**
Mouse/pointing	**TrackPoint III**™ **Path Remote**
Ext keyboard support	Yes (with option cable) **Control IR55 F/X**
Dimensions	11.7 x 8.3 x 2.2" (213 cubic inches)
Color	Black
Weight (with battery)	7.45 pounds

Battery - type	Nickel hydride (NiMH) / smart		Nickel hydride (NiMH) / smart	
Battery - life	3 to 9 hours	Supports opt	2.5 to 8 hours	Supports opt
Charge time - on / off	1.7 hrs / 1.2 hrs	Lithium ion	1.7 hrs / 1.2 hrs	Lithium ion

Architecture	AT bus (ISA)
Docking Station	Dock I and II
Port replicator	Port Replicator I and II
PCMCIA™ 2.1 slots	**2 Type I or 2 Type II or 1 Type III**
Serial / parallel ports	One 9 pin; 16550A / One (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter (35 watts) / Selectable boot

Easy-Setup is entered by holding F1 when turning on.

Video function (below)	**Daughtercard with video acceleration, composite in/out, game port**
DSP function	**Mwave MDSP2780 DSP with modem, fax, audio, telephony function**
Data/fax modem	**Data/fax modem function via DSP**
Audio support	**16 bit audio chip on planar with Mwave DSP** **Internal stereo speakers .5w (w/ dial volume control) and int microphone**
Audio in/out jacks	Input jack / output jack
Telephone	Telephone / answering machine / full duplex speakerphone
Infrared ports	**Infrared ports (front and back) / IRDA compatible / up to 115 kbs**
Security	Power-on password / Hard disk password / Supervisor password / Hardware security loop / Keyboard lock / Locking device keyhole (Kensington™ Microsaver cable lock) / PCMCIA card lock
Preinstalled software	IBM DOS 7.0, Windows™ 3.11, OS/2 Warp Version 3 and all appls listed to right:
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

Same features as ThinkPad 755CD except includes:

- ➪ **Overhead projector LCD**
- ➪ **Supports optional lithium ion battery**
- ➪ **Mind Path™ Remote Control IR55 F/X**

Integrated Mwave™ DSP provides:

① **Data modem function**
- V.22bis (2400 bps)
- V.32 (9600 bps)
- V.32bis (14.4 Kbps)

② **Fax modem function**
- G3 fax send/receive (14.4 Kbps)

③ **Audio function**
- Stereo waveform record and playback
- Qsound™ support (3-D effect)
- 32 voice MIDI wave table synthesizer
- SoundBlaster™ support; Text to speech

④ **Telephone function**
- Full telephone (can use opt headset)
- Telephone answering machine
- Full duplex speakerphone

➪ **Software upgradeable** (to 28.8 & DSVD)

PREINSTALLED APPLICATIONS

- IBM DOS 7.0 *SelectaSystem™*
- Windows 3.11
- OS/2 Warp 3.0 (dual boot) w/ selected BonusPak
- IBM PC Card Director™ for PCMCIA
- IBM ThinkPad Demo
- Online Users Guide
- ThinkPad Features; Diskette Factory

1. Lotus® cc:Mail™, e-mail for Global® network; 2. Lotus Organizer™ 1.12
3. Lotus ScreenCam™ 1.0
4. Triton CoSession™ Host
5. PRODIGY®; 6. America Online®
7. SofNet FaxWorks™ Voice™ 3.0
8. Video For Windows™ 1.1 Runtime
9. Monologue (text to speech)
10. Puma TranXit™; 11. Taxi™
12. AlphaNet™ FollowFax™
13. REPRINT™; 14. COMPEL™ PE
15. TalkWorks™; 16. Reuters℠ Money® Net
17. Asymetrix® Digital Video Producer™
18. Mind Path™ Presentation F/X Pro
19. **Asymetrix 3D F/X**
20. **CD-ROM Catalog/Sampler**

The left bay (UltraBay™) supports either the standard diskette drive or standard CD-ROM. CD-ROM ships in this bay from factory.

To use diskette and CD-ROM simultaneously, need FDD External Kit and one of four docking solutions

Liftable (pop-up) keyboard to access and remove CD-ROM, diskette drive, disk, battery, and memory
Exceeds MPC2 standard

Enhanced Video Card in 755CDV provides:

- **Acceleration** of 'Video for Windows'ä motion video with scaling and interpolation of image. Video may be scaled up to full screen without frame rate degredation.
- **Composite in** and S-Video in for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay (view video on LCD like with a TV, VCR, or camcorder without capturing it to disk). So can hook up a TV or VCR and run it on the ThinkPad screen.
- **Composite out** and S-Video out to TV meaning use a TV as if an external display (connect to video out port; NTSC or PAL); or record on a VCR the contents of the 755CD screen.
- **Mini game port** for MIDI or joystick (includes MIDI/joystick cable)
- Includes a video in and video out port (includes two video in/out cables)
- Use software called Digital Video Producerä

Compatible in all ThinkPad 360 family, 750 family, 755 family:

- Disks:	170 MB IDE	66G2847/9
	250 MB IDE	84G2391
	340 MB IDE	66G2849
	540 MB IDE	84G2150
	810 MB IDE	84G8250
	1.2 GB IDE	85G8562
- Dock I	(1 slot / 1 bay)	3545001
- Dock II	(2 slot / 2 bay)	3546001
- Port Replicator I (w/ PCMCIA)		66G3510
- Port Replicator II		66G3520
- 2.88 MB diskette		66G0108

Options for 755CDV:

- NiMH Battery Pack II	85G1513
- Lithium Ion battery	85G8561
- Li-Ion Batt Pack II (Pentium only)	29H9329
- CDPD Mobile Module	71G2560
- PCMCIA Cartridge	84G1301
- **Pentium/L2 upgrade** (DX4 mod)	**29H8755**
- Cooling Fan Kit (for overhead)	29H8000

ThinkPad IC DRAM memory for 700, 720, 750, 755 families are all compatible.

FEATURES OF 755CDV MODELS

Discharge battery via mouse click
Battery life indicator
Non-disruptive battery exchange
Standby, suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in molded indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business days average turnaround). Overnight repair option in US available for $99.

❑ = Upgradeable ❍ = Removable; ✂ = Withdrawn from marketing

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No warranties are expressed or implied in this summary
(755CDV) Compiled by Roger Dodson, IBM. October 1996

IBM ThinkPad 760L - withdrawn

IBM® ThinkPad®:	✂ 760L 10.4" TFT color		
Processor type	**Pentium®** (P54LM) / 64 bit to L2 cache / 32 bit to memory		
Processor speed	**90/60 MHz**		
Processor upgrade	to Pentium 120/60 MHz		
L2 cache	256 KB / write-through / direct mapped / 10 ns / synchronous / soldered		
Removable diskette	Internal 3.5" 1.44 MB ❍ / no rear connector for diskette drive		
Removable CD-ROM	None (diskette bay is called UltraBay™) - cannot install an int CD-ROM		
Price			Pallette of 24 systems
Type - model	9547-U01	9547-U0A	9547-U0R
Preload (see side)	SelectaSys	Windows 95	Blank
Part number	9547U01	9547U0A	9547U0R
Avail / withdrawn date	Feb 96 / Oct 96	Feb 96 / Oct 96	Feb 96 / Oct 96
Remv disk - size / ms	**810 MB** / 13 ms / EIDE❍		
Display - diagonal size	**10.4 inch**		
Display - type	**VGA color / 640 x 480 / 16.7 million simultaneous colors**		
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio		
Graphics - controller	Trident™ CYBER9320 with 1 MB DRAM		
Graphics - external	External SVGA to 1024 x 768 w/ 256 colors up to 75 Hz		
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD/CRT / 180 degree tilt		
Memory - std / max	**8 MB** / 64 MB 70 ns / non-parity / 3.3 volt / fast page		
Mem - upgrade	2 sockets for two JEDEC 88 pin EDO SO DIMMs of 8 or 16 MB (acts like fast page)		
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)		
Keyboard slope	**Automted tilt up keyboard** (5.5 degrees)		
Pointing / palm rest	**TrackPoint III™ / integrated palm rest**		
Ext keyboard support	Yes (with option cable)		
Dimensions (cubic in)	11.7 x 8.3 x 1.74" (169)		
Weight (with battery)	6.51 pounds		
Battery - type	NiMH / intelligent / *Optional Lithium Ion*		
Battery - life (1 batt)	3 hours		
Battery - life (2 batt)	6 hours		
Charge time - on / off	1.7 hrs / 1.2 hrs		
Architecture	ISA (EIDE, audio, PCMCIA, diskette, serial, parallel, 240 pin ext expansion) VL-Bus 2.0 / 32 bit / 33 MHz (graphics)		
Docking Station	Dock I and II		
Port replicator	Port Replicator I and II		
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III		
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	APM-aware BIOS / Universal AC adapter (35 watts) / Selectable boot		
Motion video accel	None		
MPEG decoder	None		
DSP function	None		
Data/fax modem	None		
Audio support	**16 bit audio chip / 18 voice MIDI FM synthesis / ESS1688** **Int stereo speakers / .5 watt / slide volume control / internal microphone**		
Audio in/out jacks	Input jack (3.5 mm) / output jack (3.5 mm)		
Infrared ports	**Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs**		
Telephone	**None**		
Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock		
Preinstalled software	Choice of two preloaded configurations (listed to right)		
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in		

***Liftable (pop-up) keyboard* to access and remove diskette drive, 1st/2nd disk, and 1st/2nd battery**

ThinkPad 760L strengths:

- **Automated tilt up keyboard / palm rest space**
- **UltraBay: 2nd disk, 2nd battery, diskette**
- **Two high speed infrared ports**
- **Integrated audio / speakers / microphone**
- **16.7 million simultaneous color LCD**

Differences between 760L and 760LD:

760L	760LD
No internal CD-ROM	Removable CD-ROM
1.74" height	1.96" height
6.5 lbs / 169 cu in	7.11 lbs / 190 cu in
Supports 12 mm disks	Supports 1.2 GB disks
2.16 GB max capacity	2.4 GB max capacity
No ext FDD port	Ext. FDD port on back
Price	Price

SELECTASYSTEM PRELOAD

- IBM DOS 7.0
- Windows 3.11
- OS/2 Warp 3.0 (dual boot) w/ selected BonusPak
- IBM PC Card Director™ 3.0
- Online Users Guide
- ThinkPad Features Program
- Diskette Factory

1. Triton CoSession™ Host
2. PRODIGY®
3. SofNet FaxWorks™
4. Video For Windows™ 1.1 Runtime
5. Puma TranXit™
6. CompuServ for Windows
7. NetFinity for Windows and OS/2

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features Program
- Diskette Factory

1. Triton CoSession™ Host
2. PRODIGY®
3. SofNet FaxWorks™
4. Puma TranXit™
5. Compuserv for Windows

9. NetFinity for Windows 95

The left bay (UltraBayä) supports:
① 2nd disk
② 2nd battery
③ std diskette drive
④ 2.88 MB diskette drive (option)
⑤ PCMCIA Cartridge (option)
⑥ IBM Wireless Modem for ARDIS (option)
⑦ IBM Wireless Modem for Cellular/CDPD (option)

Easy-Setup is entered by holding F1 when turning on.

All 760 systems support the NiMH or Li-Ion battery in both battery bay and UltraBay.

Maximum internal disk capacity on 760L is 2.16 GB with two 1.08 GB disks.

Compatible in ThinkPad 760 family:

- Disks: (360/750/755 IDE disks not supported)		
720 MB HDD II EIDE	12.5 mm	29H9383
810 MB HDD II EIDE	12.5 mm	29H9313
1.08 GB HDD II EIDE	12.5 mm	29H9319
1.2 GB HDD II (LD/CD only)	17 mm	29H9325
- Second HDD Adapter		29H9333
- Dock I (1 slot / 1 bay)		3545001
- Dock II (2 slot / 2 bay)		3546001
- Port Replicator I (w/ PCMCIA)		66G3510
- Port Replicator II		66G3520
- 2.88 MB diskette		66G0108
- PCMCIA Cartridge		84G1301
- 760 NiMH Battery (black)		**41H9720**
- Li-Ion Battery Pack II (gray)		**29H9329**
- Travel Quick Charger		85G1522
- FDD External Attachment Kit		66G3618
- Pentium 120/60 MHz upgrade		**29H9340**
- Car Battery Adapter		49G2167
- ThinkPad AC Adapter (50 watts)		66G3541
- 8 MB SO DIMM 3.3v non-parity EDO		92G7315
- 16 MB SO DIMM 3.3v non-parity EDO		92G7316
- ThinkPad headset		85G1301

FEATURES OF 760 MODELS

Product Map; **LCD indicator panel**
LCD of remaining battery life
LCD icons for two batteries
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
❍ = Removable

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No warranties are expressed or implied in this summary
(760L) Compiled by Roger Dodson, IBM. October 1996

IBM ThinkPad 760LD - withdrawn

IBM® ThinkPad®:	✂ 760LD 10.4" TFT color - CD-ROM		
Processor type	**Pentium® 90/60 MHz** (P54LM) / 64 bit to L2 cache / 32 bit to memory		
Processor upgrade	to Pentium 120/60 MHz		
L2 cache	256 KB / write-through / direct mapped / 10 ns / synchronous / soldered		
Removable diskette	3.5" 1.44 MB ❍ / use in UltraBay or attach externally to FDD attach port		
Removable CD-ROM	**5.25" CD-ROM ❍ / 4 x speed / multi-session / XA / play with eject button EIDE / PIO Mode 3 (ATAPI)**		
Price			Pallete of 24 systems
Type - model (part)	9547-U31(9547U31)	9547-U3A (9547U3A)	9547-U3R (9547U3R)
Preload (see side)	SelectaSystem	Windows 95	Blank
Avail / withdrawn date	Feb 96 / Oct 96	Feb 96 / Oct 96	Feb 96 / Oct 96
Remv disk - size / ms	**810 MB** / 12 ms / EIDE ❍ / PIO Mode 4		
Display - diagonal size	**10.4 inch**		
Display - type	**VGA color / 640 x 480 / 16.7 million simultaneous colors**		
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio		
Graphics - controller	Tridentä CYBER9320 with 1 MB DRAM		
Graphics - external	External SVGA to 1024 x 768 w/ 256 colors up to 75 Hz		
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt		
Memory - std / max	**8 MB** / 64 MB 70 ns / non-parity / 3.3 volt / fast page		
Memory - upgrade	2 sockets for two JEDEC 88 pin EDO SO DIMMs of 8 or 16 MB (acts like fast page)		
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)		
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)		
Pointing / palm rest	**TrackPoint III™ / integrated palm rest**		
Ext keyboard support	Yes (with option cable)		
Dimensions	11.7 x 8.3 x 1.96" (190 cubic inches)		
Weight (with CD-ROM)	7.11 pounds		
Battery - type	NiMH / intelligent	*Optional*	
Battery - life (1 batt)	3 hours	*Lithium Ion*	
Battery - life (2 batt)	6 hours		
Charge time - on / off	1.7 hrs / 1.2 hrs		
Architecture	ISA (EIDE, audio, PCMCIA, diskette, serial, parallel, ext expansion) VL-Bus 2.0 / 32 bit / 33 Mhz (graphics)		
Docking Station	Dock I and II		
Port replicator	Port Replicator I and II		
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III		
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	APM-aware BIOS / Universal adapter (40 watts) / Selectable boot		
Motion video accel	None		
MPEG decoder	None		
DSP function	None		
Data/fax modem	None		
Audio support	**16 bit audio chip / 18 voice MIDI FM synthesis / ESS1688** **Int stereo speakers / .5 watt / slide volume control / internal microphone**		
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm)		
Telephone	None		
Infrared ports	**Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs**		
Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock		
Preinstalled software	Choice of two preload configurations (listed to right)		
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in		

***Liftable (pop-up) keyboard* to access and remove CD-ROM, diskette drive, 1st/2nd disk, and 1st/2nd battery**

Exceeds MPC2 standard

ThinkPad 760LD strengths:

- **Removable, 4 x speed, 5.25" CD-ROM**
- **Automated tilt up keyboard / palm rest space**
- **UltraBay: 2nd disk, 2nd battery, diskette**
- **Two high speed infrared ports**
- **Integrated audio / speakers / microphone**
- **16.7 million simultaneous color LCD**

The left bay (UltraBay™) supports:
① 2nd disk
② 2nd battery
③ std diskette drive
④ std CD-ROM
⑤ 2.88 MB diskette (option)
⑥ PCMCIA Cartridge (option)
⑦ IBM Wireless Modem ARDIS (option)
⑧ IBM Wireless Modem for Cellular/ CDPD (option)

SELECTASYSTEM PRELOAD

- IBM DOS 7.0
- Windows 3.11
- OS/2 Warp 3.0 (dual boot) w/ selected BonusPak
- IBM PC Card Director™ 3.0
- Online Users Guide
- ThinkPad Features Program
- Diskette Factory

1. Triton CoSession™ Host
2. PRODIGY®
3. SofNet FaxWorks™
4. Video For Windows™ 1.1 Runtime
5. Puma TranXit™
6. CompuServ for Windows
7. NetFinity for Windows and OS/2

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features Program
- Diskette Factory

1. Triton CoSession™ Host
2. PRODIGY®
3. SofNet FaxWorks™
4. Puma TranXit™
5. Compuserv for Windows
9. NetFinity for Windows 95

Easy-Setup is entered by holding F1 when turning on.

Differences between 760L/LD and 760C/CD:

760L/LD	760C/CD
Pentium 90/60 MHz	Pentium 120/60 or 90/60
All 10.4" TFT	10.4" or 12.1" TFT
VGA 640 x 480 LCD	SVGA 800 x 600 LCD
16.7 mil colors on LCD	65,536 colors on LCD
None	760CD: Enh. Vid Card
None	760CD: MPEG decoder
None	Mwave DSP
None	28.8 modem / DSVD
18 voice FM synthesis	32 voice wavetable syn.
NiMH battery	Li-Ion battery
Type is 9547	Type is 9546

All 760 systems support the NiMH or Li-Ion battery in both battery bay and UltraBay.

Maximum internal disk capacity on 760LD is 2.4 GB with two 1.2 GB disks.

Compatible in ThinkPad 760 family:

- Disks: (360/750/755 IDE disks not supported)		
720 MB HDD II EIDE	12.5 mm	29H9383
810 MB HDD II EIDE	12.5 mm	29H9313
1.08 GB HDD II EIDE	12.5 mm	29H9319
1.2 GB HDD II (LD/CD only)	17 mm	29H9325
- Second HDD Adapter		29H9333
- Dock I (1 slot / 1 bay)		3545001
- Dock II (2 slot / 2 bay)		3546001
- Port Replicator I (w/ PCMCIA)		66G3510
- Port Replicator II		66G3520
- 2.88 MB diskette		66G0108
- PCMCIA Cartridge		84G1301
- 760 NiMH Battery (black)		**41H9720**
- Li-Ion Battery Pack II (gray)		**29H9329**
- Travel Quick Charger		85G1522
- FDD External Attachment Kit		66G3618
- Pentium 120/60 MHz upgrade		**29H9340**
- Car Battery Adapter		49G2167
- ThinkPad AC Adapter (50 watts)		66G3541
- 8 MB SO DIMM 3.3v non-parity EDO		92G7315
- 16 MB SO DIMM 3.3v non-parity EDO		92G7316
- ThinkPad headset		85G1301

FEATURES OF 760 MODELS

Product Map; **LCD indicator panel**
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
❍ = Removable

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No warranties are expressed or implied in this summary
(760LD) Compiled by Roger Dodson, IBM. October 1996

IBM ThinkPad 760C - withdrawn

IBM® ThinkPad®:	✂ **760C** 12.1" or 10.4" TFT color
Processor type	**Pentium®** (P54LM) / 64 bit to L2 cache / 32 bit to memory
Processor speed	**90/60 or 120/60 MHz** (see below)
Processor upgrade	to Pentium 120/60 MHz
L2 cache	256 KB / write-through / direct mapped / 10 ns / synchronous / soldered
Removable diskette	Internal 3.5" 1.44 MB ❍ (in UltraBay)
Removable CD-ROM	None (diskette bay is called UltraBay™) - cannot install an int CD-ROM

ThinkPad 760C strengths:

- **Tilt up keyboard and palm rest space**
- **Largest notebook display models -- 12.1 inch**
- **UltraBay: 2nd disk, 2nd battery, diskette**
- **Integrated 28.8 Kbps modem, audio, telephony**
- **Two high speed infrared ports**

Price								
Type - model **all 9546**	U21	U2A	U22	U2B	U27	U2H	U28	U2J
Preload (see side)	SelectaSys	Win 95	SelectaSys	Win 95	SelectaSys	Win 95	SelctaSys	Win 95
Pentium speed	**90/60 MHz**		**90/60 MHz**		**120/60 MHz**		**120/60 MHz**	
Remv disk - size / ms	**720 MB** / 13 ms / EIDE❍		**720 MB** / 13 ms / EIDE❍		**720 MB** / 13 ms / EIDE❍		**1.08 GB** / 13 ms / EIDE❍	
Avail / withdrawn date	Oct 1995 / Oct 1996		Oct 1995 / Oct 1996		Nov 1995 / Oct 1996		Jan 1996 / Oct 1996	
Display - diagonal size	**12.1 inch**		**10.4 inch**		**12.1 inch**		**12.1 inch**	

Display - type	**SVGA color / 640 x 480 or 800 x 600 / 65,536 simultaneous colors**
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9320 with 1 MB DRAM
Graphics - external	External SVGA to 1024 x 768 w/ 256 colors up to 75 Hz
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt
Memory - std / max	**8 MB** / 64 MB 70 ns / non-parity / 3.3 volt / fast page
Mem - upgrade	2 sockets for two JEDEC 88 pin EDO SO DIMMs of 8 or 16 MB (acts like fast page)
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)
Pointing / palm rest	**TrackPoint III™ / integrated palm rest**
Ext keyboard support	Yes (with option cable)

***Liftable (pop-up) keyboard* to access and remove diskette drive, 1st/2nd disk, and 1st/2nd battery**

Dimensions (cubic in)	*10.4"models:* 11.7 x 8.3 x 1.74" (169)	*12.1"models:* 11.7 x 8.3 x 1.92" (186)
Weight (with battery)	*10.4"models:* 6.1 pounds	*12.1"models:* 6.8 pounds
Battery - type	*10.4"models:* Lithium Ion / intelligent	*12.1"models:* Lithium Ion / intelligent
Battery - life (1 batt)	*10.4"models:* 3.8 hours *Opt*	*12.1"models:* 3.5 hours *Opt*
Battery - life (2 batt)	*10.4"models:* 7.6 hours *NiMH*	*12.1"models:* 7 hours *NiMH*
Charge time - on / off	*10.4"models:* 2 to 3 hrs / 1.5 to 2.5 hrs	*12.1"models:* 2 to 3 hrs / 1.5 to 2.5 hrs

Architecture	ISA (EIDE, audio, PCMCIA, diskette, serial, parallel, 240 pin ext expansion) VL-Bus 2.0 / 32 bit / 33 MHz (graphics)
Docking Station	Dock I and II
Port replicator	Port Replicator I and II
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter 3 prong (35 watts) / Selectable boot
Motion video accel	None
MPEG decoder	None
DSP function	**Mwave MDSP2780 DSP with modem, fax, audio, telephony function**
Data/fax modem	**Data/fax modem function via DSP** (v.34 to 28.8 Kbps) / Mwave 2.0
Audio support	**16 bit audio chip on planar with Mwave DSP** **Int stereo speakers / .5 watt / slide volume control / internal microphone**
Audio in/out jacks	Input jack (3.5 mm) / output jack (3.5 mm)
Infrared ports	**Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs**
Telephone	Telephone / answering machine / full duplex speakerphone
Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock
Preinstalled software	Choice of two preloaded configurations (listed to right)
Warranty	**3 year -** ThinkPad EasyServ only (optional Overnight Repair Option) or carry-in

The left bay (UltraBay™) supports:
① 2nd disk (requires Second HDD Adapter)
② 2nd battery
③ std diskette drive
④ 2.88 MB diskette drive (option)
⑤ PCMCIA Cartridge (option)
⑥ IBM Wireless Modem for ARDIS (option)
⑦ IBM Wireless Modem for Cellular/CDPD (option)

Maximum internal disk capacity on 760C is 2.16 GB with two 1.08 GB disks.

