Product Brief

Intel® ISP2150 Internet Server Platform

Power to Serve the Internet Economy

KEY FEATURES

- 2U, 24" Rack-mount Design
- Four Hot-swappable RAID-capable Drives
- Validated on Most Popular OS
- Advanced Intel® Server Control System

intel®

Balanced Performance By Design

Scale with Your Business

The Intel® ISP2150 Internet server platform offers powerful performance and a flexible growth path in a compact system. Engineered for Service Providers, the thin 2U form factor and new 24" chassis length enables you to stack servers in parallel as you grow, and can be loaded with up to two Intel® Pentium® III processors for fast memory, fast storage, and fast network connections.

Customize to Your Environment

Starting from a single processor system, the ISP2150 can easily be upgraded with additional processor, memory and disk capacity. As your customer base expands and your needs grow, the ISP2150 can be clustered, load balanced, brought on-line quickly and easily managed from a central console. Unlike proprietary designs, the ISP2150's open, flexible architecture guarantees customers a wide selection of choices at every level of the solution stack—from hardware components and peripherals, to the most popular operating systems for Internet development, software applications, even development tools.

Built-in Server Management

Deploy, manage, refactor. Advanced Intel® Server Control features remote real-time server management throughout the life of your product. With this technology, the server management microprocessor coordinates interaction between sensors inside the system and a remote console displays critical information on your system administrator's PC. By establishing parameters for critical server voltages, temperatures, and rotational speeds, you can alert and even page administrators to out-of-bounds conditions—not only minimizing service interruptions but preventing them.

High Reliability for Maximum Uptime

As a compliment to remote, real-time server management, the ISP2150 features a number of hardware advancements to maximize uptime for your customer. A four-drive, hot-swappable storage subsystem offers robust storage space and data protection with an add-in RAID Controller to reduce server downtime and assure data integrity.

World-class Engineering, Worldwide Support

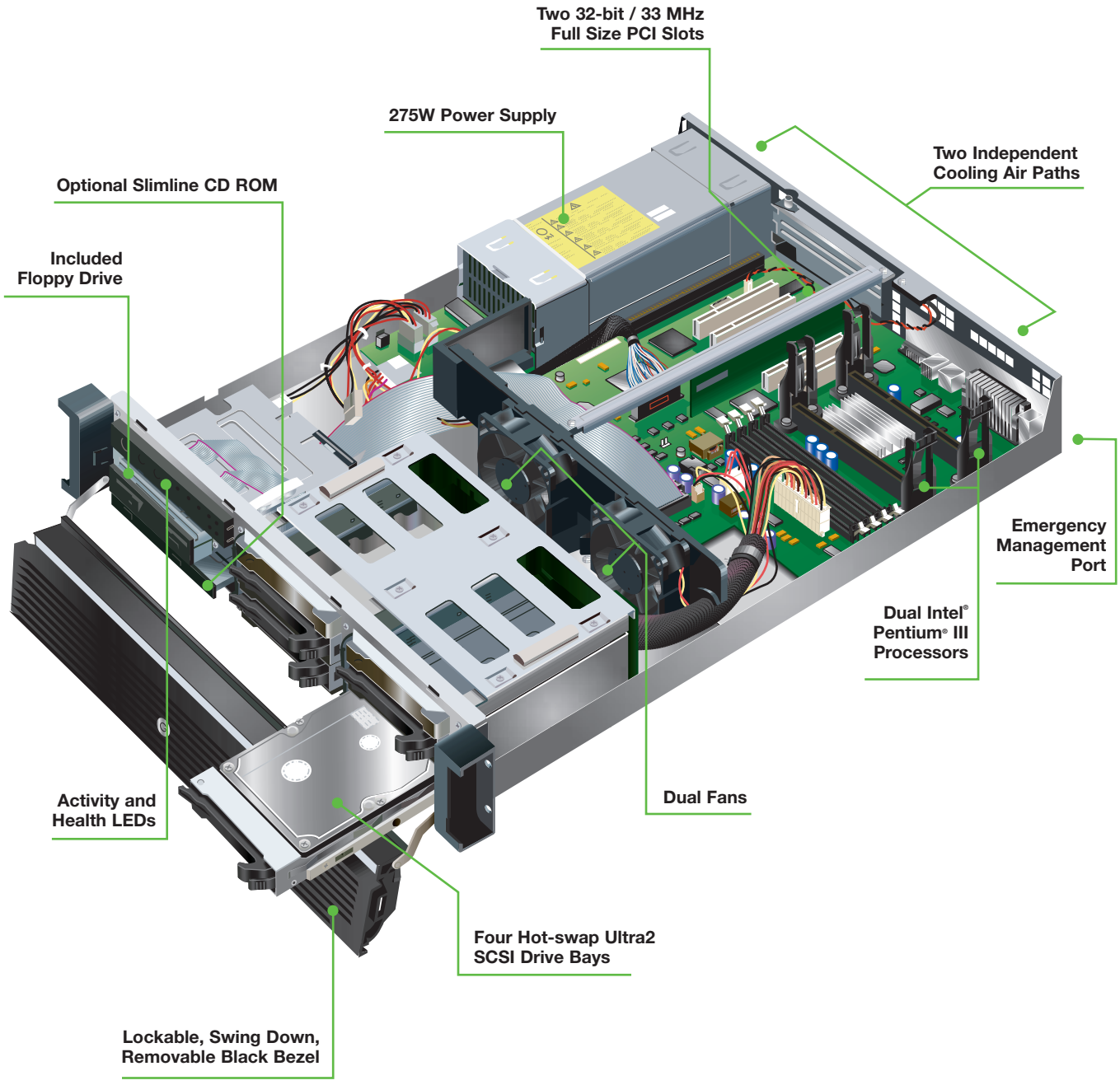
Intel® Internet Server Platforms are built from the ground up for high reliability, scalability, and easy integration. In addition to a three-year limited warranty on board and chassis and toll-free, worldwide technical phone support, Intel offers next business day replacement of warranty parts to keep mission critical products up and running.** For effort-less maintenance and real-time 7x24 technical information, Intel's extensive support web site features the latest drivers and updates as well as a searchable knowledge-base for troubleshooting and problem solving, top technical issues, and links to all Intel individual product support solutions.

