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Intel® Server Board SE7501HG2

Tested Hardware and Operating System List

Revision History

Date	Revision Number	Modifications
January 2003	1.0	Initial Draft
February 2003	1.1	Updated hard drive and copyright information
April 2003	1.2	Deleted Server Management Software Support Section
June 2003	1.3	Updated System Configuration, OS Certifications, and Hard Drive Sections
October 2003	1.4	Updated hard drive section
November 2003	1.5	Updated System Configuration, Supported Operating Systems, Adapters and Peripherals, and Hard Disk Drives sections
December 2003	1.6	Updated to reflect support for SuSE* Linux 8.0 Professional and SuSE Linux 8.2 Professional
February 2004	1.7	Updated Maxtor Atlas 15K hard drive information
April 2004	1.8	Updated SATA hard drives information
September 2004	1.9	Updated System Configuration, Supported Operating Systems, Adapters and Peripherals, and Hard Disk Drives sections
October 2004	2.0	Added Maxtor Atlas 10K V hard drive information
November 2004	2.1	Added Hitachi* Ultrastar 10K300 hard drive information
December 2004	2.2	Added Fujitsu* AL-9LE and AL-9LX hard drives information

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1.   Introduction

This document is intended to provide users of the Intel® Server Board SE7501HG2 with a guide to the different operating systems, adapter cards, and peripherals tested by Intel on this platform.

This document will continue to be updated as new add-in cards, peripherals, and operating systems are tested or until the Intel server board SE7501HG2 is no longer in production. Each new release of the document will present updated information and provide the information from previous releases.

Intel will only provide support to those add-in cards and peripherals under the specified system configuration (System BIOS and firmware) and operating systems and versions to which they were tested.

1.1   Test Overview

Testing performed on the Intel server board SE7501HG2 is classified under two separate categories: Basic Installation Testing, and Adapter / Peripheral Compatibility and Stress Testing.

1.1.1   Basic Installation Testing

Basic installation testing is performed with each supported operating system. Basic installation testing validates that the server board can install the operating system and that the base hardware feature set is functional. A small set of peripherals is used for installation purposes only. No add-in adapter cards are tested. Testing includes network connectivity and running of proprietary and industry standard test suites.

> The latest version of an operating system signifies the latest supported version at the time of the actual test run. Each new release of this document may have a newly supported release of a given operating system. Previous releases of a supported operating system may not be tested beyond the basic installation test process.

1.1.1.1   Support Commitment for Basic Installation Testing

Intel commits to provide the following level of customer support for operating systems that receive only basic installation testing:

- Intel will provide and test operating system drivers for each of the server board's integrated controllers, provided that the controller vendor has a driver available upon request. Vendors will not be required by Intel to develop drivers for operating systems that they do not already support. This may limit the functionality of certain server board integrated controllers.
- Intel will support customer issues that involve installation and/or functionality of operating system with the server board's integrated controllers only if a driver has been made available.

- Intel will NOT provide support for issues related to use of any add-in adapters or peripherals installed in the server system when an operating system that received basic installation testing only is in use.
- Support is defined as assistance in root causing issues, and determining a customer acceptable resolution to the issue associated with the operating system. The resolution may include, but is not limited to, on-board controller driver changes, engaging the vendor for resolution, BIOS changes, firmware changes, or determining a customer acceptable workaround for the issue.

1.1.2   Adapter / Peripheral Compatibility and Stress Testing

Adapter / Peripheral Compatibility and Stress testing is performed only on the most current release of a supported operating system at the time of a given validation run. The Adapter / Peripheral Compatibility and Stress testing process consists of three areas: Base Platform, Adapter Compatibility, and Stress.

Base Platform: Each base platform will successfully install a given operating system, successfully run a disk stress test, and successfully run a network stress test.

Adapter Compatibility: Adapter compatibility validation (CV) testing uses test suites to gain an accurate view of how the server performs with a wide variety of adapters under the primary supported operating systems. These tests are designed to show hardware compatibility between the cards and the server platform and include functional testing only. No heavy stressing of the systems or the cards is performed for CV testing.

Stress Testing: This test sequence uses configurations that include add-in adapters in all available slots, (depending on chassis used) for a minimum 72-hour test run without injecting errors. Each configuration passes an installation test, a Network/Disk Stress test, and tape backup test. Any fatal errors that occur will require a complete test restart.