Easy-Setup is entered by holding F1 when turning on.

Integrated Mwave™ DSP provides:
① **Data modem function** (to 28.8 Kbps)
② **Fax modem function** (to 14.4 Kbps)
③ **Audio function** (wave table synthesis)
④ **Telephone function**
- Full duplex speakerphone

⑤ **Digital Simultaneous Voice and Data**

Compatible in ThinkPad 760 family:

- Disks: (360/750/755 IDE disks not supported)		
720 MB HDD II EIDE	12.5 mm	29H9383
1.08 GB HDD II EIDE	12.5 mm	29H9319
1.2 GB HDD II (CD only)	17 mm	29H9325
- Second HDD Adapter		29H9333
- Dock I (1 slot / 1 bay)		3545001
- Dock II (2 slot / 2 bay)		3546001
- Port Replicator I (w/ PCMCIA)		66G3510
- Port Replicator II		66G3520
- 1.44 MB diskette		std in newer
- 2.88 MB diskette		66G0108
- PCMCIA Cartridge		84G1301
- 760 NiMH Battery (black)		**41H9720**
- Li-Ion Battery Pack II (gray)		**29H9329**
- Travel Quick Charger		85G1522
- FDD External Attachment Kit		66G3618
- Pentium 120/60 MHz upgrade		**29H9340**
- Car Battery Adapter		49G2167
- ThinkPad AC Adapter (50 watts)		66G3541
- 8 MB SO DIMM 3.3v non-parity EDO		92G7315
- 16 MB SO DIMM 3.3v non-parity EDO		92G7316
- ThinkPad headset		85G1301

SELECTASYSTEM PRELOAD

- IBM DOS 7.0
- Windows 3.11
- OS/2 Warp 3.0 (dual boot) with selected BonusPak
- IBM PC Card Director™ 3.0
- Online Users Guide
- ThinkPad Features Program
- Diskette Factory

1. Lotus® cc:Mail™, e-mail for IBM Global® network; 2. Lotus Organizer™
3. Lotus ScreenCam™
4. Triton CoSession™ Host; 5. PRODIGY®
6. SofNet FaxWorks™ Voice™
7. Video For Windows™ 1.1 Runtime
8. Puma TranXit™ 9. COMPEL™ PE
10. Mind Path Presentation F/X Pro
11. Internet for Windows
12. Compuserv for Win; 13. WIN32s Runtime
14. NetFinity for Windows and OS/2

- Complimentary Applications CD-ROM
- Lotus SmartSuite 4.0 CD-ROM

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features Program
- Diskette Factory

1. Lotus® cc:Mail™, e-mail for IBM Global® network; 2. Lotus Organizer™
3. Lotus ScreenCam™
4. Triton CoSession™ Host; 5. PRODIGY®
6. SofNet FaxWorks™ Voice™
7. Puma TranXit™
8. Compuserv for Windows
9. Mind Path Presentation F/X Pro
10. COMPEL Personal Edition

- Lotus SmartSuite 96 CD-ROM

FEATURES OF 760 MODELS

Product Map; **LCD indicator panel**
LCD of remaining battery life
LCD icons for two batteries
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
❍ = Removable

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(760C) Compiled by Roger Dodson, IBM. October 1996

IBM ThinkPad 760CD - withdrawn

IBM® ThinkPad®:	✂ **760CD** 12.1" TFT color - CD-ROM - Enhanced Video - MPEG
Processor type	**Pentium® 90/60 or 120/60** (P54LM) / 64 bit to L2 cache / 32 bit to mem
Processor upgrade	to Pentium 120/60 MHz from 90/60
L2 cache	256 KB / write-through / direct mapped / 10 ns / synchronous / soldered
Removable diskette	3.5" 1.44 MB ❍ / use in UltraBay or attach externally
Removable CD-ROM	**5.25" CD-ROM ❍ / 4 x speed / multi-session / XA / play with eject button EIDE / PIO Mode 3 (ATAPI)**

ThinkPad 760CD strengths over 760C:

- ➪ **Mobile multimedia - MPC2 compliant**
- ➪ **Removable, 4 x speed, 5.25" CD-ROM**
- ➪ **Video card (acceleration, composite in/out)**
- ➪ **Joystick/MIDI port**
- ➪ **MPEG-1 and MPEG-2 HHR decoder**

Price				
Type - model	9546-U11	9546-U1A	9546-U13	9546-U1C
Preload (see side)	SelectaSystem	Windows 95	SelectaSystem	Windows 95
Pentium speed	90/60 Mhz	90/60 MHz	120/60 MHz	120/60 MHz
Avail / withdrawn date	Oct 95 / Oct 96	Oct 95 / Oct 96	Jan 96 / Oct 96	Jan 96 / Oct 96
Remv disk - size / ms	**1.2 GB** / 12 ms / EIDE ❍ / supports two internal disks			

Display - diagonal size	**12.1 inch**
Display - type	**SVGA color / 640 x 480 or 800 x 600 / 65,536 simultaneous colors**
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9320 with 1 MB DRAM
Graphics - external	External SVGA to 1024 x 768 w/ 256 colors up to 75 Hz
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt
Memory - std / max	**8 MB** / 64 MB 70 ns / non-parity / 3.3 volt / fast page
Memory - upgrade	2 sockets for two JEDEC 88 pin EDO SO DIMMs of 8 or 16 MB (acts like fast page)
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)
Pointing / palm rest	**TrackPoint III**™ / integrated palm rest
Ext keyboard support	Yes (with option cable)
Dimensions	11.7 x 8.3 x 2.14" (208 cubic inches)
Weight (with CD-ROM)	7.47 pounds

The left bay (UltraBay™) supports:
① 2nd disk; ② 2nd battery
③ std diskette drive; ④ CD-ROM
⑤ 2.88 MB diskette (option)
⑥ PCMCIA Cartridge (option)
⑦ IBM Wireless Modem ARDIS (option)
⑧ IBM Wireless Modem for Cellular/ CDPD (option)

Battery - type	Lithium Ion / intelligent	*optional NiMH*
Battery - life (1 batt)	3.1 hours	
Battery - life (2 batt)	6.2 hours	
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs	

***Liftable (pop-up) keyboard* to access and remove CD-ROM, diskette drive, 1st/2nd disk, and 1st/2nd battery**

Architecture	ISA (EIDE, audio, PCMCIA, diskette, serial, parallel, ext expansion, MPEG) VL-Bus 2.0 / 32 bit / 33 Mhz (graphics, ACSII)
Docking Station	Dock I and II
Port replicator	Port Replicator I and II
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC Adapter 3 prong (35 watts) / Selectable boot

Easy-Setup is entered by holding F1 when turning on.

Motion video (below)	**Video acceleration / composite and S-Video in/out / game port** (ASCII V7325)
MPEG decoder	**MPEG-1 & MPEG-2 Half Horizontal Resolution (HHR) decoder** (MPEGCD1)
DSP function	**Mwave MDSP2780 DSP with modem, fax, audio, telephony function**
Data/fax modem	**Data/fax modem function via DSP** (v.34 to 28.8 Kbps) / Mwave 2.0
Audio support	**16 bit audio chip on planar with Mwave DSP** **Int stereo speakers / .5 watt / slide volume control / internal microphone**
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / Joystick/MIDI port (includes cable)
Telephone	Telephone / answering machine / full duplex speakerphone
Infrared ports	**Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs**
Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock
Preinstalled software	Choice of two preload configurations (listed to right)
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

Integrated Mwave™ DSP provides:

① **Data modem function**
- V.22bis, V.32, V.32bis, v.34 (28.8 Kbps)

② **Fax modem function**
- G3 fax send/receive (14.4 Kbps)

③ **Audio function**
- Stereo waveform record and playback
- Qsound support (3-D effect)
- 32 voice MIDI wave table synthesizer
- SoundBlaster™ support / text to speech
- MPEG audio decode

④ **Telephone function**
- Full telephone (can use opt headset)
- Telephone answering machine
- Full duplex speakerphone

⑤ **Digital Simultaneous Voice Data**

SELECTASYSTEM PRELOAD

- IBM DOS 7.0
- Windows 3.11
- OS/2 Warp 3.0 (dual boot) w/ selected BonusPak
- IBM PC Card Director™ 3.0
- Online Users Guide
- ThinkPad Features; Diskette Factory

1. Lotus® cc:Mail™, e-mail for IBM Global® network; 2. Lotus Organizer™
3. Lotus ScreenCam™
4. Triton CoSession™ Host; 5. PRODIGY®
6. SofNet FaxWorks™ Voice™
7. Video For Windows™ 1.1 Runtime
8. Puma TranXit™; 9. COMPEL™ PE
10. Mind Path Presentation F/X Pro
11. Internet for Windows
12. Compuserv for Win; 13. WIN32s Runtime
14. NetFinity for Windows and OS/2
15. Asymetrix® Digital Video Producer™

- Catalog/Sampler CD-ROM
- Complimentary Applications CD-ROM
- MPEG Sampler CD-ROM
- Lotus SmartSutie 4.0 CD-ROM

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features; Diskette Factory

1. Lotus® cc:Mail™, e-mail for IBM Global® network; 2. Lotus Organizer™
3. Lotus ScreenCam™
4. Triton CoSession™ Host; 5. PRODIGY®
6. SofNet FaxWorks™ Voice™
7. Puma TranXit™
8. Compuserv for Windows
9. Mind Path Presentation F/X Pro
10. COMPEL Personal Edition
11. Asymetrix® Digital Video Producer™

- Catalog/Sampler CD-ROM
- MPEG Sampler CD-ROM
- Lotus SmartSuite 96 CD-ROM

Enhanced Video Card in 760CD provides:

- **Acceleration** of 'Video for Windows'™ and MPEG motion video with scaling and interpolation of image. Video may be scaled up to full screen without frame rate degredation.
- **Composite in** and S-Video in for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay (view video on LCD like with a TV, VCR, or camcorder without capturing it to disk).
- **Composite out** and S-Video out to TV meaning use a TV as if an external display (connect to video out port; NTSC or PAL); or record on VCR the screen of 760CD.
- **Mini game port** for MIDI or joystick
- Includes a video in and video out ports (includes two video in/out cables)
- Use software called Digital Video Producer™
- **Plays back MPEG motion videos, CD-I movies, video CD's, and Karaoke MPEG video titles** (at 800 x 600)

Compatible in ThinkPad 760 family:

- Disks: (360/750/755 IDE disks not supported)		
720 MB HDD II EIDE	12.5 mm	29H9383
1.08 GB HDD II EIDE	12.5 mm	29H9319
1.2 GB HDD II (CD only)	17 mm	29H9325
- Second HDD Adapter		29H9333
- Dock I (1 slot / 1 bay)		3545001
- Dock II (2 slot / 2 bay)		3546001
- Port Replicator I (w/ PCMCIA)		66G3510
- Port Replicator II		66G3520
- 1.44 MB diskette		std in newer
- 2.88 MB diskette		66G0108
- PCMCIA Cartridge		84G1301
- 760 NiMH Battery (black)		**41H9720**
- Li-Ion Battery Pack II (gray)		**29H9329**
- Travel Quick Charger		85G1522
- FDD External Attachment Kit		66G3618
- Pentium 120/60 MHz upgrade		**29H9340**
- Car Battery Adapter		49G2167
- 8 MB SO DIMM 3.3v non-parity EDO		92G7315
- 16 MB SO DIMM 3.3v non-parity EDO		92G7316
- ThinkPad TrackPoint III Caps		39H1354
- ThinkPad headset		85G1301

FEATURES OF 760 MODELS

Product Map; **LCD indicator panel**
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
❍ = Removable; ✂ = Withdrawn from marketing

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No warranties are expressed or implied in this summary
(760CD) Compiled by Roger Dodson, IBM. October 1996

IBM ThinkPad 760EL - withdrawn

IBM® ThinkPad®:	✂ 760EL 11.3" DSTN color or 12.1" TFT color - thick						
Processor type	**Pentiumå 100/66, 120/60, or 133/66** / 64 bit to L2 cache / 64 bit to mem						
Processor upgrade	to Pentium 133/66 MHz which includes 256 KB L2 cache						
L2 cache	None (not separately upgradeable)						
Removable diskette	3.5" 1.44 MB ❍ / use in UltraBay or attach externally via rear ext FDD port						
External FDD port	External FDD port (requires FDD External Attachment Kit 66G3618)						
Removable CD-ROM	None / **can upgrade to 4 x, 6 x, or 8 x CD-ROM into UltraBay**						
Price				Pallette of 24 systems			Pallette 24 systems
Type - model	9547-U6G	9547-U6F	9547-U4F	9547-U4R	U4S	U4H	U48	9547-U4R
Preload (see side)	**Win 95**	**Win 95**	**Win 95**	**Blank** (none)		**Win 95**	**OS/2 Connect**	**Blank** (none)
Available date	May 1996	May 1996	May 1996	May 1996		May 1996	July 1996	May 1996
Pentium speed	**100/66 MHz**	**120/60 MHz**	**120/60 MHz**	**120/60 MHz**		**133/66 MHz**		**133/66 MHz**
Remv disk - size / ms	**810 MB** / 13 ms ❍		**1.08 GB** / 13 ms ❍	**810 MB**	**1.08 GB**	**1.08 GB** / 13 ms ❍		**1.08 GB** / 13 ms ❍
Disk controller	EIDE / busmaster / PCI 2.1 / supports two internal disks							
Display - size and type	**11.3 inch DSTN**		**12.1 inch TFT**	**11.3 DSTN**	**12.1 TFT**	**12.1 TFT**		**12.1 inch TFT**
Display - techology	**11.3" SVGA color / 640 x 480 or 800 x 600** 256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio					**12.1" SVGA color / 640 x 480 or 800 x 600 / 65,536 sim colors** Black Matrix TFT - active matrix / 100 to 1 contrast ratio		
Graphics - controller	Trident™ CYBER9320 / 32 bit SVGA accelerator / 1 MB EDO DRAM / 70 ns							
Graph - arch/data path	PCI 2.1 / 32 bit / external SVGA to 1024 x 768 w/ 256 colors							
Gaphics - features	Simultaneous LCD and CRT / 180 degree tilt							
Memory - std / max	**8 MB** / 72 MB or 104 MB		**8 MB** / 72 or 104	**8 MB** / 72 MB or 104 MB		**16 MB** / 80 MB or 104 MB		**16 MB** / 80 or 104 MB
Memory - features	70 ns / non-parity / 3.3 volt / EDO / 2 sockets for two JEDEC 144 pin EDO SO DIMMs of 8, 16, 32 MB							

810 MB = DMA Mode 2 or PIO Mode 4
1.08 GB = DMA Mode 2 or PIO Mode 4
1.2 GB = DMA Mode 1 or PIO Mode 3

Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)
Pointing / palm rest	**TrackPoint III**ä / integrated palm rest / ext keyboard support (with option cable)
Dimensions	*11.3" models:* 11.7 x 8.3 x 1.98" (192) — *12.1" models:* 11.7 x 8.3 x 2.14" (208)
Weight	*11.3" models:* 6.7 pounds (3.04 kg) — *12.1" models:* 7.03 pounds (3.19 kg)
Battery - type	Lithium Ion / intelligent *(optional NiMH battery supported)*
Battery - life (1 batt)	*11.3" models:* 3.1 hours — *12.1" models:* 3.3 hours
Battery - life (2 batt)	*11.3" models:* 6.2 hours — *12.1" models:* 6.6 hours
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, ext expansion)
Docking Station	Dock I and II / **SelectaDock I and II**
Port replicator	Port Replicator I and II / **SelectaDock Base Model I**
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III **/ CardBus 32 bit PCI** / PCMCIA 2.1 compatible
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot
Video in/out	None
MPEG decoder	None
DSP function	None
Data/fax modem	None
Audio support	**16 bit audio chip / 20 voice MIDI FM synthesis / ESS1688** Int stereo speakers / .5 watt / slide volume control / internal microphone
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm)
Telephone	None
Infrared ports	**Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs**
Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock / Personalization / Security Plate
Preinstalled software	Windows 95 with applications (listed on right)
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

***Liftable (pop-up) keyboard* to access and remove diskette drive, 1st/2nd disk, and 1st/2nd battery, and other UltraBay options**

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features
- PC Card Director 4.0
- Diskette Factory

1. Triton CoSession™ Host
2. PRODIGY®
3. SofNet FaxWorks™ Voice™
4. Puma TranXit™
5. Compuserv for Windows
6. NetFinity for Windows 95

- Lotus SmartSuite 96 CD-ROM

OS/2 WARP CONNECT PRELOAD

- IBM OS/2 Warp Connect Version 3 with WIN-OS/2 with BonusPak applications
- Online User's Guide
- ThinkPad Features Program
- PC Card Director 4.0
- Diskette Factory

1. Triton CoSession™ Host;
2. Puma TranXit™
3. NetFinity for OS/2
4. Prodigy

- Lotus SmartSuite 4.0 (entitled to SSuite 96)

BLANK PRELOAD

- License for SmartSuite

The left bay (UltraBay™) supports:
① 2nd disk (requires Second HDD Adapter)
② 2nd battery
③ std diskette drive
④ 2.88 MB diskette drive (option)
⑤ PCMCIA Cartridge (option)
⑥ IBM Wireless Modem for ARDIS (option)
⑦ IBM Wireless Modem for Cellular/CDPD (option)

Maximum internal disk capacity on 760EL is 4.2 GB with two 2.1 GB disks

Easy-Setup is entered by holding F1 when turning on.

ThinkPad 760EL supported batteries:

- 760 NiMH Battery (black)	41H9720
- Li-Ion Battery Pack II (gray)	29H9329
- Travel Quick Charger	85G1522
- Car Battery Adapter	49G2167

Compatible in ThinkPad 760EL family:

- Second HDD Adapter	29H9333
- Dock I (1 slot / 1 bay)	3545001
- Dock II (2 slot / 2 bay)	3546001
- IDE Conversion Card (for Dock II)	46H5994
- SelectaDock I	**3547001**
- SelectaDock II	**3547002**
- Port Replicator I (w/ PCMCIA slots)	66G3510
- Port Replicator II	66G3520
- SelectaDock Base Model I	**39H7405**
- 2.88 MB diskette	66G0108
- PCMCIA Cartridge (one Type III)	84G1301
- FDD External Attachment Kit	66G3618
- Pentium 133/66 MHz/L2 upgrade	46H5991
- 35 watt AC Adapter (slim, 4 pin)	76H0119
- 4 x CD-ROM (UltraBay)	**39H7413**
- 6 x CD-ROM (UltraBay)	**85G1957**
- 8 x CD-ROM (UltraBay)	**45H8786**
- 8 MB SO DIMM 3.3v NP EDO 64 bit	**92G7340**
- 16 MB SO DIMM 3.3v NP EDO 64 bit	**92G7341**
- 32 MB SO DIMM 3.3v NP EDO 64 bit	**92G7342**

ThinkPad 760E supported disks:

- 720 MB HDD II EIDE	12.5 mm	29H9383
- 810 MB HDD II EIDE	12.5 mm	29H9313
- 1.08 GB HDD II EIDE	12.5 mm	29H9319
- 1.2 GB (1.96" or higher models)		29H9325
- 1.4 GB HDD 3L EIDE	12.5 mm	69H8412
- 2.1 GB (1.96" in higher models)		69H8414
- 3.0 GB (1.96" + models)	17 mm	45H8789

FEATURES OF 760 MODELS

Setup Pointer (single page)
LCD indicator panel
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, safe suspend,and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). ❍ = Removable
✂ Models U4F, U4H, U4R, U4S, U48 withdrawn effective January 1997; U6F eff July 1997

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No warranties are expressed or implied in this summary
(760EL) Compiled by Roger Dodson, IBM. June 1997

IBM ThinkPad 760EL (Fall 1996 models) - withdrawn

IBM® ThinkPad®:	✂ **760EL** 11.3" SVGA DSTN or 12.1" SVGA TFT - thick			
Processor type	**Pentium® 120/60 or 133/66** / 64 bit to L2 cache / 64 bit to memory			
Processor upgrade	to Pentium 133/66 MHz which includes 256 KB L2 cache			
L2 cache	None (not separately upgradeable)	**256 KB** / write-back / direct mapped / 10 ns / synchronous pipelined burst		
Removable diskette	3.5" 1.44 MB ❍ / use in UltraBay or attach externally via rear ext FDD port			
External FDD port	External FDD port (requires FDD External Attachment Kit 66G3618)			
Removable CD-ROM	None / **can upgrade to optional CD-ROM into UltraBay**			
Price			Pallette of 24 systems	
Type - model	**9547-U6H**	**9547-U4G**	**9547-U4T**	**9547-U4K**
Preload (see side)	**Windows 95**	**Windows 95**	**Blank** (none)	**Windows NT 4.0**
Avail / withdrawn date	October 1996 / July 1997	October 1996 / October 1997	October 1996 / April 1997	Nov 1996 / July 1997
Pentium speed	**120/66 MHz**	**133/66 MHz**	**133/66 MHz**	**133/66 MHz**
Remv disk - size / ms	**1.35 GB** / 13 ms ❍	**2.1 GB** / 13 ms ❍	**2.1 GB** / 13 ms ❍	**2.1 GB** / 13 ms ❍
Disk controller	EIDE / busmaster / PCI 2.1 / supports two internal disks			
Display - size and type	**11.3 inch DSTN**	**12.1 inch TFT**	**12.1 inch TFT**	**12.1 inch TFT**
Display - techology	**11.3" SVGA color / 640 x 480 or 800 x 600** 256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio		**12.1" SVGA color / 640 x 480, 800 x 600 / 65,536 colors** Black Matrix TFT - active matrix / 100 to 1 contrast ratio	
Graphics - controller Graph - arch/data path	Trident™ CYBER9320 / 32 bit SVGA / 1 MB EDO DRAM / 70 ns PCI 2.1 / external SVGA to 1024 x 768 w/ 256 colors		Trident™ CYBER9385/64 bit SVGA/1 MB EDO DRAM/70 ns PCI 2.1 / external SVGA to 1024 x 768 w/ 256 colors	
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt			
Memory - std / max	**8 MB** / 72 MB or 104 MB	**16 MB** / 72 MB or 104 MB	**16 MB** / 80 MB or 104 MB	**32 MB**/80 MB or 104 MB
Memory - features	70 ns / non-parity / 3.3 volt / EDO / 2 sockets for 2 JEDEC 144 pin EDO SO DIMMs of 8, 16, 32 MB			1 socket available
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)			
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)			
Pointing / palm rest	**TrackPoint III**™ / integrated palm rest / ext keyboard support (with option cable)			
Dimensions	*11.3" models:* 11.7 x 8.3 x 1.98" (192)	*12.1" models:* 11.7 x 8.3 x 2.0" (194)		
Weight	*11.3" models:* 6.7 pounds (3.04 kg)	*12.1" models:* 6.41 pounds (2.91 kg)		
Battery - type	Lithium Ion / intelligent	*(optional NiMH battery supported)*		
Battery - life (1 batt)	*11.3" models:* 2.7 hours	*12.1" models:* 3.0 hours		
Battery - life (2 batt)	*11.3" models:* 5.4 hours	*12.1" modles:* 6.0 hours		
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs			
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, ext expansion)			
Docking Station	Dock I and II / **SelectaDock I and II and III**			
Port replicator	Port Replicator I and II / **SelectaDock Base Model I**			
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III **/ CardBus 32 bit PCI** / PCMCIA 2.1 compatible			
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)			
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot			
Video in/out	None	***Liftable (pop-up) keyboard* to access and remove diskette drive, 1st/2nd disk, and 1st/2nd battery, and other UltraBay options**		
MPEG decoder	None			
DSP function	None			
Data/fax modem	None			
Audio support	**16 bit audio chip / 20 voice MIDI FM synthesis / ESS1688** Int stereo speakers / .5 watt / slide volume control / internal microphone			
Jacks	Input jack (3.5 mm) / output jack (3.5 mm)			
Telephone	None			
Infrared ports	**Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs**			
Security	Power-on password / Hard disk password / Supervisor password / Security keyhole (requires cable) / Security latch for keyboard and DIMMS (requires cable) / PC Card lock / Personalization / Security Plate			
Preinstalled software	Windows 95 with applications (listed on right)			
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in			

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features
- PC Card Director 4.0
- Diskette Factory

1. Triton CoSession™ Host
2. Puma TranXit™
3. Compuserv for Windows
4. NetFinity for Windows 95

- Lotus SmartSuite 96 CD-ROM

WINDOWS NT 4.0 PRELOAD

- Microsoft Windows NT 4.0 Workstation with utilities and device drivers

NT model with 32 MB consists of 8 MB on planar, 8 MB in memory carrier, and 16 MB via a SO-DIMM. One SO-DIMM socket is available.