Features	Benefits
Support for up to two 700 MHz Intel® Pentium® III Processors	Processing performance for demanding Internet applications like secure web and CGI scripts
Four-drive (2x1" and 2x1.6", or 4x1") Hot-swap Storage Subsystem	Large storage capacity; data protection with add-in RAID Controller to reduce downtime
Supports up to 2 GB of 100 MHz SDRAM Memory	Ample headroom for future expansion
Ultra2 SCSI Controller	High-performance disk access (80 MB/s) and support for tape back-up
Intel® PRO/100+ Fast Ethernet Controller (82559) on Motherboard	Scalable network bandwidth from 10 to 100 MB
Two Full Size PCI Slots	Growth for additional peripherals such as external SCSI and Ethernet boards
Integrated SVGA Graphics	Graphics available to administer and set-up system
Validated on Some of the Most Popular Operating Systems	Ensures a wide choice of applications, now and in the future
Advanced Intel® Server Control System ▪ ISC – Intel® Server Control Software ▪ Server Management Microprocessor ▪ EMP – Emergency Management Port ▪ PEP – Platform Event Paging	Deploy, manage, refactor. Remote, real-time server management throughout the product lifecycle

**Some restrictions apply. Not available in all geographies.

Intel® ISP2150 Internet Server

Dual processor support and up to 2 GB of SDRAM memory allows for ample headroom and support of high traffic web sites and complex e-Business applications.



www.intel.com/network/products/internet_infrastructure.htm

Intel® ISP2150 Internet Server Specifications

Processor/Cache

Processors Supported	Intel® Pentium® III processors up to 700 MHz

Intel® Chipset

	Intel® 82443GX+ (includes Intel® 21150 AGP-to-PCI Bridge), Intel® PIIX4E

System Memory

Memory Capacity	Four DIMM sockets for up to 2 GB of SDRAM (32 MB minimum)
Memory Type	PC/100 100 MHz SDRAM, 72-bit ECC or 64-bit non-ECC, 168 pin gold plated DIMMs
DIMM Sizes	32 MB, 64 MB, 128 MB, 256 MB, 512 MB
Memory Voltage	3.3V only
Error Detection	Corrects single-bit errors, detects double-bit errors (using ECC memory)

Expansion Slots (all full length)

Description	Two full-length PCI slots (32-bit/33 MHz) on riser card (not shown)

Integrated Adaptec* SCSI Controller

Controller	Adaptec* AIC*-7896 Dual Channel- one Ultra2 (LVD) (up to 80 MB/s), Two 68 pin "wide" SCSI connectors

Integrated Intel® Network Adapter

Controller	One Intel® PRO/100+ Fast Ethernet Server Controller (Intel® 82559) Supports 10BASE-T and 100BASE-TX, RJ45 output

Integrated Graphics

Controller	Cirrus Logic* GD 5480
Maximum Resolution	1280 x 1024; 16 colors
Graphics Memory	2 MB, 10 ns SGRAM