1.1.2.1   Support Commitment for Adapter / Peripheral Compatibility and Stress Testing

Intel commits to provide the following level of customer support for operating systems that receive Adapter / Peripheral Compatibility and Stress testing:

- Intel will provide support for customer issues with these operating systems involving installation and/or functionality of the server board with or without the adapters and peripherals listed in this document as having been tested under the particular operating system.
- Support is defined as assistance in root causing issues, and determining a customer acceptable resolution to the issue associated with the operating system. The resolution may include, but is not limited to, on-board controller driver changes, engaging the vendor for resolution, BIOS changes, firmware changes, or determining a customer acceptable workaround for the issue.
- Intel will provide and test operating system drivers for each onboard video, network, and storage controller.
- Intel will enable vendors to provide driver support for add-in adapters using these operating systems.

- Intel will go through some of the steps to achieve certification to ensure its customers do not run across any problems, but the actual certification is the responsibility of the individual customer.

> For operating systems, adapter cards, and peripherals not listed in this document, there is no support commitment. Intel will consider support requests on a case-by-case basis.

1.2   Pass/Fail Test Criteria

For each operating system, adapter, and peripheral configuration, a test passes if specific criteria are met. Specific configurations may have had particular characteristics that were addressed on a case-by-case basis. In general, a configuration passes testing if the following conditions are met:

- The operating system installed without error.
    - Manufacturer's installation instructions or Intel's best-known methods were used for the operating system installation.
    - No extraordinary workarounds were required during the operating system installation.
    - The server system behaved as expected during and after the operating system installation.
    - Application software installed and executed normally.
- Hardware compatibility tests ran to completion without error.
- Test software suites executed successfully
    - Test and data files were created in the correct directories without error.
    - Files copied from client to server and back compare to the original with zero errors reported.
    - Clients remain connected to the server system.
    - Industry standard test suites run to completion with zero errors reported.

All Intel Server Board SE7501HG2 testing was performed using the Intel Server Chassis SC5200.

2. Intel® Server Board SE7501HG2 Base System Configurations

The following table lists the base configurations tested. Base configurations will change as new revisions of the Intel® Server Board SE7501HG2 are released and/or new system BIOS and BMC firmware are cut onto the board in the factory. Each base configuration is assigned an identifier number that is referenced in the tables throughout this document. New base configurations are added with each new release of this document.

> ✍ Intel will only provide support for adapters and peripherals under the specified base system configuration and operating systems versions with which they were tested.

Base System Identifier #	Board Type	Part Number	BIOS Revision	BMC Firmware Revision	SC5200 HSC Firmware Revision	FRU/SDR
1	SE7501HG2	A95718-203	Build RC3	Ver 09	Ver 0.10	5.3.5
2	SE7501HG2	A95718-301	P01 Build 20 (P01-0020)	Ver 09	Ver 0.10	5.3.7
3	SE7501HG2	A95718-303	P01 Build 20 (P01-0020)	Ver 10	Ver 0.10	5.5.A
4	SE7501HG2	A95718-304	P04 Build 27 (P04-0027)	Ver 12	Ver 0.10	5.5.C
5	SE7501HG2	A95718-304	Production P06 Build 35 (P05-0035)	Ver 13	Ver 0.10	5.5.D
6	SE7501HG2	A95718-305	Production P07 Build 43 (P07-0043)	Ver 14	Ver 0.10	5.5.E
7	SE7501HG2	A95718-305	Production P10 (P10-0048)	Ver 17	Ver 0.10	5.5.G
8	SE7501HG2	A95718-306	Production P13-0051	Ver 17	Ver 0.10	5.5.I

3.   Supported Operating Systems

The following table provides a list of supported operating systems for the Intel® Server Board SE7501HG2. Each of the listed operating systems was tested for compatibility with a base server board SE7501HG2 configuration. Operating system compatibility testing verifies that the operating system will install and function with all on-board devices.

The following table also indicates whether each operating system received Basic Installation Testing, or Adapter / Peripheral Compatibility and Stress Testing. For information on the support commitments for Basic Installation Testing vs. Adapter / Peripheral Compatibility and Stress Testing, please reference Section 1 of this document.

Any variations to the standard operating system installation process are documented in the Installation Guidelines section of this document. If there are no installation guidelines noted in the following table, then the operating system installed as expected using manufacturer's installation instructions or Intel's best-known methods.