BLANK PRELOAD

- License for SmartSuite

ThinkPad 760EL supported batteries:

- 760 NiMH Battery (black)	41H9720
- Li-Ion Battery Pack II (gray)	29H9329
- Travel Quick Charger	85G1522
- Car Battery Adapter	49G2167

ThinkPad 760E supported disks:

- (360/750/755 IDE disks not supported)

- 720 MB HDD II EIDE	12.5 mm	29H9383
- 810 MB HDD II EIDE	12.5 mm	29H9313
- 1.08 GB HDD II EIDE	12.5 mm	29H9319
- 1.2 GB (1.96"+ models)	17 mm	29H9325
- 1.4 GB HDD 3L EIDE	12.5 mm	69H8412
- 2.1 GB (1.96"+ models)	17 mm	69H8414
- 3.0 GB (1.96"+ models)	17 mm	45H8789

FEATURES OF 760 MODELS

Setup Pointer (single page)
LCD indicator panel
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, safe suspend,and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

The left bay (UltraBay™) supports:
① 2nd disk (requires Second HDD Adapter)
② 2nd battery
③ std diskette drive
④ 2.88 MB diskette drive (option)
⑤ PCMCIA Cartridge (option)
⑥ IBM Wireless Modem for ARDIS (option)
⑦ IBM Wireless Modem for Cellular/CDPD (option)

Maximum internal disk capacity on 760EL is 4.2 GB with two 2.1 GB disks

Easy-Setup is entered by holding F1 when turning on.

810 MB = DMA Mode 2 or PIO Mode 4
1.08 GB = DMA Mode 2 or PIO Mode 4
1.2 GB = DMA Mode 1 or PIO Mode 3
1.35 GB = DMA Mode 2 or PIO Mode 4
2.1 GB = DMA Mode 2 or PIO Mode 4

Maximum is 80 MB or 104 MB on all models, but 104 MB requires a ThinkPad Proven vendor option.

Compatible in ThinkPad 760EL family:

- Second HDD Adapter	29H9333
- Dock I (1 slot / 1 bay)	3545001
- Dock II (2 slot / 2 bay)	3546001
- IDE Conversion Card (for Dock II)	46H5994
- SelectaDock I	**3547001**
- SelectaDock II	**3547002**
- SelectaDock III	**3547003**
- Port Replicator I (w/ PCMCIA slots)	66G3510
- Port Replicator II	66G3520
- SelectaDock Base Model I	**39H7405**
- 2.88 MB diskette	66G0108
- PCMCIA Cartridge (one Type III)	84G1301
- FDD External Attachment Kit	66G3618
- Pentium 133/66 MHz/L2 upgrade	46H5991
- 35 watt AC Adapter (slim, 4 pin)	76H0119
- 4 x CD-ROM (UltraBay)	**39H7413**
- 6 x CD-ROM (UltraBay)	**85G1957**
- 8 x CD-ROM (UltraBay)	**45H8786**
- 8 - 20 x CD-ROM (UltraBay)	**00K7903**
- 8 MB SO DIMM 3.3v NP EDO 64 bit	**92G7340**
- 16 MB SO DIMM 3.3v NP EDO 64 bit	**92G7341**
- 32 MB SO DIMM 3.3v NP EDO 64 bit	**92G7342**

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
❍ = Removable

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No warranties are expressed or implied in this summary
(760EL96) Compiled by Roger Dodson, IBM. October 1997

IBM ThinkPad 760ELD - withdrawn

IBM® ThinkPad®:	✂ 760ELD 12.1" TFT color - CD-ROM
Processor type	**Pentium® 100/66** (P54LM) / 64 bit to L2 cache / 64 bit to memory
Processor upgrade	to Pentium 133/66 MHz which includes 256 KB L2 cache
L2 cache	None (not separately upgradeable)
Removable diskette	3.5" 1.44 MB ❍ / use in UltraBay or attach externally via rear ext FDD port
External FDD port	External FDD port (requires FDD External Attachment Kit 66G3618)
Removable CD-ROM	**5.25" CD-ROM ❍ / 4 x speed / multi-session / XA / play with eject button EIDE / PIO Mode 3 (ATAPI)** / in UltraBay which supports several devices
Price	
Type - model	9547-U3F
Preload (see side)	**Windows 95**
Avail / withdrawn date	May 1996 / 1997
Remv disk - size / ms	**810 MB** / 13 ms ❍ / DMA Mode 2 or PIO Mode 4
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / supports two internal disks
Display - size and type	**12.1 inch SVGA color / 640 x 480 or 800 x 600 / 65,536 simultaneous colors**
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9320 / 32 bit SVGA accelerator / 1 MB EDO DRAM / 70 ns
Graph - arch/data path	PCI 2.1 / 32 bit
Gaphics - features	Simultaneous LCD and CRT / 180 degree tilt
Graphics - external	External SVGA to 1024 x 768 with 256 colors
Memory - std / max	**8 MB** / 72 MB 70 ns / non-parity / 3.3 volt / EDO
Memory - upgrade	2 sockets for two JEDEC 144 pin EDO SO DIMMs of 8, 16, 32 MB
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)
Pointing / palm rest	**TrackPoint III**™ / integrated palm rest / ext keyboard support (w/ option cable)
Dimensions	11.7 x 8.3 x 2.14" (208 cubic inches)
Weight (with CD-ROM)	7.28 pounds (3.30 kg)
Battery - type	Lithium Ion / intelligent *optional NiMH*
Battery - life (1 batt)	3.2 hours
Battery - life (2 batt)	6.4 hours
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, ext expansion)
Docking Station	Dock I and II / **SelectaDock I, II and III**
Port replicator	Port Replicator I and II / **SelectaDock Base Model I**
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III **/ CardBus 32 bit PCI** / PCMCIA 2.1 compatible
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot
Video in/out	None
MPEG decoder	None
DSP function	None
Data/fax modem	None
Audio support	**16 bit audio chip / 20 voice MIDI FM synthesis / ESS1688** Int stereo speakers / .5 watt / slide volume control / internal microphone
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm)
Telephone	None
Infrared ports	**Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs**
Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock / Personalization / Security Plate
Preinstalled software	Windows 95 with applications (listed on right)
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

***Liftable (pop-up) keyboard* to access and remove CD-ROM, diskette drive, 1st/2nd disk, and 1st/2nd battery**

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features
- PC Card Director 4.0
- Diskette Factory

1. Triton CoSession™ Host;
2. PRODIGY®
3. SofNet FaxWorks™ Fax
4. Puma TranXit™
5. Compuserv for Windows
6. NetFinity for Windows 95

- Lotus SmartSuite 96 CD-ROM

Easy-Setup is entered by holding F1 when turning on.

810 MB = DMA Mode 2 or PIO Mode 4
1.08 GB = DMA Mode 2 or PIO Mode 4
1.2 GB = DMA Mode 1 or PIO Mode 3

ThinkPad 760 ELD supported disks:
- (360/750/755 IDE disks not supported)

- 720 MB HDD II EIDE	12.5 mm	29H9383
- 810 MB HDD II EIDE	12.5 mm	29H9313
- 1.08 GB HDD II EIDE	12.5 mm	29H9319
- 1.2 GB (1.96"+ models)	17 mm	29H9325
- 1.4 GB HDD 3L EIDE	12.5 mm	69H8412
- 2.1 GB (1.96"+ models)	17 mm	69H8414
- 3.0 GB (1.96"+ models)	17 mm	45H8789
- 5.1 GB (1.96" or higher models)		00K7902

ThinkPad 760E supported batteries:

- 760 NiMH Battery (black)	41H9720
- Li-Ion Battery Pack II (gray)	29H9329
- Travel Quick Charger	85G1522
- Car Battery Adapter	49G2167

The left bay (UltraBay™) supports:
① 2nd disk
② 2nd battery
③ std diskette drive
④ CD-ROM
⑤ 2.88 MB diskette (option)
⑥ PCMCIA Cartridge (option)
⑦ IBM Wireless Modem ARDIS (option)
⑧ IBM Wireless Modem for Cellular/ CDPD (option)

All 760 systems support the NiMH or Li-Ion battery in both battery bay and UltraBay.

Maximum internal disk capacity on 760ELD is 2.4 GB with two 1.2 GB disks.

Compatible in ThinkPad 760ELD family:

- Second HDD Adapter	29H9333
- Dock I (1 slot / 1 bay)	3545001
- Dock II (2 slot / 2 bay)	3546001
- IDE Conversion Card (for Dock I/II)	46H5994
- SelectaDock I	**3547001**
- Port Replicator I (w/ PCMCIA slots)	66G3510
- Port Replicator II	66G3520
- SelectaDock Base Model I	**39H7405**
- 2.88 MB diskette drive	66G0108
- PCMCIA Cartridge (one Type III)	84G1301
- FDD External Attachment Kit	66G3618
- Pentium 133/66 MHz/L2 upgrade	46H5991
- 4 x CD-ROM (UltraBay)	**39H7413**
- 6 x CD-ROM (UltraBay)	**85G1957**
- 8 x CD-ROM (UltraBay)	**45H8786**
- 8-20 x CD-ROM (UltraBay)	**00K7903**
- 8 MB SO DIMM 3.3v NP EDO 64 bit	**92G7340**
- 16 MB SO DIMM 3.3v NP EDO 64 bit	**92G7341**
- 32 MB SO DIMM 3.3v NP EDO 64 bit	**92G7342**

FEATURES OF 760 MODELS

Setup Pointer (single page)
LCD indicator panel
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
❍ = Removable

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No warranties are expressed or implied in this summary
(760ELD) Compiled by Roger Dodson, IBM. December 1997

IBM ThinkPad 760E (SVGA) - withdrawn

IBM® ThinkPad®:	✂ 760E 12.1" SVGA TFT - thick		✂ 760E 12.1" SVGA TFT - thin	
Processor type	**Pentium® 120/60 or 133/66** (P54LM) / 64 bit to L2 cache / 64 bit to mem			
Processor upgrade	to Pentium 133/66 MHz from 120/60			
L2 cache	256 KB / write-back / direct mapped / 10 ns / synchronous pipelined burst			
Removable diskette	3.5" 1.44 MB ❍ / in UltraBay			
External FDD port	External FDD port		None	
Removable CD-ROM	None / **upgrade CD-ROM**		None / can not install a CD-ROM (too thin)	
Price		Pallet of 24		
Type - model	**9546-U3B**	**9546-U3L**	**9546-U4B**	**9546-U4A**
Preload (see side)	**Windows 95**	**Blank**	**Windows 95**	**Windows 95**
Avail / withdrawn date	May 1996 / Jan 1997		May 1996 / Jan 1997	May 1996 / Jan 1997
Pentium speed	**120/60 MHz**		**120/60 MHz**	**133/66 MHz**
Remv disk - size / ms	**1.2 GB** / 12 ms ❍		**810 MB** / 13 ms ❍	**1.08 GB** / 13 ms ❍
Disk controller	EIDE / busmaster / PCI 2.1 / supports two internal disks			
Display - size and type	**12.1 inch SVGA color / 640 x 480 or 800 x 600 / 65,536 simultaneous colors**			
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio			
Graphics - controller	Trident™ CYBER9320 / 32 bit SVGA accelerator / 1 MB EDO DRAM / 70 ns			
Graph - arch/data path	PCI 2.1 / 32 bit / external SVGA to 1024 x 768 w/ 256 colors			
Gaphics - features	Simultaneous LCD and CRT / 180 degree tilt			
Memory - std / max	**8 MB** / 72 MB or 104 MB		**8 MB** / 72 MB or 104 MB	**16 MB** / 80 or 104 MB
Memory - features	70 ns / non-parity / 3.3 volt / EDO			
Memory - upgrade	2 sockets for two JEDEC 144 pin EDO SO DIMMs of 8, 16, 32 MB			
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)			
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)			
Pointing / palm rest	**TrackPoint III**™ / integrated palm rest / ext keyboard support (w/ optional cable)			
Dimensions	11.7 x 8.3 x 2.14" (208)		11.7 x 8.3 x 1.92" (186 cubic inches)	
Weight	7.06 pounds (3.20 kg)		6.76 pounds (3.07 kg)	
Battery - type	Lithium Ion / intelligent *optional NiMH*		***Liftable (pop-up) keyboard* to access and remove diskette drive, 1st/2nd disk, and 1st/2nd battery (thick models support CD-ROM)**	
Battery - life (1 batt)	3.4 hours			
Battery - life (2 batt)	6.8 hours			
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs			
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, ext expansion)			
Docking Station	Dock I and II / **SelectaDock I and II**			
Port replicator	Port Replicator I and II / **SelectaDock Base Model I**			
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III **/ CardBus 32 bit PCI** / PCMCIA 2.1 compatible			
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)			
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot			
Video in/out	None			
MPEG decoder	None			
DSP function	**Mwave MDSP2780 DSP with modem, fax, audio, telephony function**			
Data/fax modem	**Data/fax modem function via DSP** (v.34 to 28.8 Kbps) / Mwave 2.1			
Audio support	**16 bit audio chip on planar with Mwave DSP** **Int stereo speakers / .5 watt / slide volume control / internal microphone**			
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm)			
Telephone	Telephone / answering machine / full duplex speakerphone / DSVD			
Infrared ports	**Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs**			
Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock / Personalization / Security Plate			
Preinstalled software	Windows 95 with applications (listed on right)			
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in			

Key differences between 760E and 760ED:

760E	760ED
No std CD-ROM	Standard CD-ROM
No video in/out	Video in/out and cable
No joystick/MIDI port	Joystick/MIDI port
No MPEG decoder	MPEG decoder
Lighter	Heavier
Price	Price

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features
- PC Card Director 4.0
- Diskette Factory

1. Triton CoSession™ Host;
2. PRODIGY®
3. SofNet FaxWorks™ Fax
4. Puma TranXit™
5. Compuserv for Windows
6. NetFinity for Windows 95

- Lotus SmartSuite 96 CD-ROM

BLANK PRELOAD

- License for SmartSuite

Easy-Setup is entered by holding F1 when turning on.

810 MB = DMA Mode 2 or PIO Mode 4
1.08 GB = DMA Mode 2 or PIO Mode 4
1.2 GB = DMA Mode 1 or PIO Mode 3

Memory is upgradeable to 104 MB with a ThinkPad Proven option.

ThinkPad 760E supported batteries:

- 760 NiMH Battery (black)	41H9720
- Li-Ion Battery Pack II (gray)	29H9329
- Travel Quick Charger	85G1522
- Car Battery Adapter	49G2167

ThinkPad 760E supported disks:

- (360/750/755 IDE disks not supported)

- 720 MB HDD II EIDE	12.5 mm	29H9383
- 810 MB HDD II EIDE	12.5 mm	29H9313
- 1.08 GB HDD II EIDE	12.5 mm	29H9319
- 1.2 GB (1.96" or higher models)		29H9325
- 1.4 GB HDD 3L EIDE	12.5 mm	69H8412
- 2.1 GB (1.96" or higher models)		69H8414

The left bay (UltraBay™) supports:
① 2nd disk (requires Second HDD Adapter)
② 2nd battery
③ std diskette drive
④ 2.88 MB diskette drive (option)
⑤ PCMCIA Cartridge (option)
⑥ IBM Wireless Modem for ARDIS (option)
⑦ IBM Wireless Modem for Cellular/CDPD (option)

Maximum internal disk capacity on 760E is 4.2 GB with two 2.1 GB disks (thick models) or 2.8 GB with two 1.4 GB disks (thin models)

Easy-Setup is entered by holding F1 when turning on.

Integrated Mwave™ DSP provides:
① **Data modem function** (to 28.8 Kbps)
② **Fax modem function** (to 14.4 Kbps)
③ **Audio function** (wave table synthesis)
④ **Telephone function**
- Full duplex speakerphone

⑤ **Digital Simultaneous Voice and Data**

Compatible in ThinkPad 760E family:

- Second HDD Adapter	29H9333
- Dock I (1 slot / 1 bay)	3545001
- Dock II (2 slot / 2 bay)	3546001
- IDE Conversion Card (for Dock I/II)	46H5994
- **SelectaDock I**	**3547001**
- **SelectaDock II**	**3547002**
- Port Replicator I (w/ PCMCIA slots)	66G3510
- Port Replicator II	66G3520
- **SelectaDock Base Model I**	**39H7405**
- 2.88 MB diskette drive	66G0108
- PCMCIA Cartridge (one Type III)	84G1301
- FDD External Attachment Kit	66G3618
- Pentium 133/66 MHz/L2 upgrade	46H5991
- 35 watt AC Adapter (slim, 4 pin)	76H0119
- **4 x CD-ROM** (for thick model)	**39H7413**
- **6 x CD-ROM** (for thick model)	**85G1957**
- **8 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7340**
- **16 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7341**
- **32 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7342**

FEATURES OF 760 MODELS

Setup Pointer (single page)
LCD indicator panel
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
❍ = Removable

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No warranties are expressed or implied in this summary
(760E) Compiled by Roger Dodson, IBM. December 1996

IBM ThinkPad 760E (XGA) - withdrawn

IBM® ThinkPad®:	✂ **760E** 12.1" XGA color - thick
Processor type	**Pentium® 150/60** (P54CSLM) / 64 bit to L2 cache / 64 bit to memory
Processor upgrade	None
L2 cache	**256 KB** / write-back / direct mapped / 10 ns / synchronous pipelined burst
Removable diskette	3.5" 1.44 MB ❍ / in UltraBay
External FDD port	External FDD port (requires External FDD Attachment Kit 66G3618)
Removable CD-ROM	None / **can upgrade with optional CD-ROM into UltraBay**
Price	
Type - model	**9546-U9B**
Preload (see side)	**Windows 95**
Remv disk - size / ms	**2.1 GB** / 12 ms ❍
Disk controller	EIDE / busmaster / PCI 2.1 / supports two internal disks (so 4.2 GB max)
Avail / withdrawn date	October 1996 / October 1997
Display - size and type	**12.1 inch XGA color / 640 x 480, 800 x 600, or 1024 x 768 / 65,536 siml colors**
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9385 / 64 bit SVGA accelerator / **2 MB EDO DRAM** / 70 ns
Graph - arch/data path	PCI 2.1 / 32 bit / **DCI, DirectDraw, EnDIVE support**
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt
Graphics - external	External SVGA to 1280 x 1024 w/ 256 colors or 1024 x 768 w/ 65,536 colors
Memory - std / max	**16 MB** / 80 MB (104 MB with ThinkPad Proven option)
Memory - features	70 ns / non-parity / 3.3 volt / EDO
Memory - upgrade	2 sockets for two JEDEC 144 pin EDO SO DIMMs of 8, 16, 32 MB
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)
Pointing / palm rest	**TrackPoint III**™ / integrated palm rest / ext keyboard support (w/ optional cable)
Dimensions	11.7 x 8.3 x 2.0" (194 cubic inches)
Weight	6.41 pounds (2.91 kg)
Battery - type	Lithium Ion / intelligent *optional*
Battery - life (1 batt)	2.6 hours *NiMH*
Battery - life (2 batt)	5.2 hours
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, ext expansion)
Docking Station	Dock I and II / **SelectaDock I and II and III**
Port replicator	Port Replicator I and II / **SelectaDock Base Model I**
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III **/ CardBus 32 bit PCI** / PCMCIA 2.1 compatible
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot
Video in/out	None
MPEG decoder	None
DSP function	**Mwave MDSP2780 DSP with modem, fax, audio, telephony function**
Data/fax modem	**Data/fax modem function via DSP** (v.34 to 33.6 Kbps) / Mwave 2.1
Audio support	**16 bit audio chip on planar with Mwave DSP** **Int stereo speakers / .5 watt / slide volume control / internal microphone**
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm)
Telephone	Telephone / answering machine / full duplex speakerphone / DSVD
Infrared ports	Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs
Security	Power-on password / Hard disk password / Supervisor password / Security keyhole / Security latch for keyboard and DIMMS (requires cable lock) / PC Card lock / Personalization / Security Plate
Preinstalled software	Windows 95 with applications (listed on right)
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

***Liftable (pop-up) keyboard* to access and remove diskette drive, 1st/2nd disk, and 1st/2nd battery (thick models support CD-ROM)**

Key differences between 760E and 760ED:

760E	**760ED**
No std CD-ROM	Standard CD-ROM
No video in/out	Video in/out and cable
No joystick/MIDI port	Joystick/MIDI port
No MPEG decoder	MPEG decoder
Lighter	Heavier
Price	Price

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features
- PC Card Director 4.0
- Diskette Factory

1. Triton CoSession™ Host
2. SofNet FaxWorks™ Voice™
3. Puma TranXit™
4. Compuserv for Windows
5. NetFinity for Windows 95

- Lotus SmartSuite 96 CD-ROM

Easy-Setup is entered by holding F1 when turning on.