Integrated PCI/ISA IDE Xcelerator (PIIX4e)

IDE	Two independent channels for a total of four IDE devices PIO Mode 0, PIO Mode 3, PIO Mode 4, ATA-33 and CD-ROM support
USB	Two stacked USB connectors

Integrated Super I/O

Controller	National* Super 87309
Serial Ports	Two Asynch, RS-232C, 9 pin and 10 pin
Parallel Port	IEEE 1284, 25 pin bidirectional
Floppy Controller	1.44 MB
Keyboard/Mouse	PS/2, 8240A compatible

System BIOS

BIOS Type	8 MB Flash EEPROM with Phoenix* BIOS, Multi-boot BBS (BIOS Boot Specification) 1.0 Compliant
Special Features	Plug and Play, IDE drive autoconfigure, DMI 2.0, ECC/Parity support, multilingual support and jumperless processor speed setup
Configuration Utilities	System Set-up Utility (SSU) enables easy system setup of BIOS and utilities, plug and play

Jumpers and Front Panel Connectors

ATX Connectors	Speaker, reset, power LEDs, HD LED, power on/off Wake On LAN (WOL) Enable; flash configuration jumpers include: fault-resilient booting timer, boot-block protection, boot recovery, CMOS clear, password protect, BMC Forced Update

Server Management Instrumentation

Failure Detection	Voltage variation, thermal, operating-system Watchdog Timer, fan failure, power-supply failure, processor status, ECC memory, heat-sink fan check
Emergency Remote Management Port	Reset, power up/down control, read system event log (external modem required)
Platform Event Paging	Paging on 12 configurable events (external modem required)
Event Logging	Nonvolatile storage to prevent loss of logs in the event of system failure
Security	Video blanking, password protection

Intel® Server Control (ISC)

Managed Server	Operating systems supported: Windows NT* Server 4.0 SPS Solaris* 7.0
Management Consoles	ISC integrates into the leading management supported consoles: Intel® LANDesk® Server Manager 6.01 HP OpenView* Network Node Manager 5.02 CA TNG* Framework 2.01 for Windows NT*
Stand-alone Consoles	Microsoft Management Supported Console Internet Explorer* 3.02 and higher Netscape Navigator* 3.0 and higher with ActiveX* snap-in
System Health Monitor	Temperature, voltage, cooling fans, ECC memory, processor status, power-supply status, on-board NIC and SCSI; OS hang monitoring via Watchdog Timer
Alert Notification	When a configured event takes place these methods of notification are available: Network broadcast, SNMP trap, writing into System Event log (nonvolatile storage), Message box
Critical Event Actions	Graceful operating system shutdown with reboot or power off at administrator's discretion Immediate power off, reset or NMI

Environment

Ambient Temperature	Operating 10°C to +35°C Nonoperating/storage -40°C to +70°C ambient
Relative Humidity	Nonoperating 95% @ 30°C noncondensing

Regulations

Safety Regulations	
U.S. & Canada	UL1950-CSA 950
Europe CE Mark	EN60950 Compliance to EU Directive 89/336/EEC
International	IEC60 950, CB Report and Certificate
Nordic	EMKO-TSE (74-SEC) 207/94 – NEMKO

EMI/RFI

U.S.	FCC, CFR 47 Part 15, Class B
Canada	ICES-003, Class B
Europe CE Mark	EN55022 and EN55024
Japan	VCCI, Class B
International	CISPR-22, Class B
Australia/New Zealand	AS/NZS 3548, Class B

System

Form Factor	Rack
Height	2U (3.46") (88 mm)
Width	18.90"(480 mm)
Depth	24.10"(612 mm)
Weight	50 lbs. (minimum configuration)

Hot-swap Drive Bay

Drives	Supports 2x1.6" and 2x1" or 4x1" SCA 3.5"
SCSI Backplane	SCA Connectors
Drive Cooling	Two fans

Electrical Power Supply

AC Voltage and Frequency	115 v / 60 Hz; 230 v / 50 Hz
DC Power Supply	275W
+5VDC	20A maximum continuous
+5V Standby	2.0A maximum continuous
+12V	14A maximum continuous
+3.3V	14A maximum continuous
-5V	0.2A maximum continuous
-12V	0.2A maximum continuous
Remote Voltage Sense	Senses voltage levels on server board for more precise power-supply voltage regulation, leading to more efficient use of power

Intel Order Code: ISP2150 (server), FB2BRSPRSLW (spare kit)

0200/8K/HB/CC

Intel Literature Center: 1-800-548-4725
Order Number NP1539-002