> Operating systems supported by Intel® Server Management software or LANDesk* Client Manager software may be different than the operating systems supported by the Intel Server Board SE7501HG2. Please reference the Readme and User Guide documents that are included as part of each Intel Server Management and LANDesk* Client Manager distribution for operating systems that are supported by that release.

Operating System	Base System Configuration Tested & Type of Testing	Notes
Microsoft* Windows Server 2003 Enterprise Edition / Microsoft Windows Small Business Server 2003	Configuration 7 – Compatibility & Stress Configuration 8 – Compatibility & Stress	Intel's testing was completed with Microsoft Windows Server 2003 Enterprise Edition. The Intel Server Board SE7501HG2 supports the operating system portion of Microsoft Windows Small Business Server 2003 only. The application portion is not tested or supported.
Microsoft Windows 2000 Advanced Server, Service Pack 3 / Microsoft Small Business Server 2000	Configuration 1 – Compatibility & Stress Configuration 2 – Compatibility & Stress Configuration 8 – Compatibility & Stress	Intel's testing was completed with Microsoft Windows 2000 Advanced Server. The Intel Server Board SE7501HG2 supports the operating system portion of Microsoft Small Business Server 2000 only. The application portion is not tested or supported.
Microsoft Windows NT 4.0, Service Pack 6a	Configuration 1 – Basic Installation Configuration 2 – Basic Installation	
Red Hat* Enterprise Linux 3.0 AS	Configuration 8 – Compatibility & Stress	
Red Hat Linux 9.0	Configuration 7 –	

Operating System	Base System Configuration Tested & Type of Testing	Notes
	Compatibility & Stress	
Red Hat Linux 8.0	Configuration 1 – Compatibility & Stress	
	Configuration 2 – Compatibility & Stress	
Red Hat Linux 7.3	Configuration 1 – Basic Installation	
	Configuration 2 – Basic Installation	
SuSE* Linux 8.0 Professional	Configuration 1 – Compatibility & Stress	
	Configuration 2 – Compatibility & Stress	
Novell Netware* 6.5	Configuration 8 – Compatibility & Stress	
Novell Netware 6.0, Overlay CD with support pack3	Configuration 7 – Compatibility & Stress	
Novell NetWare 6.0, Service Pack 2	Configuration 1 – Compatibility & Stress	
	Configuration 2 – Compatibility & Stress	
Novell NetWare 5.1, Service Pack 5	Configuration 1 – Compatibility & Stress	
	Configuration 2 – Compatibility & Stress	
SuSE* Linux 9.0 Professional	Configuration 8 – Compatibility & Stress	
SuSE Linux 8.2 Professional	Configuration 7 – Compatibility & Stress	
Caldera* OpenUnix 8.0 MP4	Configuration 7 – Compatibility & Stress	
Caldera OpenUnix 8.0, MP3	Configuration 1 – Compatibility & Stress	
	Configuration 2 – Compatibility & Stress	
Turbo* Linux 7.0	Configuration 1 – Basic Installation Configuration 2 – Basic Installation	

3.1   Operating System Certifications

Listed below are the operating systems that Intel has certified with the server board SE7501HG2. However, the customer is responsible for their own certification from the individual operating

system vendors. In many cases, the customer may leverage their operating system certifications from Intel's testing. See the "Comments" section next to each operating system in the table below for additional information. Intel's certifications, pre-certification, and operating system testing may help reduce some of the risk in achieving customer certifications with the operating system vendors.

Operating System	Certification Listing	Comments
Microsoft Windows Server 2003	Intel® SE7501HG2 Server	OEM must request certification by Microsoft for their specific product. http://www.microsoft.com/hwdq/hcl/search.asp (Search for SE7501HG2) http://developer.intel.com/design/servers/whql.htm
Microsoft Windows 2000 Advanced Server	Intel® SE7501HG2 Server	OEM must request certification by Microsoft for their specific product. http://www.microsoft.com/hwdq/hcl/search.asp (Search for SE7501HG2) http://developer.intel.com/design/servers/whql.htm
Novell NetWare 5.1 and 6.0	Intel® SE7501HG2 Server	Novell checks Intel's test results, certifies (if appropriate), and posts the certificate on their web site. Customer can leverage the Intel certification, if customer product meets the operating system vendor standard.
Red Hat Linux 8.0 and 7.3	Intel® SE7501HG2 Server	Red Hat checks Intel's results, certifies (if appropriate), and posts the certificate on their web site. Customer can leverage the Intel certification, if customer product meets the operating system vendor standard. http://hardware.redhat.com/hcl/?pagename=hcl&view=certified&vendor=399&class=8#list
Caldera OpenUnix 8.0	Intel® SE7501HG2 Server	Caldera checks Intel's results, certifies (if appropriate), and posts the certificate on their web site. Customer can leverage the Intel certification, if customer product meets the operating system vendor standard.
SuSE Linux 8.2 Professional	Intel® SE7501HG2 Server	SuSE checks Intel's test results, certifies (if appropriate), and posts the certificate on their web site.Certification can be found at: http://www.suse.de/de/business/certifications/certified_hardware/intel/se7501hg2/index.html