810 MB	= DMA Mode 2 or PIO Mode 4
1.08 GB	= DMA Mode 2 or PIO Mode 4
1.2 GB	= DMA Mode 1 or PIO Mode 3
1.35 GB	= DMA Mode 2 or PIO Mode 4
2.1 GB	= DMA Mode 2 or PIO Mode 4

ThinkPad 760E supported batteries:

- 760 NiMH Battery (black)	41H9720
- Li-Ion Battery Pack II (gray)	29H9329
- Travel Quick Charger	85G1522
- Car Battery Adapter	49G2167

ThinkPad 760E supported disks:

- (360/750/755 IDE disks not supported)		
- 720 MB HDD II EIDE	12.5 mm	29H9383
- 810 MB HDD II EIDE	12.5 mm	29H9313
- 1.08 GB HDD II EIDE	12.5 mm	29H9319
- 1.2 GB (1.96"+ models)	17 mm	29H9325
- 1.4 GB HDD 3L EIDE	12.5 mm	69H8412
- 2.1 GB (1.96"+ models)	17 mm	69H8414
- 3.0 GB (1.96"+ models)	17 mm	45H8789
- 5.1 GB (1.96"+ models)	17 mm	00K7902

The left bay (UltraBay™) supports:
① 2nd disk (requires Second HDD Adapter)
② 2nd battery
③ std diskette drive
④ 2.88 MB diskette drive (option)
⑤ PCMCIA Cartridge (option)
⑥ IBM Wireless Modem for ARDIS (option)
⑦ IBM Wireless Modem for Cellular/CDPD (option)

Maximum internal disk capacity on 760E is 10.2 GB with two 5.1 GB disks

Easy-Setup is entered by holding F1 when turning on.

Integrated Mwave™ DSP provides:
① **Data modem function** (to 28.8 Kbps)
② **Fax modem function** (to 14.4 Kbps)
③ **Audio function** (wave table synthesis)
④ **Telephone function**
- Full duplex speakerphone

⑤ **Digital Simultaneous Voice and Data**

Compatible in ThinkPad 760E family:

- Second HDD Adapter	29H9333
- Dock I (1 slot / 1 bay)	3545001
- Dock II (2 slot / 2 bay)	3546001
- IDE Conversion Card (for Dock I/II)	46H5994
- SelectaDock I	**3547001**
- SelectaDock II	**3547002**
- SelectaDock III	**3547003**
- Port Replicator I (w/ PCMCIA slots)	66G3510
- Port Replicator II	66G3520
- SelectaDock Base Model I	**39H7405**
- 2.88 MB diskette drive	66G0108
- PCMCIA Cartridge (one Type III)	84G1301
- FDD External Attachment Kit	66G3618
- 35 watt AC Adapter (slim, 4 pin)	76H0119
- 4 x CD-ROM (UltraBay)	**39H7413**
- 6 x CD-ROM (UltraBay)	**85G1957**
- 8 x CD-ROM (UltraBay)	**45H8786**
- 8 - 20 x CD-ROM (UltraBay)	**00K7903**
- 8 MB SO DIMM 3.3v NP EDO 64 bit	**92G7340**
- 16 MB SO DIMM 3.3v NP EDO 64 bit	**92G7341**
- 32 MB SO DIMM 3.3v NP EDO 64 bit	**92G7342**

FEATURES OF 760 MODELS

Setup Pointer (single page)
LCD indicator panel
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
❍ = Removable

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No warranties are expressed or implied in this summary
(760E96) Compiled by Roger Dodson, IBM. October 1997

IBM ThinkPad 760ED (SVGA) - withdrawn

IBM® ThinkPad®:	✂ **760ED** 12.1" SVGA TFT- 4 x CD-ROM - Enhanced Video - MPEG
Processor type	**Pentium® 133/66** (P54CSLM) / 64 bit to L2 cache / 64 bit to memory
Processor upgrade	None
L2 cache	256 KB / write-back / direct mapped / 10 ns / synchronous pipelined burst
Removable diskette	3.5" 1.44 MB ❍ / use in UltraBay or attach externally via rear ext FDD port
External FDD port	External FDD port (requires External FDD Attachment Kit 66G3618)
Removable CD-ROM	**5.25" CD-ROM ❍ / 4 x speed /** multi-session / XA / play with eject button EIDE / PIO Mode 3 (ATAPI) / in UltraBay which supports several devices
Type - model	**9546-U3A**
Preload (see side)	**Windows 95**
Remv disk - size / ms	**1.2 GB** / 12 ms ❍ / DMA Mode 1 or PIO Mode 3
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / supports two internal disks
Avail / withdrawn date	May 1996 / January 1997
Display - size and type	**12.1 inch SVGA color / 640 x 480 or 800 x 600 / 262,166 simultaneous colors**
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9385 / 64 bit SVGA accelerator / **2 MB EDO DRAM** / 70 ns
Graph - arch/data path	PCI 2.1 / 32 bit / **DCI, DirectDraw, EnDIVE support**
Gaphics - features	Simultaneous LCD and CRT / 180 degree tilt
Graphics - external	External SVGA to 1280 x 1024 w/ 256 colors or 1024 x 768 w/ 65,536 colors
Memory - std / max	**16 MB** / 80 MB (104 MB with ThinkPad Proven option) 70 ns / non-parity / 3.3v volt / EDO
Memory - upgrade	2 sockets for two JEDEC 144 pin EDO SO DIMMs of 8, 16, 32 MB
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)
Pointing / palm rest	**TrackPoint III**™ / integrated palm rest
Ext keyboard support	Yes (with option cable)
Dimensions	11.7 x 8.3 x 2.14" (208 cubic inches)
Weight (with CD-ROM)	7.38 pounds (3.35 kg)
Battery - type	Lithium Ion / intelligent *optional NiMH*
Battery - life (1 batt)	2.8 hours
Battery - life (2 batt)	5.6 hours
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, MPEG, ext expansion)
Docking Station	Dock I and II / **SelectaDock I and II**
Port replicator	Port Replicator I and II / **SelectaDock Base Model I and II**
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III **/ CardBus 32 bit PCI** / PCMCIA 2.1 compatible
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot
Video in/out	**Composite and S-Video in/out / game port**
MPEG decoder	**MPEG-1 & MPEG-2 Half Horizontal Resolution (HHR) decoder** (MPEGCD1)
DSP function	**Mwave MDSP2780 DSP with modem, fax, audio, telephony function**
Data/fax modem	**Data/fax modem function via DSP** (v.34 to 28.8 Kbps) / Mwave 2.1
Audio support	**16 bit audio chip on planar with Mwave DSP** **Int stereo speakers / .5 watt / slide volume control / internal microphone**
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / Joystick/MIDI port (includes cable)
Telephone	Telephone / answering machine / full duplex speakerphone / DSVD
Infrared ports	**Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs**
Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ cable lock) / Security latch for keyboard and DIMMs (requires Kensington) / PC Card lock / Personalization / Security Plate
Preinstalled software	Windows 95 with applications (listed on right)
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

The left bay (UltraBay™) supports:
① 2nd disk; ② 2nd battery
③ std diskette drive; ④ CD-ROM
⑤ 2.88 MB diskette (option)
⑥ PCMCIA Cartridge (option)
⑦ IBM Wireless Modem ARDIS (option)
⑧ IBM Wireless Modem for Cellular/ CDPD (option)

***Liftable (pop-up) keyboard* to access and remove CD-ROM, diskette drive, 1st/2nd disk, and 1st/2nd battery**

Enhanced Video Card in 760ED provides:

- **Composite in** and S-Video in (NTSC or PAL) for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay.
- **Composite out** and S-Video out to TV (connect to video out port; NTSC or PAL); or record on VCR the screen of ThinkPad.
- **Mini game port** for MIDI or joystick
- Includes video in and video out ports (includes one video in/out cable)
- Use software called Digital Video Producer™
- **Hardware acceleration** of 'Video for Windows'™ formerly done by a separate ASCII chip (as in 755CD and 760CD) has now been integrated into the 9385 graphics controller; interpolation in X and Y axis; color space conversion when DCI enabled
- **Plays back MPEG motion videos, CD-I movies, video CDs, and Karaoke MPEG video titles** (at 640 x 480, 800 x 600, or externally at 1024 x 768)

Compatible in ThinkPad 760ED family:

- Second HDD Adapter	29H9333
- Dock I (1 slot / 1 bay)	3545001
- Dock II (2 slot / 2 bay)	3546001
- IDE Conversion Card (for Dock I/II)	46H5994
- SelectaDock I	**3547001**
- SelectaDock II	**3547002**
- Port Replicator I (w/ PCMCIA slots)	66G3510
- Port Replicator II	66G3520
- SelectaDock Base Model I	**39H7405**
- 2.88 MB diskette drive	66G0108
- PCMCIA Cartridge (one Type III)	84G1301
- FDD External Attachment Kit	66G3618
- 35 watt AC Adapter (slim, 4 pin)	76H0119
- 4 x CD-ROM (UltraBay)	**39H7413**
- 6 x CD-ROM (UltraBay)	**85G1957**
- 8 MB SO DIMM 3.3v NP EDO 64 bit	**92G7340**
- 16 MB SO DIMM 3.3v NP EDO 64 bit	**92G7341**
- 32 MB SO DIMM 3.3v NP EDO 64 bit	**92G7342**

ThinkPad 760ED strengths over 760CD:

- **Pentium 133/66 MHz** (vs 120/60 MHz)
- **PCI bus** (vs VL-Bus)
- **16 MB EDO memory** (vs 8 MB fast page)
- **64 bit path to memory** (vs 32 bit)
- **9385 64 bit graphics with 2 MB EDO**
- **CardBus PC Card support (32 bit PCI)**

Integrated Mwave™ DSP provides:

① **Data modem function**
- V.22bis, V.32, V.32bis, v.34 (28.8 Kbps)

② **Fax modem function**
- G3 fax send/receive (14.4 Kbps)

③ **Audio function**
- Stereo waveform record and playback
- Qsound support (3-D effect)
- 32 voice MIDI wave table synthesizer
- SoundBlaster™ support / text to speech
- MPEG audio decode

④ **Telephone function**
- Full telephone (can use opt headset)
- Telephone answering machine
- Full duplex speakerphone

⑤ **Digital Simultaneous Voice Data**

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features
- PC Card Director 4.0
- Diskette Factory

1. Triton CoSession™ Host;
2. PRODIGY®
3. SofNet FaxWorks™ Voice™
4. Puma TranXit™
5. Compuserv for Windows
6. NetFinity for Windows 95
7. Asymetrix® Digital Video Producer™
8. MPEG Sampler (CD-ROM)

- Lotus SmartSuite 96 CD-ROM

Easy-Setup is entered by holding F1 when turning on.

ThinkPad 760ED supported batteries:

- 760 NiMH Battery (black)	41H9720
- Li-Ion Battery Pack II (gray)	29H9329
- Travel Quick Charger	85G1522
- Car Battery Adapter	49G2167

ThinkPad 760E supported disks:

- (360/750/755 IDE disks not supported)		
- 720 MB HDD II EIDE	12.5 mm	29H9383
- 810 MB HDD II EIDE	12.5 mm	29H9313
- 1.08 GB HDD II EIDE	12.5 mm	29H9319
- 1.2 GB (1.96" or higher models)		29H9325
- 1.4 GB HDD 3L EIDE	12.5 mm	69H8412
- 2.1 GB (1.96" or higher models)		69H8414

FEATURES OF 760 MODELS

Setup Pointer (single page)
LCD indicator panel
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
❍ = Removable

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No warranties are expressed or implied in this summary
(760ED) Compiled by Roger Dodson, IBM. December 1996

IBM ThinkPad 760ED (XGA) - withdrawn

IBM® ThinkPad®:	✂ **760ED** 12.1" XGA TFT - 6 x CD-ROM - Enhanced Video - MPEG
Processor type	**Pentium® 133/66** (P54CSLM) / 64 bit to L2 cache / 64 bit to memory
Processor upgrade	None
L2 cache	**256 KB** / write-back / direct mapped / 10 ns / synchronous pipelined burst
Removable diskette	3.5" 1.44 MB ❍ / use in UltraBay or attach externally via rear ext FDD port
External FDD port	External FDD port (includes Floppy Disk Drive Enclosure)
Removable CD-ROM	**5.25" CD-ROM ❍ / 6 x speed** / multi-session / XA / play with eject button EIDE / PIO Mode 3 (ATAPI) / in UltraBay which supports several devices
Type - model	**9546-U9A**
Preload (see side)	**Windows 95**
Remv disk - size / ms	**2.1 GB** / 12 ms ❍ / DMA Mode 2 or PIO Mode 4
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / supports two internal disks for 4.2 GB
Avail / withdrawn date	October 1996 / October 1997
Display - size and type	**12.1 inch XGA color / 640 x 480, 800 x 600 or 1024 x 768 / 65,536 siml colors**
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9385 / 64 bit SVGA accelerator / **2 MB EDO DRAM** / 70 ns
Graph - arch/data path	PCI 2.1 / 32 bit / **DCI, DirectDraw, EnDIVE support**
Gaphics - features	Simultaneous LCD and CRT / 180 degree tilt
Graphics - external	External SVGA to 1280 x 1024 w/ 256 colors or 1024 x 768 w/ 65,536 colors
Memory - std / max	**16 MB** / 80 MB (104 MB w/ ThinkPad Proven option) 70 ns / non-parity / 3.3v / EDO
Memory - upgrade	2 sockets for two JEDEC 144 pin EDO SO DIMMs of 8, 16, 32 MB
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)
Pointing / palm rest	**TrackPoint III**™ / integrated palm rest
Ext keyboard support	Yes (with option cable)
Dimensions	11.7 x 8.3 x 2.0" (194 cubic inches)
Weight (with CD-ROM)	6.65 pounds (3.02 kg)
Battery - type	Lithium Ion / intelligent *optional NiMH*
Battery - life (1 batt)	2.2 hours
Battery - life (2 batt)	4.4 hours
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, MPEG, ext expansion)
Docking Station	Dock I and II / **SelctaDock I and II and III**
Port replicator	Port Replicator I and II / **SelctaDock Base Model I**
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III **/ CardBus 32 bit PCI** / PCMCIA 2.1 compatible
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot
Video in/out	**Composite and S-Video in/out / game port**
MPEG decoder	**MPEG-1 & MPEG-2 Half Horizontal Resolution (HHR) decoder** (MPEGCD1)
DSP function	**Mwave MDSP2780 DSP with modem, fax, audio, telephony function**
Data/fax modem	**Data/fax modem function via DSP** (v.34 to 33.6 Kbps) / Mwave 2.1
Audio support	**16 bit audio chip on planar with Mwave DSP** **Int stereo speakers / .5 watt / slide volume control / internal microphone**
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / Joystick/MIDI port (includes cable)
Telephone	Telephone / answering machine / full duplex speakerphone / DSVD
Infrared ports	**Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs**
Security	Power-on password / Hard disk password / Supervisor password / Security keyhole (requires cable) / Security latch for keyboard and DIMMS (requires cable) / PC Card lock / Personalization / Security Plate
Preinstalled software	Windows 95 with applications (listed on right)
Warranty	

The left bay (UltraBay™) supports:
① 2nd disk; ② 2nd battery
③ std diskette drive; ④ CD-ROM
⑤ 2.88 MB diskette (option)
⑥ PCMCIA Cartridge (option)
⑦ IBM Wireless Modem ARDIS (option)
⑧ IBM Wireless Modem for Cellular/ CDPD (option)

***Liftable (pop-up) keyboard* to access and remove CD-ROM, diskette drive, 1st/2nd disk, and 1st/2nd battery**

ThinkPad 760ED strengths over 760CD:

- **Pentium 133/66 MHz** (vs 120/60 MHz)
- **PCI bus** (vs VL-Bus)
- **16 MB EDO memory** (vs 8 MB fast page)
- **64 bit path to memory** (vs 32 bit)
- **9385 64 bit graphics with 2 MB EDO**
- **CardBus PC Card support (32 bit PCI)**

Integrated Mwave™ DSP provides:

① **Data modem function**
- V.22bis, V.32, V.32bis, v.34 (28.8 Kbps)

② **Fax modem function**
- G3 fax send/receive (14.4 Kbps)

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- MPEG audio decode

④ **Telephone function**
- Full telephone (can use opt headset)
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- Full duplex speakerphone

⑤ **Digital Simultaneous Voice Data**

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features
- PC Card Director 4.0
- Diskette Factory

1. Triton CoSession™ Host
2. SofNet FaxWorks™ Voice™
3. Puma TranXit™
4. Compuserv for Windows
5. NetFinity for Windows 95
6. Asymetrix® Digital Video Producer™
7. MPEG Sampler (CD-ROM)

- Lotus SmartSuite 96 CD-ROM

Easy-Setup is entered by holding F1 when turning on.

ThinkPad 760ED supported batteries:

- 760 NiMH Battery (black)	41H9720
- Li-Ion Battery Pack II (gray)	29H9329
- Travel Quick Charger	85G1522
- Car Battery Adapter	49G2167

ThinkPad 760ED supported disks:

- (360/750/755 IDE disks not supported)		
- 720 MB HDD II EIDE	12.5 mm	29H9383
- 810 MB HDD II EIDE	12.5 mm	29H9313
- 1.08 GB HDD II EIDE	12.5 mm	29H9319
- 1.2 GB (1.96"+ models)	17 mm	29H9325
- 1.4 GB HDD 3L EIDE	12.5 mm	69H8412
- 2.1 GB (1.96"+ models)	17 mm	69H8414
- 3.0 GB (1.96"+ models)	17 mm	45H8789
- 5.1 GB (1.96"+ models)	17 mm	00K7902

Enhanced Video Card in 760ED provides:

- **Composite in** and S-Video in (NTSC or PAL) for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay.
- **Composite out** and S-Video out to TV (connect to video out port; NTSC or PAL); or record on VCR the screen of ThinkPad.
- **Mini game port** for MIDI or joystick
- Includes video in and video out ports (includes one video in/out cable)
- Use software called Digital Video Producer™
- **Hardware acceleration** of 'Video for Windows'™ formerly done by a separate ASCII chip (as in 755CD and 760CD) has now been integrated into the 9385 graphics controller; interpolation in X and Y axis; color space conversion when DCI enabled

- **Plays back MPEG motion videos, CD-I movies, video CD's, and Karaoke MPEG video titles**

Compatible in ThinkPad 760ED family:

- Second HDD Adapter	29H9333
- Dock I (1 slot / 1 bay)	3545001
- Dock II (2 slot / 2 bay)	3546001
- IDE Conversion Card (for Dock I/II)	46H5994
- **SelectaDock I**	**3547001**
- **SelectaDock II**	**3547002**
- **SelectaDock III**	**3547003**
- Port Replicator I (w/ PCMCIA slots)	66G3510
- Port Replicator II	66G3520
- **SelectaDock Base Model I**	**39H7405**
- 2.88 MB diskette drive	66G0108
- PCMCIA Cartridge (one Type III)	84G1301
- FDD External Attachment Kit	66G3618
- 35 watt AC Adapter (slim, 4 pin)	76H0119
- **4 x CD-ROM** (UltraBay)	**39H7413**
- **6 x CD-ROM** (UltraBay)	**85G1957**
- **8 x CD-ROM** (UltraBay)	**45H8786**
- **8 - 20 x CD-ROM** (UltraBay)	**00K7903**
- **8 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7340**
- **16 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7341**
- **32 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7342**

FEATURES OF 760 MODELS

Setup Pointer (single page)
LCD indicator panel
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
❍ = Removable

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No warranties are expressed or implied in this summary
(760ED96) Compiled by Roger Dodson, IBM. October 1997

IBM ThinkPad 760XL - withdrawn

IBM® ThinkPad®: ✂ **760XL**
12.1" SVGA TFT - thick

Processor type	**Pentium® MMX 166/66 MHz** (P55CLM) / 64 bit to L2 cache / 64 bit to memory
Processor upgrade	None
L2 cache	**256 KB** / write-back / direct mapped / 10 ns / synchronous pipelined burst
Removable diskette	3.5" 1.44 MB ❍ / use in UltraBay or attach externally via rear ext FDD port
External FDD port	External FDD port (requires FDD External Attachment Kit 66G3618)
Removable CD-ROM	None / **can upgrade to 4 x, 6 x, 8 x, or 8-20 x CD-ROM into UltraBay**
Type - model (code)	**9547-U9C** (Michigan MMX) / **9547-U9K** (Michigan MMX)
Preload (see side)	**Windows 95 OSR2** / **Windows NT Workstation 4.0**
Avail / withdrawn date	April 1997 / January 1998 / April 1997 / January 1998
Remv disk - size / ms	**2.1 GB** / 13 ms ❍ / DMA Mode 2 or PIO Mode 4
Disk controller	EIDE / busmaster / PCI 2.1 / supports two internal disks
Display - size and type	**12.1 inch SVGA color / 640 x 480, 800 x 600 / 65,536 simultaneous colors**
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9385 / 64 bit SVGA accelerator / 1 MB EDO DRAM / 70 ns
Graph - arch/data path	PCI 2.1 / 32 bit / DCI, DirectDraw, EnDIVE support
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt
Graphics - external	External SVGA to 1024 x 768 with 256 colors
Memory - std / max	**16 MB** / 104 MB / **32 MB** / 104 MB
Memory - sockets avail	2 sockets available / 1 socket available (1 socket uses 16 MB)
Memory - features	70 ns / non-parity / 3.3 volt / EDO / supports JEDEC 144 pin SO-DIMMs 8 MB in system; 8 MB on memory module with 2 SO-DIMM sockets Memory module under disk (not removable) and accessible by opening keyboard If use 64 MB SO-DIMM, the 8 MB on memory module is disabled via switch
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)
Pointing / palm rest	**TrackPoint III**™ / integrated palm rest / ext keyboard support (with option cable)
Dimensions	11.7 x 8.3 x 2.14" (208)
Weight	6.7 pounds (3.05 kg)
Battery - type	Lithium Ion / intelligent *(optional NiMH battery supported)*
Battery - life (1 batt)	2.3 hours (4.6 hours with 2 batteries)
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32 bit / 33 MHz (EIDE, graphics, CardBus, ext expansion) Intel Mobile Triton 82430MX PCIset / TI PCI1130 for CardBus
Docking Station	Dock I and II / **SelectaDock I and II**
Port replicator	Port Replicator I and II / **SelectaDock Base Model I**
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III **/ CardBus 32 bit PCI** / PCMCIA 2.1 compatible
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot
Video in/out	None
MPEG decoder	None
DSP function	None
Data/fax modem	None
Audio support	**16 bit audio chip / 20 voice MIDI FM synthesis / ESS1688** Int stereo speakers / .5 watt / slide volume control / internal microphone
Jacks	Input jack (3.5 mm) / output jack (3.5 mm)
Telephone	None
Infrared ports	**Infrared ports (front and back) /** IrDA 1.0 compatible / up to 115 kbs
Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock / Personalization / Security Plate
Warranty	**3 year** - ThinkPad EasyServ (depot repair service) or carry-in

***Liftable (pop-up) keyboard* to access and remove diskette drive, 1st/2nd disk, and 1st/2nd battery, and other UltraBay options**

WINDOWS 95 PRELOAD

- Microsoft Windows 95 OSR2 (FAT16)
- Online User's Guide
- ThinkPad Features
- Diskette Factory

1. Lotus Organizer
2. CompuServ for Windows
3. Puma TranXit™
4. NetFinity for Windows 95
5. Triton CoSession™ Host
6. IntelliLink Connect
7. IBM AntiVirus
8. IBM Internet Connection Services with Netscape Navigator web browser
9. Registration Mailer

- Lotus SmartSuite 96 CD-ROM
- Recovery CD-ROM with boot diskette
- Windows 95 CD-ROM (no installation)

WINDOWS NT 4.0 PRELOAD

Microsoft Windows NT 4.0 Workstation with utilities and device drivers

ThinkPad 760XL supported batteries:

- 760 NiMH Battery (black)	41H9720
- Li-Ion Battery Pack II (gray)	29H9329
- Travel Quick Charger	85G1522
- Car Battery Adapter	49G2167

ThinkPad 760 supported disks:

- (360/750/755 IDE disks not supported)	
- 720 MB HDD II EIDE 12.5 mm	29H9383
- 810 MB HDD II EIDE 12.5 mm	29H9313
- 1.08 GB HDD II EIDE12.5 mm	29H9319
- 1.2 GB (1.96"+ models) 17 mm	29H9325
- 1.4 GB HDD 3L EIDE12.5 mm	69H8412
- 2.1 GB (1.96"+ models) 17 mm	69H8414
- 3.0 GB (1.96"+ models) 17 mm	45H8789
- 5.1 GB (1.96"+ models) 17 mm	00K7902

The left bay (UltraBay™) supports:
① 2nd disk (requires Second HDD Adapter)
② 2nd battery
③ Standard diskette drive
④ 2.88 MB diskette drive
⑤ CD-ROM

Maximum internal disk capacity on 760XL is 10.2 GB with two 5.1 GB disks

Easy-Setup is entered by holding F1 when turning on.

810 MB	= DMA Mode 2 or PIO Mode 4
1.08 GB	= DMA Mode 2 or PIO Mode 4
1.2 GB	= DMA Mode 1 or PIO Mode 3
1.35 GB	= DMA Mode 2 or PIO Mode 4
2.1 GB	= DMA Mode 2 or PIO Mode 4
3.0 GB	= DMA Mode 2 or PIO Mode 4
5.1 GB	= Ultra DMA/33 or PIO Mode 4

OPTIONS

- Second HDD Adapter	29H9333
- Dock I (1 slot / 1 bay)	3545001
- Dock II (2 slot / 2 bay)	3546001
- IDE Conversion Card (for Dock II)	46H5994
- SelectaDock I	**3547001**
- SelectaDock II	**3547002**
- SelectaDock III	**3547003**
- Port Replicator I (w/ PCMCIA slots)	66G3510
- Port Replicator II	66G3520
- SelectaDock Base Model I	**39H7405**
- 2.88 MB diskette	66G0108
- FDD External Attachment Kit	66G3618
- 35 watt AC Adapter (slim, 4 pin)	76H0119
- 4 x CD-ROM (UltraBay)	**39H7413**
- 6 x CD-ROM (UltraBay)	**85G1957**
- 8 x CD-ROM (UltraBay)	**45H8786**
- 8-20 x CD-ROM (UltraBay)	**00K7903**
- 8 MB SO DIMM 3.3v NP EDO 64 bit	**92G7340**
- 16 MB SO DIMM 3.3v NP EDO 64 bit	**92G7341**
- 32 MB SO DIMM 3.3v NP EDO 64 bit	**92G7342**
- 64 MB SO DIMM 3.3v NP EDO 64 bit	**76H0268**

FEATURES OF 760 MODELS

Quick Setup Guide (single page)
LCD indicator panel
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, safe suspend,and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
IBM SystemXtra Program
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).
❍ = Removable

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No warranties are expressed or implied in this summary
(760XL) Compiled by Roger Dodson, IBM. December 1997

IBM ThinkPad 760XD - withdrawn

IBM® ThinkPad®:	✂ **760XD** 12.1" XGA TFT - 8 x CD-ROM - Enhanced Video - MPEG
Processor type	**Pentium® MMX 166/66 MHz** (P55CLM) / 64 bit to L2 cache / 64 bit to memory
Processor upgrade	None
L2 cache	**256 KB** / write-back / direct mapped / 10 ns / synchronous pipelined burst
Removable diskette	3.5" 1.44 MB ❍ / use in UltraBay or attach externally via rear ext FDD port
External FDD port	External FDD port (includes Floppy Disk Drive Enclosure)
Removable CD-ROM	**5.25" CD-ROM ❍ / 8 x speed** / multi-session / XA / play with eject button EIDE / PIO Mode 3 (ATAPI) / in UltraBay which supports several devices
Type - model (code)	**9546-U9E** (Michigan MMX**)**
Preload (see side)	Windows 95 OSR2
Remv disk - size / ms	**3.0 GB** / 12 ms ❍ / DMA Mode 2 or PIO Mode 4 (C: is 1.99 GB, D: is 885 MB)
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / supports two internal disks for 10.2 GB
Avail / withdrawn date	April 1997 / January 1998
Display - size and type	**12.1 inch XGA color / 640 x 480, 800 x 600 or 1024 x 768 / 65,536 siml colors**
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9385 / 64 bit SVGA accelerator / **2 MB EDO DRAM** / 70 ns
Graph - arch/data path	PCI 2.1 / 32 bit / DCI, DirectDraw, EnDIVE support
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt
Graphics - external	External SVGA to 1280 x 1024 w/ 256 colors or 1024 x 768 w/ 65,536 colors
Memory - std / max	**32 MB** / 104 MB 70 ns / non-parity / 3.3v / EDO
Memory - upgrade	1 socket avail for one JEDEC 144 pin EDO SO-DIMM of 8, 16, 32, 64 MB
Mem - implementation	8 MB in system; 8 MB on memory module; 16 MB DIMM in 1 socket; 1 socket avail Memory module under disk (not removable) and accessible by opening the keyboard
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)
Pointing / palm rest	**TrackPoint III**™ / integrated palm rest
Ext keyboard support	Yes (with option cable)
Dimensions / weight	11.7 x 8.3 x 2.0" (194 cubic inches) / 7.0 pounds (3.18 kg) with CD-ROM
Battery - type	Lithium Ion / intelligent *optional NiMH*
Battery - life (1 batt)	2.0 hours (4 hrs with 2 batt)
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, MPEG, ext expansion) Intel Mobile Triton 82430MX PCIset / TI PCI1130 for CardBus
Port replicator	Port Replicator I and II / **SelectaDock Base Model I**
Docking Station	Dock I and II / **SelectaDock I and II and III**
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III **/ CardBus 32 bit PCI** / PCMCIA 2.1 compatible
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot
Video in/out	**Composite and S-Video in/out / game port**
MPEG decoder	**MPEG-1 & MPEG-2 Half Horizontal Resolution (HHR) decoder** (MPEGCD1)
DSP function	**Mwave MDSP2780 DSP with modem, fax, audio, telephony function**
Data/fax modem	**Data/fax modem function via DSP** (v.34 to 33.6 Kbps) / Mwave
Audio support	**16 bit audio chip on planar with Mwave DSP** **Int stereo speakers / .5 watt / slide volume control / internal microphone**
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / Joystick/MIDI port (includes cable)
Telephone	Telephone / answering machine / full duplex speakerphone / DSVD
Infrared ports	**Infrared ports (front and back) /** IrDA 1.0 compatible / up to 115 kbs
Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock / Personalization / Security Plate
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

The left bay (UltraBay™) supports:
① 2nd disk; ② 2nd battery
③ std diskette drive; ④ std CD-ROM
⑤ 2.88 MB diskette

***Liftable (pop-up) keyboard* to access and remove CD-ROM, diskette drive, 1st/2nd disk, and 1st/2nd battery**

Integrated Mwave™ DSP provides:

① **Data modem function**
- V.22bis, V.32, V.32bis, v.34 (28.8 Kbps)

② **Fax modem function**
- G3 fax send/receive (14.4 Kbps)

③ **Audio function**
- Stereo waveform record and playback
- Qsound support (3-D effect)
- 32 voice MIDI wave table synthesizer
- SoundBlaster support / text to speech
- MPEG audio decode

④ **Telephone function**
- Full telephone (can use opt headset)
- Telephone answering machine
- Full duplex speakerphone

⑤ **Digital Simultaneous Voice Data**

Easy-Setup is entered by holding F1 when turning on.

ThinkPad 760XD supported batteries:

- 760 NiMH Battery (black)	41H9720
- Li-Ion Battery Pack II (gray)	29H9329
- Travel Quick Charger	85G1522
- Car Battery Adapter	49G2167

ThinkPad 760 supported disks:

- (360/750/755 IDE disks not supported)

- 720 MB HDD II EIDE	12.5 mm	29H9383
- 810 MB HDD II EIDE	12.5 mm	29H9313
- 1.08 GB HDD II EIDE	12.5 mm	29H9319
- 1.2 GB (1.96"+ models)	17 mm	29H9325
- 1.4 GB HDD 3L EIDE	12.5 mm	69H8412
- 2.1 GB (1.96"+ models)	17 mm	69H8414
- 3.0 GB (1.96"+ models)	17 mm	45H8789
- 5.1 GB (1.96"+ models)	17 mm	00K7902

FEATURES OF 760 MODELS

Quick Setup Guide (single page)
LCD indicator panel
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
IBM SystemXtra Program
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

OPTIONS

- Second HDD Adapter	29H9333
- Dock I (1 slot / 1 bay)	3545001
- Dock II (2 slot / 2 bay)	3546001
- IDE Conversion Card (for Dock I/II)	46H5994
- **SelectaDock I**	**3547001**
- **SelectaDock II**	**3547002**
- **SelectaDock III**	**3547003**
- Port Replicator I (w/ PCMCIA slots)	66G3510
- Port Replicator II	66G3520
- **SelectaDock Base Model I**	**39H7405**
- 2.88 MB diskette drive	66G0108
- FDD External Attachment Kit	66G3618
- 35 watt AC Adapter (slim, 4 pin)	76H0119
- **4 x CD-ROM** (UltraBay)	**39H7413**
- **6 x CD-ROM** (UltraBay)	**85G1957**
- **8 x CD-ROM** (UltraBay)	**45H8786**
- **8-20 x CD-ROM** (UltraBay)	**00K7903**
- **8 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7340**
- **16 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7341**
- **32 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7342**
- **64 MB SO DIMM 3.3v NP EDO 64 bit**	**76H0268**
- Other options from ThinkPad Proven partners	

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
❍ = Removable

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No warranties are expressed or implied in this summary
(760XD) Compiled by Roger Dodson, IBM. December 1997

IBM ThinkPad 765L - withdrawn

IBM® ThinkPad®:	**765L** 13.3" XGA TFT
Processor type	**Pentium® MMX 166/66 MHz** (P55CLM) / 64 bit to L2 cache / 64 bit to memory
Processor upgrade	None
L2 cache	**256 KB** / write-back / direct mapped / 10 ns / synchronous pipelined burst
Removable diskette	3.5" 1.44 MB ❍ / use in UltraBay or attach externally via rear ext FDD port
External FDD port	External FDD port (requires FDD External Attachment Kit 66G3618)
Removable CD-ROM	None / **can upgrade to 4 x or 6 x or 8 x CD-ROM into UltraBay**
Type - model (code)	**9547-U9J**
Preload (see side)	**Windows 95 OSR2**
Avail / withdrawn date	June 1997 / July 1998
Remv disk - size / ms	**3.0 GB** / 12 ms ❍ / DMA Mode 2 or PIO Mode 4 (C: is 1.99 GB, D: is 885 MB)
Disk controller	EIDE / busmaster / PCI 2.1 / supports two internal disks / SMART
Display - size and type	**13.3 inch XGA color / 640 x 480, 800 x 600 or 1024 x 768 / 65,536 siml colors**
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9385 / 64 bit SVGA accelerator / **2 MB EDO DRAM** / 70 ns
Graph - arch/data path	PCI 2.1 / 32 bit / DCI, DirectDraw, EnDIVE support
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt
Graphics - external	External SVGA to 1280 x 1024 w/ 256 colors or 1024 x 768 w/ 65,536 colors
Memory - std / max	**32 MB** / 104 MB
Memory - sockets avail	1 socket available (1 socket uses 16 MB)
Memory - features	70 ns / non-parity / 3.3 volt / EDO / supports JEDEC 144 pin SO-DIMMs 8 MB in system; 8 MB on memory module with 2 SO-DIMM sockets Memory module under disk (not removable) and accessible by opening keyboard If use 64 MB SO-DIMM, the 8 MB on memory module is disabled via switch
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)
Pointing / palm rest	**TrackPoint III**™ / integrated palm rest / ext keyboard support (with option cable)
Dimensions	11.7 x 9.3 x 2.23" (243 cubic inches)
Weight	7.4 pounds (3.34 kg)
Battery - type	Lithium Ion / intelligent *(optional NiMH battery supported)*
Battery - life (1 batt)	2.1 hours (4.2 hours with 2 batteries)
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32 bit / 33 MHz (EIDE, graphics, CardBus, ext expansion) Intel Mobile Triton 82430MX PCIset / TI PCI1130 for CardBus
Docking Station	**SelectaDock I and II and III**
Port replicator	Port Replicator I and II / **SelectaDock Base Model I**
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III **/ CardBus 32 bit PCI** / PCMCIA 2.1 compatible
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / AC Adapter 4 pin 3 prong (56 watts) / Selectable boot
Video in/out	None
MPEG decoder	None
DSP function	None
Data/fax modem	None
Audio support	**16 bit audio chip / 20 voice MIDI FM synthesis / ESS1688** Int stereo speakers / .5 watt / slide volume control / internal microphone
Jacks	Input jack (3.5 mm) / output jack (3.5 mm)
Telephone	None
Infrared ports	**Infrared ports (front and back) /** IrDA 1.0 compatible / up to 115 kbs
Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock / Personalization / Security Plate
Warranty	**3 year** - ThinkPad EasyServ (depot repair service) or carry-in
Service options	On-site, M-F, 8-5, next bus day (71 cities) / Warranty extension to 5 years

***Liftable (pop-up) keyboard* to access and remove diskette drive, 1st/2nd disk, and 1st/2nd battery, and other UltraBay options**

WINDOWS 95 PRELOAD

- Microsoft Windows 95 OSR2 (FAT16)
- Online User's Guide
- ThinkPad Features
- Diskette Factory

1. Lotus Organizer
2. CompuServ for Windows
3. Puma TranXit™
4. NetFinity for Windows 95
5. Triton CoSession™ Host
6. IntelliLink Connect
7. IBM AntiVirus
8. IBM Internet Connection Services with Netscape Navigator web browser
9. Registration Mailer
10. ThinkPad on the NET
11. America Online

- Lotus SmartSuite 96 CD-ROM
- Recovery CD-ROM with boot diskette
- Windows 95 CD-ROM (no installation)

ThinkPad 765L supported batteries:

- 760 NiMH Battery (black)	41H9720
- Li-Ion Battery Pack II (gray)	29H9329
- Travel Quick Charger	85G1522
- Car Battery Adapter	49G2167

ThinkPad 760 supported disks:

- (360/750/755 IDE disks not supported)

- 720 MB HDD II EIDE	12.5 mm	29H9383
- 810 MB HDD II EIDE	12.5 mm	29H9313
- 1.08 GB HDD II EIDE	12.5 mm	29H9319
- 1.2 GB (1.96"+ models)	17 mm	29H9325
- 1.4 GB HDD 3L EIDE	12.5 mm	69H8412
- 2.1 GB (1.96"+ models)	17 mm	69H8414
- 3.0 GB (1.96"+ models)	17 mm	45H8789
- 5.1 GB (1.96"+ models)	17 mm	00K7902

The left bay (UltraBay™) supports:
① 2nd disk (requires Second HDD Adapter)
② 2nd battery
③ Standard diskette drive
④ 2.88 MB diskette drive
⑤ CD-ROM

Maximum internal disk capacity on 765L is 10.2 GB with two 5.1 GB disks

Easy-Setup is entered by holding F1 when turning on.

810 MB = DMA Mode 2 or PIO Mode 4
1.08 GB = DMA Mode 2 or PIO Mode 4
1.2 GB = DMA Mode 1 or PIO Mode 3
1.35 GB = DMA Mode 2 or PIO Mode 4
2.1 GB = DMA Mode 2 or PIO Mode 4
3.0 GB = DMA Mode 2 or PIO Mode 4
5.1 GB = Ultra DMA/33 or PIO Mode 4

- Second HDD Adapter	29H9333
- IDE Conversion Card (for Dock II)	46H5994
- SelectaDock I	**3547001**
- SelectaDock II	**3547002**
- SelectaDock III	**3547003**
- Port Replicator I (w/ PCMCIA slots)	66G3510
- Port Replicator II	66G3520
- SelectaDock Base Model I	**39H7405**
- 2.88 MB diskette	66G0108
- FDD External Attachment Kit	66G3618
- 56 watt AC Adapter (4 pin; 3 prong)	12J2456
- 6 x CD-ROM (UltraBay)	**85G1957**
- 8 x CD-ROM (UltraBay)	**45H8786**
- 8-20 x CD-ROM (UltraBay)	**00K7903**
- 8 MB SO DIMM 3.3v NP EDO 64 bit	**92G7340**
- 16 MB SO DIMM 3.3v NP EDO 64 bit	**92G7341**
- 16 MB SO DIMM NP EDO 64 bit (new)	**01K1124**
- 32 MB SO DIMM 3.3v NP EDO 64 bit	**92G7342**
- 64 MB SO DIMM 3.3v NP EDO 64 bit	**76H0268**
- PCMCIA 33.6 Kbps modem w/ XJACK	55H6759
- 56K PC Card Modem Kit	04K0052

FEATURES OF 765 MODELS

Quick Setup Guide (single page)
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Discharge battery via mouse click
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Personalization screen at startup
International Warranty Service
IBM System Care Program
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).
❍ = Removable

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No warranties are expressed or implied in this summary
(765L) Compiled by Roger Dodson, IBM. June 1998

IBM ThinkPad 765D - withdrawn

IBM® ThinkPad®:	**765D** 13.3" XGA TFT - 8 x CD-ROM - Enhanced Video - MPEG
Processor type	**Pentium® MMX 166/66 MHz** (P55CLM) / 64 bit to L2 cache / 64 bit to memory
Processor upgrade	None
L2 cache	**256 KB** / write-back / direct mapped / 10 ns / synchronous pipelined burst
Removable diskette	3.5" 1.44 MB ❍ / use in UltraBay or attach externally via rear ext FDD port
External FDD port	External FDD port (includes Floppy Disk Drive Enclosure)
Removable CD-ROM	**5.25" CD-ROM ❍ / 8 x speed** / multi-session / XA / play with eject button EIDE / PIO Mode 3 (ATAPI) / in UltraBay which supports several devices
Type - model (code)	**9546-U9H**
Preload (see side)	Windows 95 OSR2
Remv disk - size / ms	**3.0 GB** / 12 ms ❍ / DMA Mode 2 or PIO Mode 4 / SMART
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / supports two internal disks for 10.2 GB
Avail / withdrawn date	June 1997 / July 1997 (C: is 1.99 GB, D: is 885 MB)
Display - size and type	**13.3 inch XGA color / 640 x 480, 800 x 600 or 1024 x 768 / 65,536 siml colors**
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9385 / 64 bit SVGA accelerator / **2 MB EDO DRAM** / 70 ns
Graph - arch/data path	PCI 2.1 / 32 bit / DCI, DirectDraw, EnDIVE support
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt
Graphics - external	External SVGA to 1280 x 1024 w/ 256 colors or 1024 x 768 w/ 65,536 colors
Memory - std / max	**32 MB** / 104 MB 70 ns / non-parity / 3.3v / EDO
Memory - upgrade	1 socket avail for one JEDEC 144 pin EDO SO-DIMM of 8, 16, 32, 64 MB
Mem - implementation	8 MB in system; 8 MB on memory module; 16 MB DIMM in 1 socket; 1 socket avail Memory module under disk (not removable) and accessible by opening the keyboard
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)
Pointing / palm rest	**TrackPoint III**™ / integrated palm rest
Ext keyboard support	Yes (with option cable)
	The left bay (UltraBay™) supports: ① 2nd disk; ② 2nd battery ③ std diskette drive; ④ std CD-ROM ⑤ 2.88 MB diskette
Dimensions / weight	11.7 x 9.3 x 2.23" (243 cubic inches) / 7.7 pounds (3.49 kg) with CD-ROM
Battery - type	Lithium Ion / intelligent *optional NiMH*
Battery - life (1 batt)	2.0 hours (4 hrs with 2 batt)
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs
	***Liftable (pop-up) keyboard* to access and remove CD-ROM, diskette drive, 1st/2nd disk, and 1st/2nd battery**
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, MPEG, ext expansion) Intel Mobile Triton 82430MX PCIset / TI PCI1130 for CardBus
Port replicator	Port Replicator I and II / **SelectaDock Base Model I**
Docking Station	**SelectaDock I and II and III**
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III **/ CardBus 32 bit PCI** / PCMCIA 2.1 compatible
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / AC Adapter 4 pin 3 prong (56 watts) / Selectable boot
Video in/out	**Composite and S-Video in/out / game port**
MPEG decoder	**MPEG-1 & MPEG-2 Half Horizontal Resolution (HHR) decoder** (MPEGCD1)
DSP function	**Mwave MDSP2780 DSP with modem, fax, audio, telephony function**
Data/fax modem	**Data/fax modem function via DSP** (v.34 to 33.6 Kbps) / Mwave 2.21
Audio support	**16 bit audio chip on planar with Mwave DSP** **Int stereo speakers / .5 watt / slide volume control / internal microphone**
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / Joystick/MIDI port (includes cable)
Telephone	Telephone / answering machine / full duplex speakerphone / DSVD
Infrared ports	**Infrared ports (front and back) /** IrDA 1.0 compatible / up to 115 kbs
Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock / Personalization / Security Plate
Warranty	**3 year** - ThinkPad EasyServ (depot repair service) or carry-in
Service Options	On-site, M-F, 8-5, next bus day (71 cities) / Warranty extension to 5 years

Enhanced Video Card in 765D provides:

- **Composite in** and S-Video in (NTSC or PAL) for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay.
- **Composite out** and S-Video out to TV (connect to video out port; NTSC or PAL); or record on VCR the screen of ThinkPad.
- **Mini game port** for MIDI or joystick
- Includes video in and video out ports (includes one video in/out cable)
- Use software called Digital Video Producer™
- **Hardware acceleration** of 'Video for Windows'™ formerly done by a separate ASCII chip (as in 755CD and 760CD) has now been integrated into the 9385 graphics controller; interpolation in X and Y axis; color space conversion
- **Plays back MPEG motion videos, CD-I movies, video CD's, and Karaoke MPEG video titles**

- Second HDD Adapter	29H9333
- IDE Conversion Card (for Dock I/II)	46H5994
- SelectaDock I	**3547001**
- SelectaDock II	**3547002**
- SelectaDock III	**3547003**
- Port Replicator I (w/ PCMCIA slots)	66G3510
- Port Replicator II	66G3520
- SelectaDock Base Model I	**39H7405**
- 2.88 MB diskette drive	66G0108
- FDD External Attachment Kit	66G3618
- 56 watt AC Adapter (4 pin; 3 prong)	12J2456
- 4 x CD-ROM (UltraBay)	**39H7413**
- 6 x CD-ROM (UltraBay)	**85G1957**
- 8 x CD-ROM (UltraBay)	**45H8786**
- 8-20 x CD-ROM (UltraBay)	**00K7903**
- 8 MB SO DIMM 3.3v NP EDO 64 bit	**92G7340**
- 16 MB SO DIMM 3.3v NP EDO 64 bit	**92G7341**
- 16 MB SO DIMM NP EDO 64 bit (new)	**01K1124**
- 32 MB SO DIMM 3.3v NP EDO 64 bit	**92G7342**
- 64 MB SO DIMM 3.3v NP EDO 64 bit	**76H0268**
- PCMCIA 33.6 Kbps modem XJACK	55H6759
- 56K PC Card Modem Kit	04K0052

WINDOWS 95 PRELOAD

- Microsoft Windows 95 OSR2 (FAT16)
- Online User's Guide
- ThinkPad Features Program
- Diskette Factory Utilities

1. Lotus Organizer
2. CompuServ for Windows
3. Puma TranXit™
4. NetFinity for Windows 95
5. Triton CoSession™ Host
6. SofNet FaxWorks™ Voice
7. Asymetrix® Digital Video Producer
8. IntelliLink Connect
9. IBM AntiVirus
10. IBM Internet Connection Services with Netscape Navigator web browser
11. Registration Mailer
12. ThinkPad on the NET
13. America Online

- MPEG Sampler CD-ROM
- Lotus SmartSuite 96 CD-ROM
- Recovery CD-ROM with boot diskette
- Windows 95 CD-ROM (no installation)

Integrated Mwave DSP provides:

① **Data modem function**
- V.22bis, V.32, V.32bis, v.34 (28.8 Kbps)

② **Fax modem function**
- G3 fax send/receive (14.4 Kbps)

③ **Audio function**
- Stereo waveform record and playback
- Qsound support (3-D effect)
- 32 voice MIDI wave table synthesizer
- SoundBlaster support / text to speech
- MPEG audio decode

④ **Telephone function**
- Full telephone (can use opt headset)
- Telephone answering machine
- Full duplex speakerphone

⑤ **Digital Simultaneous Voice Data**

Easy-Setup is entered by holding F1 when turning on.

ThinkPad 765D supported batteries:

- 760 NiMH Battery (black)	41H9720
- Li-Ion Battery Pack II (gray)	29H9329
- Travel Quick Charger	85G1522
- Car Battery Adapter	49G2167

ThinkPad 765 supported disks:

- 720 MB HDD II EIDE	12.5 mm	29H9383
- 810 MB HDD II EIDE	12.5 mm	29H9313
- 1.08 GB HDD II EIDE	12.5 mm	29H9319
- 1.2 GB (1.96"+ models)	17 mm	29H9325
- 1.4 GB HDD 3L EIDE	12.5 mm	69H8412
- 2.1 GB (1.96"+ models)	17 mm	69H8414
- 3.0 GB (1.96"+ models)	17 mm	45H8789
- 5.1 GB (1.96"+ models)	17 mm	00K7902

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IBM System Care Program
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).
❍ = Removable

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(765D) Compiled by Roger Dodson, IBM. June 1998

IBM ThinkPad® 770 - withdrawn

IBM® ThinkPad®:

Processor type/path	**Pentium® MMX™ 200/66 or 233/66MHz**[1] (Tillamook) / 64bit to L2 and memory				
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Intel MMO				
L2 cache	**512KB** / write-back / direct mapped / 7ns data; 15ns tag / sync pipelined burst				
Diskette (removable)	3.5" 1.44MB / in encased enclosure / use in UltraBay II or attach externally				
External FDD port	External diskette port (use std cable to attach diskette drive externally)				
CD-ROM (removble)	*Option:* **5.25" CD-ROM / 20X-8X**[5] **or 24X-10X**[5] **speed** / CAV / bootable / hot swapping EIDE (ATAPI) / PIO Mode 4 for W95; DMA Mode 2 for NT / use in UltraBay II				
DVD (removable)	*Option:* **DVD-ROM drive /** 8 x to 16 x spd / CAV / use in UltraBay II / (DVD5/4.7GB) requires *DVD and Enhanced Video Adapter* for movie playback / sw enb AC-3 port				
Type - model	**9548-40U**	**9548-30U**	**9548-31U**	**9549-1AU**	**9548-32U** (AAP)
Processor	**200/66MHz**	**233/66MHz**	**233/66MHz**	**233/66MHz**	**233/66MHz**
Display (diagonal)	**13.3" XGA**	**13.3" XGA**	**13.3" XGA**	**14.1" XGA**	**13.3" XGA**
Disk (removable)	**3.2GB**[4] / PIO4	**4GB** / PIO4	**4GB** / DMA33	**5.1GB** / PIO4	None
Preload (see side)	**W95 OSR2**	**W95 OSR2**	**NT 4.0 SP3**	**W95 OSR2**	Blank (no disk)
DVD and Enh Vid Ad	Optional	Optional	Optional	**Standard**	Optional
Modem	Opt PC Card	Opt PC Card	Opt PC Card	**33.6Kbps** (upg)	Opt PC Card
Avail / withdrawn date	October 1997 / September 1998				
Memory - std / max	**32MB** / 256MB[3] non-parity / 3.3v / **SDRAM** / 83 or 100MHz				
Memory - upgrade	2 sockets available for two JEDEC 144 pin EDO or SDRAM SO-DIMMs Sockets accessed by removing screw on bottom / can mix SDRAM w/ 760-supported EDO				
Display - size (colors)	**XGA color / 640 x 480 (16M), 800 x 600 (16M), or 1024 x 768 (65,536 siml colors**)				
Display - techology	**Active Matrix TFT -** 100 to 1 contrast ratio / 180 degree tilt				
Graphics - controller	**Trident™ CYBER9397** / 64-bit SVGA accelerator / **2MB SGRAM** / 83MHz				
Graphics - arch	PCI 2.1 / Direct3D, DirectDraw, DirectVideo, ActiveMovie support / ZV interface				
Graphics - features	**3D hardware accelerator** / interpolation in X and Y axis / color space conversion				
Graphics - external	External SVGA to 1280 x 1024 w/ 256 colors (75Hz) or 1024 x 768 w/ 65,536 colors				
Disk (removable)	Left side / removable via 3 methods: latch, coin screw, security tool / SMART				
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / 430TX South Bridge / PIIX4 / supports two internal disks (16.2GB max) / DMA Mode 2, Ultra DMA/33, or PIO Mode 4				
Keyboard / Fn keys	Full size alp/num / 7 Fn key functions / integrated palm rest				
Keyboard slope	Flat keyboard (does not lift up) / rear legs pop up (5.5 degrees slope)				
Pointing device	**TrackPoint®** / Press-to-Select / Release-to-Select / dragging / click pace/ center click button for scrolling or magnifying glass / suspension top				
Dimensions	*1AU:* 12.3 x 10 x 2.2" (270 cubic in) / 7.8 pounds (3.55 kg) with battery/diskette				
Weight[2]	*Others:* 12.3 x 9.5 x 2.2" (257 cubic inches) / 7.4 pounds (3.35 kg) with batt/diskette				
Battery - type	Lithium Ion / intelligent / left side				
Battery - life (1 batt)	*1AU:* 3.5 hrs (7 hrs with second battery in UltraBay II) / *Others:* 4 hrs (8 hr w/ 2 batt)				
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs				
Architecture	ISA (audio, modem, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32-bit / 33Mhz (EIDE, graphics, CardBus, MPEG, USB, ext expansion) **Intel 430TX PCIset** / TI PCI1250 for CardBus / LM75 digital thermometer				
Port replicator	**SelectaBase 770** / PC Card Enabler				
Docking Station	**SelectaDock III / SelectaDock I and II**				
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III **/ CardBus 32-bit PCI** / PCMCIA 2.1 / Zoomed Video				
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)				
Other features	APM-aware BIOS / AC Adapter barrel, 3 prong (56 watts) / Selectable boot				
Video in/out	*1AU or option:* Video in/out (composite and S-Video) / SAA7111A NTSC/PAL				
MPEG decoder	*1AU or option:* MPEG-2 / IBM MPEGCD1M / 2MB SDRAM; 100MHz				
Data/fax modem	*1AU:* 33.6Kbps (56Kbps upgradeable via x2[8]) / 14.4Kbps fax / telephony / integrated Mwave® 3780i DSP / international programmable DAA				
Audio support	16-bit / CS4237B / **SRS 3D audio** / FM synthesis / software decodes AC3 into stereo Int stereo speakers (front) **/ 1 watt /** rotary volume control (right) **/** int microphone				
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / full duplex				
Infrared ports	Infrared ports (front and back) / IrDA 1.1 compatible / **up to 4Mbps**				
Security	Power-on password / Hard disk password / Supervisor password / security keyhole / personalization / phillips-head screws on base for battery and UltraBay II bays				
Limited warranty[11]	**3 year** - ThinkPad EasyServ (depot repair service) or carry-in / international				
Service options[15]	On-site, M-F, 8-5, next bus day (72 cities) / warranty extension to 5 years				

DVD and Enhanced Video Adapter provides (standard in 1AU; optional all others):

- **MPEG-1, MPEG-2 HHR, and full MPEG-2 hardware decoder** (audio decoded via software)
- **DVD movie playback** (MPEG-2 decoding; decryption and audio decoding via software)
- **Video in** (composite and SVHS) (NTSC or PAL) for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay
- **Video out** (composite and SVHS) to TV (connect to video out port; NTSC or PAL); or record on VCR the screen of ThinkPad
- **Dolby® Digital AC-3**[6] (outputs undecoded Dolby Digital signal from AC-3 connector; CSA8404A); requires external AC3 decoder/amplifier
- **Three ports** - ① video in, ② video out, ③ AC-3
- Includes video in/out cable

-	5.1GB disk, 12ms, Ultra DMA/33	11J8947
-	8.1GB disk, 12ms, Ultra DMA/33	02K0517
-	2nd Disk Adapter (for 760/770 disks)	11J8836
-	**SelectaBase 770**	**83H6735**
-	SelectaDock I[18]	3547001
-	SelectaDock II[18]	3547002
-	**SelectaDock III**[18]	**3547003**
-	**SelectaBase PC Card Enabler**	**83H6741**
-	**760 UltraBay Tray for SD III**	**11J8839**
-	56 watt AC Adapter (barrel; 3 prong)	83H6739
-	**20X-8X CD-ROM Drive** (UltraBay II)	11J8933
-	**24X-10X CD-ROM Drive** (UltraBay II)	02K0516
-	**DVD CD-ROM Drive** (UltraBay II)	11J8950
-	DVD and Enh Video Adapter	11J8957
-	**16MB SO DIMM 3.3v NP SDRAM**	**76H0293**
-	**32MB SO DIMM 3.3v NP SDRAM**	**76H0294**
-	**64MB SO DIMM 3.3v NP SDRAM**	**76H0295**
-	56K PC Card Modem Kit	04K0052
-	ThinkPad 770 Li-Ion Battery	83H6738

WINDOWS 95 PRELOAD[16]

- Microsoft® Windows® 95 OSR2 (FAT16)
- Online User's Guide
- ThinkPad Configuration Program
- Diskette Factory Utilities
1. Puma TranXit; 2. IBM AntiVirus
3. Asymetrix Digital Video Producer (1AU)
4. RingZero Ring Central (1AU only)
5. Intelliquest Registration Mailer
6. Voyetra Audiostation
7. Artisoft ConfigSafe
8. IBM Internet Connection services with Netscape Navigator web browser
9. Intel® LANDesk® Client Manager
10. Intel Video Phone (receive) (1AU only)
11. ThinkPad PointCast
12. NetMeeting™ 2.0
13. Ergonomics; 14.ThinkPad on the NET
15. NetFinity for Windows 95
- Recovery CD-ROM with boot diskette
- Windows 95 CD-ROM (no installation)
- Internet Explorer 4.0 CD-ROM

WINDOWS NT 4.0 PRELOAD

- Windows NT® Workstation (FAT16)
- Advanced NT extensions:
  - Power management
  - UltraBay Plug and Play
  - DVD (storage only; no DVD movies)
  - Hot Plug PC Card; MPEG-2 playbck
  - 3D graphics (OpenGL)
  - Video capture
- Online User's Guide
- ThinkPad Configuration Program
1. IBM AntiVirus
2. IBM Internet Connection services with Netscape Navigator web browser
3. Intel LANDesk Client Manager

The right bay (UltraBay™ II) has LED on release latch to provide status; it supports hot swapping; it supports:
① std diskette; ② optional DVD drive; ③ optional CD-ROM; ④ optional 2nd disk; ⑤ optional 2nd battery; ⑥ optional ThinkPad Proven™ VST Zip™ 100 drive;

Easy-Setup is entered by holding F1 when turning on.

Screens are 150 nits (90 nits on battery)

ThinkPad 770 supported disks:
- **3.2GB** 13ms read/14ms write 17 mm PIO Mode 4 or DMA Mode 2
- **4.0GB** 13ms read/14ms write 12.5 mm PIO Mode 4 or Ultra DMA/33
- **5.1** and **8.1GB** 12ms read/13ms write 17 mm PIO Mode 4 or Ultra DMA/33
- All 760 supported disks (requires opt adaptr)

FEATURES OF 770 MODELS

Wired for Management 1.1a
PC 97 compliant
DMI 1.1 compliant
DMI instrumentation (thermal monitoring)
Wake-on-LAN via SelectaDock III
C: is 1.99 GB, D: is up to 1.99 GB, etc.
Quick Setup Guide (single page)
LCD indicator panel
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, safe suspend, and hibernation modes
ENERGY STAR compliant
International Warranty Service[14]
IBM SystemXtra™
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support
IBM and dealer warranty/service

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).

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IBM ThinkPad® 770E and 770ED - withdrawn

IBM® ThinkPad®:	770E	770E	770ED	770E (AAP)
Processor type/path	**Pentium® II 266/66MHz**[1] (Deschutes) / 64-bit to L2 and memory			
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Intel MMO			
L2 cache	**512KB** / write-back / 4 way set associative/ sync pipelined burst / ECC / 133MHz			
Diskette (removable)	3.5" 1.44MB / in encased enclosure / use in UltraBay II or attach externally			
External FDD port	External diskette port (use std cable to attach diskette drive externally)			
CD-ROM (removble)	*Option:* **5.25" CD-ROM / 24X-10X**[5] **speed** / CAV / bootable / hot swap EIDE (ATAPI) / PIO Mode 4 for W95; DMA Mode 2 for NT / use in UltraBay II			
DVD-ROM (remvble)	*Std or option:* **DVD drive /** 8 x to 16 x spd / CAV / use in UltraBay II / (DVD5/4.7GB) requires *DVD and Enhanced Video Adapter* for movie playback / sw enb AC-3 port			
Type - model	**9548-51U**	**9548-52U**	**9549-5AU**	**9548-53U** (AAP)
Display (diagonal)	**14.1" TFT XGA**	**14.1" TFT XGA**	**14.1" TFT XGA**	**14.1" TFT XGA**
Disk (removable)	**5.1GB**[4] / PIO4	**5.1GB** / DMA33	**8.1GB** / PIO4	None
DVD-ROM drive	Optional	Optional	**Standard DVD**	Optional
Preload (see side)	**W95 OSR2.1**	**NT 4.0**	**W95 OSR2.1**	Blank (no disk)
DVD and Enh Vid Ad	Optional	Optional	**Standard**	Optional
Modem	Opt PC Card	Opt PC Card	**56Kbps**	Opt PC Card
Avail / withdr date	April 1998 / December 1998			
Memory - std / max	**32MB** / 288MB[3]	**32MB** / 288MB[3]	**64MB** / 288MB[3]	**32MB** / 288MB[3]
Memory - upgrade	**SDRAM** / 83 or 100MHz / non-parity / 3.3v / 2 sockets available for two JEDEC 144 pin SDRAM SO-DIMMs / sockets accessed by removing screw on bottom			
Display - size (colors)	**XGA color** / 640x480, 800x600, or **1024x768 (16 million simultaneous colors)**			
Display - techology	**Active Matrix TFT -** 100 to 1 contrast / 150 nits (AC) / 90 nits (batt) / 180 degree tilt			
Graphics - controller	**Trident™ CYBER9397E** / 64-bit accelerator / **4MB SGRAM** / 83MHz			
Graphics - arch	PCI 2.1 / Direct3D, DirectDraw, DirectVideo, DirectX 5.0 support / ZV interface			
Graphics - features	**3D hardware accelerator** / interpolation in X and Y axis / color space conversion			
Graphics - external	External SVGA to 1280x1024 w/ 64K colors (85Hz) or 1024x768 w/ 16M colors			
Disk (swappable)	Left side / removable via 3 methods: latch, coin screw, security tool / SMART			
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / 430TX South Bridge / PIIX4 / supports two internal disks (16.2GB max) / DMA Mode 2, Ultra DMA/33, or PIO Mode 4			
Keyboard / Fn keys	Full size alp/num / 7 Fn key functions / integrated palm rest			
Keyboard slope	Flat keyboard (does not lift up) / rear legs pop up (5.5 degrees slope)			
Pointing device	**TrackPoint®** / Press-to-Select / Release-to-Select / dragging / click pace/ center click button for scrolling or magnifying glass / suspension top / spare caps			
Dimensions	12.3 x 10 x 2.2" (270 cubic in) / *5AU:* 7.8 pounds (3.5 kg) with battery/diskette			
Weight[2]	*Others:* 7.6 pounds (3.45 kg) with battery/diskette			
Battery - type	Lithium Ion / intelligent / left side			
Battery - life[10] (1 batt)	3.5 hrs (7 hrs with second battery in UltraBay II)			
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs			
Architecture	**Intel 440BX PCIset** / TI® PCI1250A for CardBus / LM75 digital thermometer PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, CardBus, MPEG, USB, ext expansion) PC97338 Super I/O / ISA (audio, modem, diskette, serial, parallel, infrared, ext exp)			
Port replicator	**SelectaBase 770** / PC Card Enabler[18] / PC Card Enabler with Adv EtherJet[18]			
Docking Station	**SelectaDock III / SelectaDock I and II**			
PC Card Std slots	2 Type 1, 2 Type II, or 1 Type III / **CardBus** / PCMCIA 2.1 / Zoomed Video			
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)			
Other features	APM-aware BIOS / AC Adapter barrel, 3 prong (56 watts) / Selectable boot			
Video in/out	*5AU or option:* Video in/out (composite and S-Video) / SAA7111A NTSC/PAL			
MPEG decoder	*5AU or option:* MPEG-2 / IBM MPEGCD1M / 2MB SDRAM; 100MHz			
Data/fax modem	*5AU:* 56Kbps (x2, upgradeable to v.90[8]) / 14.4Kbps fax / telephony / integrated Mwave® 3780i DSP / international programmable DAA			
Audio support	16-bit / CS4237B / **SRS 3D audio** / FM synthesis / software decodes AC3 into stereo			
	Int stereo speakers (front) **/ 1 watt /** rotary volume control (right) **/** int microphone			
Jacks	Input jack (3.5 mm) / output jack (3.5 mm) / full duplex			
Infrared ports	Infrared ports (front and back) / IrDA 1.1 compatible / **up to 4Mbps**			
Security	Power-on password / hard disk password / supervisor password / security keyhole / personalization / phillips-head screws on base for battery and UltraBay II bays			
Limited warranty[11]	**3 year** - ThinkPad EasyServ[31] (door-to-door depot repair service) or carry-in Rapid Depot Repair (12 hr service from arrival time for 3 bus day average turnaround)			
Service options[15]	On-site[32], M-F, 8-5, next bus day (71 cities) / serv up to 5 yrs from purchase date			

WINDOWS 95 PRELOAD[16]

- Microsoft® Windows® 95 OSR2.1 (FAT16)
- Online User's Guide
- ThinkPad Customization Center
- ThinkPad Configuration Program
- SystemSoft CardWorks
- Diskette Factory Utilities
- Puma IntelliSync 97; 2. IBM AntiVirus
- Asymetrix Digital Video Producer (5AU)
- RingZero Ring Central (5AU only)
- Intelliquest Registration Mailer
- Voyetra Audiostation
- ConfigSafe
- IBM Internet Connection services with Netscape Navigator web browser
- Intel® LANDesk® Client Manager
- Intel Video Phone (receive) (5AU only)
- ThinkPad PointCast
- Ergonomics
- ThinkPad on the NET
- NetFinity for Windows 95

✧ Recovery CD-ROM with boot diskette
✧ Customization CD-ROM (apps/drivers)

WINDOWS NT 4.0 PRELOAD

- Windows NT® Workstation (FAT16)
- Service Pack 3
- Internet Explorer 4.01
- Advanced NT extensions
- Online User's Guide
- ThinkPad Configuration Program
- SystemSoft CardWizard
- IBM AntiVirus
- IBM Internet Connection services with Netscape Navigator web browser
- Intel LANDesk Client Manager
- Artisoft ConfigSafe
- Puma IntelliSync 97

✧ Customization CD-ROM (apps/drivers)

The right bay (UltraBay™ II) has LED on release latch to provide status; it supports hot swapping; it supports:
① std diskette; ② optional DVD drive; ③ optional CD-ROM; ④ optional 2nd disk; ⑤ optional 2nd battery; ⑥ optional ThinkPad Proven™ VST Zip™ 100 drive

ThinkPad 770 supported disks:

- **3.2GB** 13ms read/14ms write 17 mm PIO Mode 4 or DMA Mode 2
- **4.0GB** 13ms read/14ms write 12.5 mm PIO Mode 4 or Ultra DMA/33
- **5.1GB** 12ms read/13ms write 17 mm PIO Mode 4 or Ultra DMA/33
- **8.1GB** 12ms read/13ms write 17 mm PIO Mode 4 or Ultra DMA/33

- All 760 supported disks (requires opt adaptr)

DVD and Enhanced Video Adapter (DEVA) provides (standard in 5AU; optional all others):

- **MPEG-1, MPEG-2 HHR, and full MPEG-2 hardware decoder** (audio decoded via software)
- **DVD movie playback** (MPEG-2 decoding; decryption and audio decoding via software)
- **Video in** (composite and SVHS) (NTSC or PAL) for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay
- **Video out** (composite and SVHS) to TV (connect to video out port; NTSC or PAL); or record on VCR the screen of ThinkPad
- **Dolby® Digital AC-3**[6] (outputs undecoded Dolby Digital signal from AC-3 connector; CSA8404A); requires external AC3 decoder/amplifier
- **Three ports** - ① video in, ② video out, ③ AC-3
- Includes video in/out cable

- 5.1GB disk, 12ms, Ultra DMA/33	11J8947
- 8.1GB disk, 12ms, Ultra DMA/33	02K0517
- 2nd Disk Adapter (for 760/770 disks)	11J8836
- **SelectaBase 770**	**83H6735**
- **SelectaDock III**[18]	**3547003**
- **PC Card Enabler with EtherJet**[18]	**05K4820**
- **760 UltraBay Tray for SD III**	**11J8839**
- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- **20X-8X CD-ROM Drive** (UltraBay II)	11J8933
- **24X-10X CD-ROM Drive** (UltraBy II)	02K0516
- **DVD Drive** (UltraBay II)	05K8886
- DVD and Enh Video Adapter	11J8957
- **16MB SO DIMM 3.3v NP SDRAM**	**76H0293**
- **32MB SO DIMM 3.3v NP SDRAM**	**76H0294**
- **64MB SO DIMM 3.3v NP SDRAM**	**76H0295**
- 900MHz Cordless Comp Connection	04K0064
- V.90 PC Card Modem with XJACK[24]	10L7393
- ThinkPad 770 Li-Ion Battery	83H6738
- External Battery Charger	11J8985

PC 97 compliant
DMI 2.0 compliant
DMI instrumentation (thermal monitoring)
ACPI ready (APM enabled)
Wired for Management 1.1a compliant
Wake on LAN™ support[28]
C: is 1.99G, D: up to 1.99G (FAT32), etc.
Setup Guide, User's Guide, Up and Running,Windows 95 manual
LCD indicator panel
Plug and Play 1.0a
Non-disruptive battery exchange
Standby, suspend, safe suspend, and hibernation modes
ENERGY STAR compliant
International Warranty Service[14]
IBM SystemXtra™
24 hour / 7 day telephone[30], bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

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IBM ThinkPad® 770X - withdrawn

IBM® ThinkPad®:	770X	770X	770X	770X	770X (AAP)
Processor	**Intel® Mobile Pentium® II 300MHz**[1] / 66MHz system bus				
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Mobile Module				
L2 cache	**512KB** / write-back / 4 way set associative/ sync pipelined burst / ECC / 150MHz				
Diskette (removable)	3.5" 1.44MB / in encased enclosure / use in UltraBay™ II or attach externally				
External FDD port	External diskette port (use std cable to attach diskette drive externally)				
CD-ROM (removble)	*Std or option:* **CD-ROM** / 24X-10X[5] speed / bootable / hot swap/ use in UltraBay II				
DVD-ROM (remvble)	*Std or option:* **2X**[5] **DVD drive** / 16X-8X[5] speed / CAV / use in UltraBay II				
Type - model	**9549-71U**	**9549-72U**	**9549-7AU**	**9549-7BU**	**9549-73U**(AAP)
Preload (see side)	**Windows 98**	**NT 4.0**	**Windows 98**	**NT 4,0**	**Blank** (no disk)
DVD or CD-ROM	**DVD-ROM**	**CD-ROM**	**DVD-ROM**	**CD-ROM**	**Optional**
Display (diagonal)	**14.1" TFT XGA (1024x768)**		**13.7" TFT SXGA (1280x1024)**		**14.1" TFT XGA**
Disk (removable)	**8.1GB**[4] / 12ms read / 13ms write				**None**
Avail / withdr date	October 1998 / June 1999				
Memory - std / max	**64MB** / 320MB[21]		**128MB** / 320MB[21]		**64MB** / 320MB[21]
Available sockets	2 available sockets		1 socket (one used by 64MB)		2 available
Memory - features	**SDRAM** / 66MHz / non-parity / 3.3v / sockets accessed by removing screw on bottom 64MB on motherboard and 2 sockets for two JEDEC 144-pin SDRAM SO-DIMMs				
Display - size	**14.1"** (358mm) **color / 1024x768**		**13.7"** (348mm) **SXGA color / 1280x1024**		
Display - colors	**16.7 million simultaneous colors**		**65,536 simultaneous colors**		
Display - techology	**Active Matrix TFT** / 180 degree tilt				
Graphics - controller	**Trident™ CYBER9397DVD** / **Accelerated Graphics Port** / 64-bit accelerator				
Graphics - arch	**4MB SGRAM** / 83MHz		**8MB SGRAM** / 83MHz		**4MB SGRAM**
Graphics - features	**3D hardware accelerator** / AGP-1x / sideband / **motion compensation** / Direct3D				
Graphics - external	External SVGA to 1280x1024 w/ 64K colors (85Hz) / multiple-monitor support[26]				
Disk (swappable)	Left side / removable via 3 methods: latch, coin screw, security tool / SMART				
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / PIIX4E / supports two internal disks / DMA Mode 2, Ultra DMA/33, or PIO Mode 4				
Keyboard / Fn keys	Full size alp/num keys / 7 Fn key functions / integrated palm rest				
Keyboard slope	Flat keyboard (does not lift up) / rear legs pop up (5.5 degrees slope)				
Pointing device	**TrackPoint®** / Press-to-Select / Release-to-Select / dragging / click pace/ center click button for scrolling or magnifying glass / suspension top / spare caps				
Dimensions / weight[2]	12.3 x 10 x 2.2" (270 cubic in) / *14.1" mod:* 7.57 lbs (3.43 kg) with battery/diskette *13.7" mod:* 7.63 lbs (3.46 kg) with battery/diskette				
Battery - type	Lithium Ion / intelligent / left side				
Battery - life[10] (1 batt)	3.5 hrs (7 hrs with second battery in UltraBay II)				
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs				
Architecture	**Intel 440BX AGPset** / Intel 82371EB **PIIX4E** (EIDE, ISA Bridge, USB) / TI® PCI1251 for CardBus / AGP for graphics / LM75 digital thermometer PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, audio, USB, ext expansion) PC97338 Super I/O / ISA (audio, modem, diskette, serial, parallel, infrared, ext exp)				
Port replicator	**SelectaBase 770** / PC Card Enabler[18] / PC Card Enabler with Adv EtherJet[18]				
Docking Station	**SelectaDock III / SelectaDock I and II**				
PC Card Std slots	2 Type 1, 2 Type II, or 1 Type III / **CardBus** / PCMCIA 2.1 / Zoomed Video				
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)				
Other features	APM-aware BIOS / AC Adapter barrel, 3 prong (56 watts) / Selectable boot				
Video in/out	*Option on DEVA:* Video in/out (composite and S-Video) / SAA7111A NTSC/PAL				
MPEG	Software support for MPEG-2[27] because 300MHz with motion compensation				
Data/fax modem	**56Kbps** (x2, upgradeable to v.90[8]) / voice-capable / integrated Mwave® 3780i DSP / international programmable DAA				
Audio support	CS4239: ISA / SRS 3D audio / FM synthesis / 16-bit playback and record CS4610: PCI / decodes AC3 into stereo / MPEG-2 audio decoding / accel of DirectX Int stereo speakers (front) / 1 watt / rotary volume control (right) / int microphone				
Jacks	Input jack (3.5 mm) / output jack (3.5 mm) / full duplex				
Infrared ports	Infrared ports (front and back) / IrDA 1.1 compatible / up to 4Mbps				
Security	Power-on password / hard disk password / supervisor password / security keyhole / personalization / phillips-head screws on base for battery and UltraBay II bays				
Limited warranty[11]	**3 year** - carry-in or ThinkPad EasyServ™[31] Rapid Depot Repair (3 business day average turnaround				
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date				

Optional **DVD and Enhanced Video Adapter (DEVA)** 10L1228 provides:

- **MPEG-1, MPEG-2 HHR, and full MPEG-2**[27] **hardware decoder** (audio decoded via software); IBM MPEGCD1M / 2MB SDRAM; 100MHz
- **DVD movie playback**[27] (MPEG-2 decoding; decryption and audio decoding via software)
- **Video in** (composite and SVHS) (NTSC or PAL) for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay
- **Video out** (composite and SVHS) to TV (connect to video out port; NTSC or PAL); or record on VCR the screen of ThinkPad
- **Dolby® Digital AC-3**[6] (outputs undecoded Dolby Digital signal from AC-3 connector; CSA8404A); requires external AC3 decoder/amplifier
- **Three ports** - ① video in, ② video out, ③ AC-3

- 5.1GB disk, 12ms, Ultra DMA/33	11J8947
- 8.1GB disk, 12ms, Ultra DMA/33	02K0517
- 14.1GB disk, 12ms, Ultra DMA/33	02K0526
- 2nd Disk Adapter (for 760/770 disks)	11J8836
- **SelectaBase 770**	**83H6735**
- **SelectaDock III**[18]	**3547003**
- **PC Card Enabler with EtherJet™**[18]	**05K4820**
- **760 UltraBay Tray for SD III**	**11J8839**
- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- **24X-10X CD-ROM Drive** (UltraBy II)	02K0516
- **2X DVD Drive** (UltraBay II)	05K8886
- DVD and Enh Video Adapter (DEVA)	10L1228
- **32MB SO DIMM 3.3v NP SDRAM**	**76H0294**
- **64MB SO DIMM 3.3v NP SDRAM**	**20L0241**
- **128MB SO DIMM 3.3v NP SDRAM**	**01K1150**
- V.90 PC Card Modem with XJACK[24]	10L7393
- ThinkPad 770 Li-Ion Battery	83H6738
- External Battery Charger	11J8985

WINDOWS 98 PRELOAD[16]

- Microsoft® Windows® 98
- Online User's Guide
- ThinkPad Configuration Program
- ThinkPad Utilities
- IBM Registration
- Puma IntelliSync 97
- Norton AntiVirus
- Mediamatics DVD Express
- Artisoft ConfigSafe
- IBM Global Network Dialer
- Netscape Navigator web browser
- ThinkPad on the Net
- Ring Central
- Intel Video Phone
- Ergonomics
- Update Connector

✧ Recovery CD-ROM (with boot diskette)
✧ Customization CD-ROM (apps/drivers)

WINDOWS NT 4.0 PRELOAD[16]

- Windows NT® Workstation 4.0
- Service Pack 3
- Internet Explorer 4.01
- Advanced NT extensions
- Online User's Guide
- ThinkPad Utilities
- ThinkPad Configuration Program
- Norton AntiVirus (OEM Version)
- IBM Global Network Dialer
- Netscape Navigator web browser
- Ergonomics
- IBM Registration
- SystemSoft CardWizard
- ConfigSafe
- Puma IntelliSync 97

✧ Recovery CD-ROM (with boot diskette)
✧ Customization CD-ROM (apps/drivers)

All models:
- C: drive is FAT16 of 2GB
- D: drive is FAT32 (if W98) or FAT16 (if NT) of remaining space

The right bay (UltraBay™ II) has LED on release latch to provide status; supports hot swapping:

- std diskette
- std or optional DVD drive
- std or optional CD-ROM
- optional 2nd disk
- optional 2nd battery (requires adapter; cold swap only)
- optional ThinkPad Proven™ VST Zip™ 100 drive or SuperDisk (LS-120) drive (cold swap only)

ThinkPad 770 supported disks:

- **3.2GB** 13ms read/14ms write 17 mm
- **4.0GB** 13ms read/14ms write 12.5 mm
- **5.1GB** 12ms read/13ms write 17 mm
- **8.1GB** 12ms read/13ms write 17 mm
- All 760 supported disks (requires opt adaptr)

PC 97 compliant
DMI 2.0 compliant
DMI instrumentation (thermal monitoring)
ACPI ready (APM enabled)
Wired for Management 1.1a compliant
Wake on LAN® support[28]
Setup Guide, User's Guide, Windows 98 or NT manual
LCD indicator panel
Plug and Play 1.0a
Non-disruptive battery exchange
Standby, suspend, safe suspend, and hibernation modes
ENERGY STAR compliant
International Warranty Service[14]
IBM SystemXtra®[,35]
24 hour / 7 day telephone[30], bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

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IBM ThinkPad® 770Z - withdrawn

IBM® ThinkPad®:	770Z	770Z	770Z	770Z	770Z (AAP)
Processor	**Intel® Mobile Pentium® II 366MHz**[1] / 66MHz system bus				
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Mobile Module				
L2 cache	**256KB / onboard (full speed)** / sync pipelined burst / write-back / ECC				
Diskette (removable)	3.5" 1.44MB / in encased enclosure / use in UltraBay™ II or attach externally				
External FDD port	External diskette port (use std cable to attach diskette drive externally)				
CD-ROM (removble)	*Std or option:* **CD-ROM** / 24X-10X[5] speed / bootable / hot swap/ use in UltraBay II				
DVD-ROM (remvble)	*Std or option:* **2X**[5] **DVD drive** / use in UltraBay II / CD-ROM speed of 16X-8X[5]				
Type - model	**9549-81U**	**9549-82U**	**9549-8AU**	**9549-8BU**	**9549-83U** (AAP)
Preload (see side)	**Windows 98**	**NT 4.0**	**Windows 98**	**NT 4,0**	**Blank** (no disk)
DVD or CD-ROM	**DVD-ROM**	**CD-ROM**	**DVD-ROM**	**CD-ROM**	**Optional**
Display (diagonal)	**14.1" TFT XGA (1024x768)**		**13.7" TFT SXGA (1280x1024)**		**14.1" TFT XGA**
Disk (removable)	**14.1GB**[4] / 12ms / 4902rpm / PIO4 or Ultra DMA/33 / 17mm high				**None**
Avail / withdrawn	February 1999 / December 1999				
Memory - std / max	**128MB** / 320MB[21]				
Available sockets	1 available socket (one used by 64MB SO-DIMM)				
Memory - features	**SDRAM** / 66MHz / non-parity / 3.3v / sockets accessed by removing screw on bottom 64MB on motherboard and 2 sockets for two JEDEC 144-pin SDRAM SO-DIMMs				
Display - size	**14.1"** (358mm) **color / 1024x768**		**13.7"** (348mm) **SXGA color / 1280x1024**		
Display - colors	**16.7 million simultaneous colors**		**65,536 simultaneous colors** at 1280x1024		
Display - technology	**Active Matrix TFT** / 180 degree tilt				
Graphics - controller	**Trident™ CYBER9397DVD** / **Accelerated Graphics Port** / 64-bit accelerator				
Graphics - arch	**4MB SGRAM** / 83MHz		**8MB SGRAM** / 83MHz		**4MB SGRAM**
Graphics - features	**3D hardware accelerator** / AGP-1x / sideband / **motion compensation**				
Graphics - external	External SVGA to 1280x1024 w/ 64K colors (85Hz) / multiple-monitor support[26]				
Disk (swappable)	Left side / removable via 3 methods: latch, coin screw, security tool / SMART[29]				
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / PIIX4E / supports two internal disks / DMA Mode 2, Ultra DMA/33, or PIO Mode 4				
Keyboard / Fn keys	Full size alp/num keys / 7 Fn key functions / integrated palm rest				
Keyboard slope	Flat keyboard (does not lift up) / rear legs pop up (5.5 degrees slope)				
Pointing device	**TrackPoint®** / Press-to-Select / Release-to-Select / dragging / click pace/ center click button for scrolling or magnifying glass / suspension top / spare caps				
Dimensions / weight[2]	12.3 x 10 x 2.2" (270 cubic in) / *14.1" mod:* 7.79 lbs (3.53 kg) with battery/DVD *13.7" mod:* 7.85 lbs (3.56 kg) with battery/DVD				
Battery - life[10] (1 batt)	4.0 hrs (8 hrs with second battery in UltraBay II) / lithium Ion / intelligent / left side				
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs				
Architecture	**Intel 440BX AGPset** / Intel 82371EB **PIIX4E** (EIDE, ISA Bridge, USB) / TI® PCI1251 for CardBus / AGP for graphics / LM75 digital thermometer PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, audio, USB, ext expansion) PC97338 Super I/O / ISA (audio, modem, diskette, serial, parallel, infrared, ext exp)				
Port replicator	**SelectaBase 770** / PC Card Enabler[18] / PC Card Enabler with Adv EtherJet[18]				
Docking Station	**SelectaDock III[18] / SelectaDock I and II**				
PC Card Std slots	2 Type 1, 2 Type II, or 1 Type III / **CardBus** / PCMCIA 2.1 / Zoomed Video				
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)				
Other features	APM-aware BIOS / AC Adapter barrel, 3 prong (56 watts) / Selectable boot				
Video in/out	*Option on DEVA:* Video in/out (composite and S-Video) / SAA7111A NTSC/PAL				
MPEG-2 playback[27]	*W98 models:* Full MPEG-2 playback *NT models:* Optional via DEVA				
DVD movie playback[34]	*W98 models:* Yes *NT models:* No (limitation of NT)				
Data/fax modem	**56K**[22] / V.90 / integrated Mwave® 3780i DSP / voice-capable / international programmable DAA				
Audio support	CS4239: ISA / SRS 3D audio / FM synthesis / 16-bit playback and record CS4610: PCI / decodes AC3 into stereo / MPEG-2 audio decoding / accel of DirectX Int stereo speakers (front) / 1 watt / rotary volume control (right) / int microphone				
Jacks	Input jack (3.5 mm) / output jack (3.5 mm) / full duplex				
Infrared ports	Infrared ports (front and back) / IrDA 1.1 compatible / up to 4Mbps				
Security	Power-on password / hard disk password / supervisor password / security keyhole / personalization / phillips-head screws on base for battery and UltraBay II bays				
Limited warranty[11]	**3 year** - carry-in or ThinkPad EasyServ[31] Rapid Depot Repair (3 business day average turnaround)				
Service options[15]	On-site[32], M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date				

Optional **DVD and Enhanced Video Adapter (DEVA)** 10L1228 provides:

- **MPEG-1, MPEG-2 HHR, and full MPEG-2**[27] **hardware decoder** (audio decoded via software); IBM MPEGCD1M / 2MB SDRAM; 100MHz
- **DVD movie playback**[27] (MPEG-2 decoding; decryption and audio decoding via software)
- **Video in** (composite and SVHS) (NTSC or PAL) for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay
- **Video out** (composite and SVHS) to TV (connect to video out port; NTSC or PAL); or record on VCR the screen of ThinkPad
- **Dolby® Digital AC-3**[6] (outputs undecoded Dolby Digital signal from AC-3 connector; CSA8404A); requires external AC3 decoder/amplifier
- **Three ports** - ① video in, ② video out, ③ AC-3

- 5.1GB disk, 12ms, Ultra DMA/33	11J8947
- 8.1GB disk, 12ms, Ultra DMA/33	02K0517
- 14.1GB disk, 12ms, Ultra DMA/33	02K0526
- 2nd Disk Adapter (for 760/770 disks)	11J8836
- SelectaBase 770	83H6735
- SelectaDock III[18]	3547003
- PC Card Enabler[18]	83H6741
- PC Card Enabler with EtherJet[18]	05K4820
- 760 UltraBay Tray for SD III	11J8839
- Ultraslim 56 watt AC Adpter (3 prong)	02K6545
- 24X-10X[5] CD-ROM Drive (UltraBy II)	02K0516
- 2X[5] DVD Drive (UltraBay II)	05K8886
- DVD and Enh Video Adapter (DEVA)	10L1228
- 32MB SO DIMM 3.3v NP SDRAM	76H0294
- 64MB SO DIMM 3.3v NP SDRAM	20L0241
- 128MB SO DIMM 3.3v NP SDRAM	01K1150
- V.90 PC Card Modem with XJACK[24]	10L7393
- ThinkPad 770 Li-Ion Battery	83H6738

WINDOWS 98 PRELOAD[16]

- Microsoft® Windows® 98
- Online User's Guide
- ThinkPad Configuration Program
- ThinkPad Utilities
- IBM Registration
- Puma IntelliSync 97
- Norton AntiVirus (OEM Version)
- Mediamatics DVD Express (DVD mod)
- ConfigSafe
- IBM Global Network Dialer
- Netscape Communicator
- Universal Management Agent
- Access ThinkPad
- ThinkPad on the Net
- RingCentral
- Intel Video Phone
- IBM Update Connector

✧ Software Selections CD-ROM
✧ Recovery CD-ROM (Windows 98)
✧ Recovery CD-ROM (Windows 95)[7]

WINDOWS NT 4.0 PRELOAD[16]

- Windows NT® Workstation 4.0
- Service Pack 4a
- Online User's Guide
- ThinkPad Utilities
- ThinkPad Configuration Program
- Norton AntiVirus (OEM Version)
- IBM Global Network Dialer
- Netscape Communicator
- Universal Management Agent
- Access ThinkPad
- IBM Update Connector
- IBM Registration
- SystemSoft CardWizard
- ConfigSafe
- Puma IntelliSync 97

✧ Software Selections CD-ROM
✧ Recovery CD-ROM (Windows NT)

All models:
- C: drive is FAT16 of 2GB
- D: drive is FAT32 (if W98) or FAT16 (if NT) of remaining space

The right bay (UltraBay™ II) has LED on release latch to provide status; supports hot swapping:

- std diskette
- std or optional DVD drive
- std or optional CD-ROM
- optional 2nd disk
- optional 2nd battery (requires adapter; cold swap only)
- optional ThinkPad Proven™ VST Zip™ 100 drive or SuperDisk (LS-120) drive (cold swap only)

PC 97 compliant
DMI 2.0 compliant
DMI instrumentation (thermal monitoring)
ACPI ready (APM enabled)
Wired for Management 1.1a compliant
Wake on LAN® support[28]
Setup Guide, User's Guide, Windows 98 or NT manual
LCD indicator panel
Plug and Play 1.0a
Non-disruptive battery exchange
Standby, suspend, safe suspend, and hibernation modes
ENERGY STAR compliant
Asset ID wireless RF technology (available only as an AAP option on the 770Z model 83U; Atmel® AT24RF08 EEPROM)
International Warranty Service[14]
IBM SystemXtra®[,35]
24 hour / 7 day[30] telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

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IBM ThinkPad Power Series 820 - withdrawn

IBM® ThinkPad®:	⋊ **820** PowerPC - TFT color - CD-ROM
Processor type	**Power PC 603e** / 100/33 MHz / 32 KB L1 cache
L2 cache	256 KB / write through / 2 way associative / 32 bit transfers
Processor / L2 upgrade	None
Removable diskette	Internal or external 3.5" 1.44 MB ❍ / external diskette drive connector Can use diskette and CD-ROM simultaneously as diskette drive ships with an external case with cable
Removable CD-ROM	**5.25" CD-ROM** ❍ / double speed / multi-session / XA / SCSI-2 / bootable The middle bay supports either the standard diskette drive or standard CD-ROM
Type - model	6040-xxx (listed below)
Available date	July 1995 or later (listed below)
Disk controller	SCSI-2 Fast (for disk, CD-ROM) / external SCSI-2 50 pin connector
Removable disk - size	*Choice:* **540 MB** 14 ms ❑ ❍ **/ 810 MB** 14 ms ❑ ❍ / **1.2 GB** 12 ms ❍
Display - type	*Choice:* Color 640 x 480 or Color 800 x 600 (listed below)
Display - techology	**Black Matrix TFT - active matrix / up to 65,536 simultaneous colors**
Display - diagonal size	10.4 inch / 100 to 1 contrast ratio for 640 x 480 / 110 to 1 for 800 x 600
Graphics - controller	WD90C24A Rev C with 1 MB DRAM (called G10 Graphics Adapter)
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 w/ 256 colors (up to 75 Hz)
Graph - arch/data path	PCI 2.0 / 32 bit / Simultaneous LCD and CRT / 180 degree tilt
Video function	*Some:* **Video acceleration / composite in/out** (called G10 Graphics with Motion Video Adapter) with Personal Conferencing for AIX CD-ROM
Memory - std / max	16 or 32 MB / 48 MB 70 ns / **parity** / 5 volt / 32 bit transfers
Mem - sockets	Standard: 1 or 2 SO DIMMs; available: 2 or 1 SO DIMM sockets (16 MB
Mem-options available	8, 16 MB JEDEC 72 pin SO DIMMs DIMM(s) std)
Keyboard / # of keys	Full size alp/num / 84 (no Fn key) Easy-Setup is entered by holding F1 when power on
Keyboard slope	**Palm rest space**
Mouse/pointing	**TrackPoint III**™
Ext keyboard support	Yes (with option cable)
Dimensions	11.7 x 8.3 x 2.2" (213 cubic inches)
Color	Black
Weight (with battery)	7.5 pounds (with CD-ROM)
Battery - type	Nickel hydride (NiMH) / intelligent
Battery - life	2 to 5 hours
Charge time - on / off	2.0 hrs / 1.5 hrs
Architecture	PCI 2.0 / 32 bit / 33 MHz / 5 volt (SCSI, motion video) ISA (audio, PCMCIA, diskette, serial, parallel, 120-pin external expansion) VL-Bus 2.0 / 32 bit (graphics via PCI-to-VL Bridge)
Docking Station	None
Port replicator	None
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III
Serial / parallel ports	One 9 pin; 16550A / Enhanced Parallel Port (EPP and IEEE 1284)
Other features	Universal AC adapter, 50 watts, not wallmount / Drive Startup Sequence
Data/fax modem	None (use PCMCIA)
Audio support	**CD quality audio (44.1 kHz, 16 bit, stereo)** / Crystal Semiconductor™ CS4231 Internal stereo speakers (.5 watt each) / dial volume control Internal microphone / IBM Personal Microphone (earphone and headset)
Audio in/out jacks	Input jack / output jack
Infrared ports	None
Security	Power-on password / Supervisor password / Hardware security loop (locking lever) / Keyboard lock / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / PCMCIA card lock
Preinstalled software	*Choice:* none or select a supported operating system (listed on side)
Warranty	**3 year** - ThinkPad EasyServ
Warranty options	ThinkPad EasyServ Overnight Repair Option

ALL 820 MODELS

***Liftable (pop-up) keyboard* to access and remove CD-ROM, diskette drive, disk, battery, and memory**

ThinkPad Power Series 820 strengths:

- **PowerPC performance**
- **AIX or NT preloaded (or no operating sys)**
- **Removable, double speed, 5.25" CD-ROM**
- **Standard or optional Video Card (acceleration, composite video in/out)**

Operating System preloads:

① IBM AIX Version 4 for Clients 4.1.3
- Ultimedia Services Ver 2.1.2
- Insignia SoftWindows Ver 1.1
- Speech Dictation
- Personal Conferencing for AIX (some mod)
- Essentials! (catalogs and support)
- Power, Performance, Potential multimedia presentation
- CD-ROMs included: Program Pack, AIX backup, Pers Conferencing for AIX(some)
- Black 3 button mouse

② Microsoft Windows NT 3.51 Workstation
- Essentials! (catalogs and support)
- Power, Performance, Potential presenta
- Compuserve WinCIM Power Series Ed
- Introducing ThinkPad Power Series 820
- CD-ROMs included: Program Pack, NT backup

③ No preloaded operating system
- CD-ROMs included: Program Pack, Pers Conferencing for AIX (some mod)

④ IBM OS/2 Warp Connect (when available)

⑤ Solaris (when available)

G10 Graphics with Motion Video Adapter (some models) provides:

- **Acceleration** of motion video with scaling (no interpolation) of image. Video may be scaled up to full screen without frame rate degradation
- **Composite in** (from camcorder, TV, VCR) for video capture (capture and digitize video), still image capture (capture and digitize still photo images), and overlay (view video on LCD without capturing it to disk). Uses NTSC or PAL
- **Composite out** (to camcorder, TV, VCR) in NTSC.
- Includes a cable with in/out RCA jacks to connect to the "integrated video connector" on back of unit

Options for ThinkPad Power Series 820:

- Disks:	540 MB SCSI-2	30H1388
	810 MB SCSI-2	30H1392
	1.2 GB SCSI-2	30H1467
- AC Adapter 50 watts		30H1403
- 820 Travel Quick Charger		30H1373
- 820 NiMH Battery Pack		30H1369
- IBM Personal Microphone		12H1504
- 8 MB SO DIMM parity		92G7255
- 16 MB SO DIMM parity		92G7257

Type-Model	Part	Mem	Disk	LCD	Graphics	Op Sys	Price	Avail
⋊ 6040-OCD	30H1553	**32 MB**	1.2 GB	800x600	G10	None	$ 7,999	Aug 95
⋊ 6040-ODD	30H1554	**32 MB**	1.2 GB	800x600	G10	AIX	8,799	Aug 95
⋊ 6040-OED	30H1555	**32 MB**	1.2 GB	800x600	G10	NT	8,299	Aug 95
⋊ 6040-06D	30H1477	32 MB	810 MB	800x600	G10	None	7,549	Jul 95
⋊ 6040-07D	30H1478	32 MB	810 MB	800x600	G10	AIX	8,399	Jul 95
⋊ 6040-08D	30H1480	32 MB	810 MB	800x600	G10	NT	7,849	Jul 95
⋊ 6040-966	30H1482	16 MB	810 MB	640x480	G10 w/ Motion	None	6,449	Jul 95
⋊ 6040-986	30H1484	16 MB	810 MB	640x480	G10 w/ Motion	NT	6,749	Jul 95
⋊ 6040-977	30H1486	**32 MB**	810 MB	640x480	G10 w/ Motion	AIX	8,399	Jul 95
⋊ 6040-006	30H1487	16 MB	540 MB	640x480	G10	None	5,699	Jul 95
⋊ 6040-026	30H1489	16 MB	540 MB	640x480	G10	NT	5,999	Jul 95
⋊ 6040-017	30H1491	**32 MB**	540 MB	640x480	G10	AIX	7,649	Jul 95

FEATURES OF 820 MODELS

Battery life and other indicators
Non-disruptive battery exchange
Suspend mode
US EPA Energy Star compliant
Personalized nameplate in molded indention
Compatible with PowerPC Reference Platform™ Specifications (PReP) v1.1
3 year warranty
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, and electronic support
IBM warranty/service
30 day money back guarantee

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99

❑ = Upgradeable; ❍ = Removable; ⋊ = Withdrawn effective March 20, 1996

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No warranties are expressed or implied in this summary

(820) Compiled by Roger Dodson, IBM. February 1996

IBM ThinkPad Power Series 850 - withdrawn

IBM® ThinkPad®:	⋋ **850** PowerPC - TFT color - CD-ROM - Video Card
Processor type	**Power PC 603e** / 100/66 MHz / 32 KB L1 cache
L2 cache	256 KB / write back / direct mapped / 64 bit transfers
Processor / L2 upgrade	None
Removable diskette	Internal or external 3.5" 1.44 MB ❍ / external diskette drive connector Can use diskette and CD-ROM simultaneously as diskette drive ships with an external case with cable
Removable CD-ROM	**5.25" CD-ROM** ❍ / double speed / multi-session / XA / SCSI-2 / bootable The middle bay supports either the standard diskette drive or standard CD-ROM
Type - model	6042-xxx (listed below)
Available date	July 1995 or later (listed below)
Disk controller	SCSI-2 Fast (for disk, CD-ROM) / external SCSI-2 50 pin connector
Removable disk - size	*Choice:* **540 MB** 14 ms ❑ ❍ **/ 810 MB** 14 ms ❑ ❍ / **1.2 GB** 12 ms ❍
Display - type	*Choice:* Color 640 x 480 or Color 800 x 600 (listed below)
Display - techology	**Black Matrix TFT - active matrix** / up to 65,536 simultaneous colors
Display - diagonal size	10.4 inch / 100 to 1 contrast ratio for 640 x 480 / 110 to 1 for 800 x 600
Graphics - controller	WD90C24A Rev C with 1 MB DRAM (called G10 Graphics Adapter)
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 w/ 256 colors (up to 75 Hz)
Graph - arch/data path	PCI 2.0 / 32 bit / Simultaneous LCD and CRT / 180 degree tilt
Video function	**Video acceleration / composite in/out** (called G10 Graphics with Motion Video)
Video camera	*Option:* CCD camera on top of LCD / NTSC / white balance, iris, lens focus
Memory - std / max	16 or 32 MB / 80 to 96 MB 70 ns / **parity** / 5 volt / 64 bit transfers
Mem - sockets	Standard: 2 SO DIMMs in 2 SO DIMM sockets; available: 2 IC DRAM sockets
Mem-options available	4, 8, 16, 32 MB IC DRAMs / must be installed in matched pairs
Keyboard / # of keys	Full size alp/num / 84 (no Fn key)
Keyboard slope	Yes (legs pop out) / **palm rest space**
Mouse/pointing	**TrackPoint III**™
Ext keyboard support	Yes (with option cable)
Dimensions	11.7 x 10.2 x 2.4" (286 cubic inches)
Color	Black
Weight (with battery)	7.96 pounds (with CD-ROM)
Battery - type	Nickel hydride (NiMH) / Intelligent
Battery - life	2 to 5 hours
Charge time - on / off	2 hrs / 1.5 hrs
Architecture	PCI 2.0 / 32 bit / 33 MHz / 5 volt (SCSI, motion video) ISA (audio, PCMCIA, diskette, serial, parallel, 120-pin external expansion) VL-Bus 2.0 / 32 bit (graphics via PCI-to-VL Bridge)
Docking Station	None
Port replicator	None
PCMCIA™ 2.1 slots	**2 Type I or 2 Type II or 1 Type III**
Serial / parallel ports	One 9 pin; 16550A / Enhanced Parallel Port (EPP and IEEE 1284)
Other features	Universal AC adapter, 50 watts, not wallmount / Drive Startup Sequence
Data/fax modem	None (use PCMCIA) / voice-over-data using industry standard modems
Audio support	**CD quality audio (44.1 kHz, 16 bit, stereo)** / Crystal Semiconductor™ CS4231 Internal stereo speakers (1 watt each) / dial volume control Internal microphone / IBM Personal Microphone (earphone and headset)
Audio in/out jacks	Input jack / output jack / line in / line out (all 3.5 mm)
Infrared ports	None
Security	Power-on password / Supervisor password / Hardware security loop (locking lever) / Keyboard lock / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / PCMCIA card lock
Preinstalled software	*Choice:* none or select a supported operating system (listed below)
Warranty	**3 year** - ThinkPad EasyServ
Warranty options	ThinkPad EasyServ Overnight Repair Option

Easy-Setup is entered by holding F1 when power on

ALL 850 MODELS

***Liftable (pop-up) keyboard* to access and remove CD-ROM, diskette drive, disk, and memory**

(Battery removed from side)

Type-Model	Part	Mem	Disk	LCD	Graphics	Op Sys	Price	Avail
⋋6042-9CD	29H8170	32 MB	1.2 GB	800x600	G10 w/ Motion	None	$ 8,999	Aug 95
⋋6042-9DD	29H8171	32 MB	1.2 GB	800x600	G10 w/ Motion	AIX	9,849	Aug 95
⋋6042-9ED	29H8173	32 MB	1.2 GB	800x600	G10 w/ Motion	NT	9,299	Aug 95
⋋6042-96D	29H8196	32 MB	810 MB	800x600	G10 w/ Motion	None	8,549	Jul 95
⋋6042-97D	29H8197	32 MB	810 MB	800x600	G10 w/ Motion	AIX	9,399	Jul 95
⋋6042-98D	29H8199	32 MB	810 MB	800x600	G10 w/ Motion	NT	8,849	Jul 95
⋋6042-967	29H8175	32 MB	810 MB	640x480	G10 w/ Motion	None	8,149	Jul 95
⋋6042-977	29H8176	32 MB	810 MB	640x480	G10 w/ Motion	AIX	8,999	Jul 95
⋋6042-987	29H8178	32 MB	810 MB	640x480	G10 w/ Motion	NT	8,449	Jul 95
⋋6042-906	29H8180	16 MB	540 MB	640x480	G10 w/ Motion	None	6,669	Jul 95
⋋6042-926	29H8182	16 MB	540 MB	640x480	G10 w/ Motion	NT	6,999	Jul 95

Compatible in 820 and 850: ① Disks, ② CD-ROM, ③ AC Adapter

ThinkPad Power Series 850 strengths:

- **PowerPC performance**
- **Collaborative and conversational computing**
- **Removable, double speed, 5.25" CD-ROM**
- **Video card (acceleration, composite video)**
- **Optional top mounted video camera**

Operating System Preloads:

① IBM AIX Version 4 for Clients 4.1.3
- Ultimedia Services Ver 2.1.2
- Insignia SoftWindows Ver 1.1
- Speech Dictation
- Personal Conferencing for AIX on CD
- Essentials! (catalogs and support)
- Power, Performance, Potential multimedia presentation
- CD-ROMs included: Program Pack, AIX backup, Pers Conferencing for AIX
- Black 3 button mouse

② Microsoft Windows NT 3.51 Workstation
- Essentials! (catalogs and support)
- Power, Performance, Potential presenta
- Compuserve WinCIM Power Series Ed
- Introducing ThinkPad Power Series 850
- CD-ROMs included: Program Pack, NT backup

③ No preloaded operating system
- CD-ROMs included: Program Pack, Personal Conferencing for AIX

④ IBM OS/2 Warp Connect (when available)

⑤ Solaris (when available)

G10 Graphics with Motion Video provides:
- **Acceleration** of motion video with scaling (no interpolation) of image. Video may be scaled up to full screen without frame rate degradation
- **Composite in** (from camcorder, TV, VCR) for video capture (capture and digitize video), still image capture (capture and digitize still photo images), and overlay (view video on LCD without capturing it to disk). Uses NTSC or PAL
- **Composite out** (to camcorder, TV, VCR) in NTSC. So can use TV as an external display or record the contents of the screen to VCR
- ThinkPad 850 includes in/out RCA jacks on the back of the system

Options for ThinkPad Power Series 850:

- Disks: 540 MB SCSI-2	30H1388
810 MB SCSI-2	30H1392
1.2 GB SCSI-2	30H1467
- AC Adapter 50 watts	30H1403
- Video Camera (NTSC)	**85G2715**
- 850 NiMH Battery Pack	85G2671
- 850 Quick Charger	85G2662
- IBM Personal Microphone	12H1504
- 4 MB IC DRAM 70ns 5v parity	92G7238
- 8 MB IC DRAM 70ns 5v parity	92G7241
- 16 MB IC DRAM 70ns 5v parity	92G7234
- 32 MB IC DRAM 70ns 5v parity	92G7235

FEATURES OF 850 MODELS

Battery life and other indicators
Non-disruptive battery exchange
Suspend mode
US EPA Energy Star compliant
Personalized nameplate in molded indention
Compatible with PowerPC Reference Platform™ Specifications (PReP) v1.1
3 year warranty
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, and electronic support
IBM warranty/service
30 day money back guarantee

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.

❑ = Upgradeable; ❍ = Removable; ⋋ = Withdrawn effective March 20, 1996

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(850) Compiled by Roger Dodson, IBM. February 1996

[1] MHz only measures microprocessor internal clock speed (or bus speed where indicated), not application performance. Other factors also affect application performance.

[2] Unless otherwise indicated, weight includes battery (and travel cover on ThinkPad 600) and excludes external diskette, CD, and/or DVD drives if applicable; actual weight may vary due to vendor components, manufacturing process and options.

[3] Current available memory options allow memory expansion up to 160MB using two 64MB SDRAM SO DIMMs in the two available slots for memory expansion. Memory expansion beyond 160MB will depend on the availability of memory options larger than 64MB built to IBM ThinkPad 600-770 specifications and such availability cannot be assured. EDO memory is not supported in ThinkPad 770E/ED models.

[4] GB means billion bytes when referring to hard drive capacity. Accessible capacity varies.

[5] Variable read rate. Actual playback speed will vary and is often less than the maximum possible.

[6] DVD drive required for ThinkPad 770 models (standard in some models). For Dolby Digital output, the 'DVD and Enhanced Video Adapter' (11J8957) must be installed (standard in some models) and the ThinkPad notebook connected to appropriate receiver and external speakers.

[7] ThinkPad notebooks are delivered with Windows 98 preloaded on the hard disk drive and a Windows 98 Recovery CD in the box. For customers who prefer Windows 95, a Windows 95 Recovery CD is also included for installation of Windows 95. Installation of Windows 95 results in removal of the Windows 98 preload.

[8] Upgrade on 9549-1AU (770) and -5AU (770ED) and 770X via Internet software download at no additional charge (Internet access fees excepted). Software upgrade via the Internet to the V.90 56K ITU standard beginning in 4Q98. Subject to change without notice. x2 modems are designed to be capable of receiving data at up to 56Kbps from an x2-compatible service provider, and transmitting data at up to 31.2Kbps. Public networks currently limit maximum download speeds to about 53Kbps. Actual speeds depend on many factors and are often less than the maximum possible.

[9] Software upgrade via the Internet to the V.90 56K ITU standard beginning 4Q98. Subject to change without notice.

[10] Results obtained using BAPCo (Business Applications Performance Corporation) SYSmark Benchmark Test. Battery life and recharge times will vary based on many factors including screen brightness, applications, features, power management, battery conditioning and other customer preferences. Battery life may be less using Windows NT.

[11] For terms and conditions or a copy of IBM's Statement of Limited Warranty, call 1 800 772-2227 in the U.S. and in Canada, call 1 800 426-2255.

[12] IBM makes no warranties, expressed or implied regarding ThinkPad Proven products and services, including Year 2000 readiness and any implied warranties of merchantability and fitness for a particular purpose.

[13] If you qualify and subject to condition.

[14] Available in those countries where IBM and IBM resellers sell and service ThinkPad products. Registration required. Service level is based on the standard service for ThinkPad notebooks in that particular country.

[15] Service options available based on specific ThinkPad notebook purchased; not all machine types and models are eligible, other limitations apply. Call 1800 426-3395 and request document #11008 or call your IBM authorized reseller for additional information. Service options must be purchased during the original product warranty period.

[16] Some software may differ from its retail version (if any) and may not include user manuals or all program functionality. Warranty, service and support for non-IBM products are provided directly to you by third parties, not IBM. IBM makes no representations or warranties regarding non-IBM products. For non-IBM software applicable third-party software licenses may apply.

[17] SelectaDock III, PC Card Enabler, and/or PC Card Enabler with Advanced EtherJet Feature requires optional SelectaBase 600

[18] SelectaDock III, PC Card Enabler, and/or PC Card Enabler with Advanced EtherJet Feature requires optional SelectaBase 770.

[19] On ThinkPad 600, DVD drive supports standard CD-ROM and data-only DVD discs. DVD movie playback requires an optional third-party DVD PC Card adapter. DVD movie playback not supported with Windows NT.

[20] Lotus SmartSuite may be preinstalled or provided on CD-ROM depending on the model. Diskettes and hard copy documentation are available at an extra charge.

[21] The IBM ThinkPad 770X is designed to recognize up to 320MB of addressable memory with the new Mobile Pentium II processor at 300MHz. 64MB or 128MB of new, fast SDRAM SO DIMM system memory (RAM) is standard, depending on model. Current available memory options allow memory expansion up to 320MB using two 128MB SDRAM SO DIMMs in the two user accessible slots for memory expansion. On models with the 13.7-inch display, one of these slots is currently occupied with a 64MB SDRAM that provides the standard 128MB of system memory. This 64MB SDRAM would have to be removed and replaced with a 128MB SDRAM to achieve the 320MB maximum.

[22] These 56K V.90 modems are designed to be capable of receiving data at up to 56Kbps from a compatible service provider, and transmitting data at up to 31.2Kbps. Public networks currently limit maximum download speeds to about 53Kbps. Actual speeds depend on many factors and are often less than the maximum possible.

[23] x2 modems are designed to be capable of receiving data at up to 56Kbps from an x2-compatible service provider, and transmitting data at up to 31.2Kbps. Public networks currently limit maximum download speeds to about 53Kbps. Actual speeds depend on many factors and are often less than the maximum possible.

[24] Designed to be capable of receiving at up to 56kbps with x2 or V.90 compatible phone line and server equipment, and transmitting at up to 31.2kbps. Public networks currently limit download speeds to about 53kbps. Actual speeds vary and are often less than the maximum.

[25] For ThinkPad 600 or 600E, to achieve 288MB memory configuration on models with 64MB standard, you need to replace one 32MB SDRAM SO DIMM in the memory slot with 128MB SDRAM SO DIMM and add a second 128MB SDRAM SO DIMM.

[26] Multiple monitor support gives you the ability to expand your ThinkPad desktop area by attaching an external monitor or second display, allowing you to view two different applications running simultaneously. External device must support the same maximum resolution and refresh rate as that of the built-in notebook display. Available video memory may limit resolution and/or color depth. Individual application support for this feature will vary.

[27] Software-supported MPEG-2 playback is supported on ThinkPad 770X and 770Z models with Windows 98. Software-supported MPEG-2 playback and support for video capture on Windows NT models requires the optional 'DVD and Enhanced Video Adapter'.

[28] For ThinkPad 770, IBM Wake on LAN support available via the optional SelectaBase 770 and PC Card Enabler with Advanced EtherJet Feature or SelectaDock III and a Wake on LAN network interface card. For ThinkPad 600, IBM Wake on LAN support available via the optional SelectaBase 600 and PC Card Enabler with Advanced EtherJet Feature or SelectaDock III and a Wake on LAN network interface card. For the ThinkPad 380Z, 390, 560Z, and 570, IBM Wake on LAN support available via the optional ThinkPad Port Replicator with Advanced EtherJet Feature.

[29] S.M.A.R.T. is defined as Self-Monitoring, Analysis and Reporting Technology.

[30] Response time varies. May exclude some holidays.

[31] ThinkPad EasyServ: customer calls 1-800-772-2227, courier service picks up ThinkPad system at most North American locations, IBM repairs and mails back (no shipping charges, most shipping is overnight, five business day average turnaround). Rapid Depot Repair (12-hour turnaround at depot from the time the machine arrives at the depot; three business day average turnaround) is standard for ThinkPad 600 and 770 systems in warranty and included for all ThinkPad systems as part of any mobile warranty upgrade. sent. Service levels are response objectives and are not guaranteed.

[32] Onsite service: for customers who have purchased on-site service options, LCD screen replacements and other selected repair replacements may be completed at a Depot repair center at IBM's discretion. National on-site coverage is available for selected ThinkPad products 8 a.m. to 5 p.m., customer's time zone, Monday through Friday, excluding holidays, next business day response. Not available in Alaska, Hawaii, Montana, and Wyoming (depot repair service only). Available in selected locations in other states.

[33] Maximum memory varies depending on model, and may require replacement of standard memory with optional maximum memory module.

[34] On ThinkPad 770X and 770Z, software-supported DVD movie playback is supported with an optional DVD drive (standard on some models) and Windows 98. All other 770 models require the optional DVD and Enhanced Video Adapter and either Windows 95 or Windows 98 for DVD movie playback.

[35] SystemXtra is available to commercial and state and local government customers with valid credit. Program is subject to change without notice. Additional terms, conditions and limitations may apply. IBM Global Financing offerings are made available through IBM Credit Corporation in the US and other IBM subsidiaries and divisions worldwide.

[36] ThinkPad 390, 570 and 600: thickness may vary at certain points on the system.

[37] These 56K V.90 modems are designed to be capable of receiving data at up to 56Kbps from a K56Flex or V.90 compatible service provider, and transmitting data at up to 31.2Kbps. Public networks currently limit maximum download speeds to about 53Kbps. Actual speeds depend on many factors and are often less than the maximum possible.

[38] DVD movie playback not supported with Windows NT.

[39] External device must support the same maximum resolution and refresh rate as that of the built-in notebook display.

These systems ship with an operating system.

As an ENERGY STAR Partner, the IBM Personal Systems Group has determined that this product meets the ENERGY STAR guidelines for energy efficiency. ENERGY STAR is a U.S. registered mark.

[40] Delivered with Windows 98 SE preloaded on the hard disk drive and a Windows 98SE Recovery CD in the box. For customers who prefer Windows 95, a Windows 95 Recovery CD is also included for installation of Windows 95. Installation of Windows 95 results in removal of the Windows 98 preload.

[41] For the models with Intel SpeedStop technology, denotes maximum performance mode; battery optimization mode is a lower MHz speed.

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