4.   Adapters and Peripherals

Add-in adapter card and peripheral compatibility and stress testing is performed only with the latest version of an operating system at the time the validation testing occurred. The following table shows the operating system and base configurations used to validate each device. The adapters are divided into categories based on their functionality. All integrated on-board devices are tested by default and are therefore not included in the following tables.

Note that not all adapter cards were tested under all operating systems. The following notation is used in the tested adapters and peripherals table below to indicate the support level that Intel provides for a particular adapter under a particular operating system:

Number (i.e. 1)	This adapter or peripheral has been tested and is supported under the specific configuration identified in the Base System Configurations Table in Section 2 of this document.
Number in brackets (i.e. [1])	This adapter or peripheral has been tested, but is NOT supported under the specific configuration identified in the Base System Configurations Table in Section 2 of this document.
NT	This adapter or peripheral has not been tested under this operating system and is not supported under this operating system.
ND	This adapter or peripheral has not been tested under this operating system due to limitations in IHV driver availability at the time testing was performed.
SA (Similar Adapter)	This adapter is supported, but not tested. This adapter model has not been tested with this server board, but Intel will support it based on successful testing of a similar adapter from the same adapter family. Intel has high confidence that this adapter will function correctly with the server board. This adapter uses the same firmware and drivers, and has a nearly identical system interface to another adapter of the same family that has been successfully tested with this server board. In addition, Intel has secured IHV commitment to support the similar adapters equally. Customers should always test adapters as part of the final system configuration prior to deployment. All installation guidelines for the tested adapter also apply to the similar adapter.
(6.x)	Variations to the standard adapter installation process or variations in functionality can be expected and are documented in Chapter 6 of the the Installation Guidelines section of this document.

Any variations to the standard adapter installation process or functionality are documented in the Installation Guidelines section of this document. If there are installation guidelines affecting a particular adapter and operating system combination, these are referenced in the following table. If there are no installation guidelines noted in the following table, then the adapter installed and functioned as expected using manufacturer's installation instructions or Intel's best-known methods.

> Testing of adapters cards normally is performed with unused add-in adapters and onboard controller expansion ROMs disabled in BIOS Setup. Intel recommends that customers disable the option ROM for add-in controllers and/or the on-board controllers when not booting from the controller or needing to use its built in utilities.

Manufac turer	Model Name	Model Number	Interface	Microsoft Windowns Server 2003 Enterprise Edition	Red Hat Enterprise Linux 3.0 AS	SuSE Linux 9.0 Professional	Novell NetWare 6.5	Red Hat Linux 9.0 Professional	SuSE* Linux 8.2 Professional	Microsoft Windows 2000 Advanced Server, SP3	Novell NetWare 6.0, SP2	Red Hat Linux 8.0	SCO OpenUnix 8.0, MP3	SuSE Linux 8.0 Professional	Comments
4.1	**PCI RAID**														
Adaptec	ASR-3410S	ASR-3410S	PCI-64/66	7	NT	NT	NT	7	7	1,2	1,2	1,2	1,2	1,2	4-Channel U160
Adaptec	AAR2410 SA	AAR2410 SA	PCI-64/66	8	8	NT	8	NT	NT	8	NT	NT	NT	NT	
Adaptec	ASR-2110S	ASR-2110S	PCI-64/66	7,8	[8]	8	8	7	7	1,2,8	1,2	1,2	1,2	1,2	1-Channel U160 Low Profile
Adaptec	ASR-2200S	ASR-2200S	PCI-64/66	7 *,8	8	8	8	7	7 **	8	NT	NT	NT	NT	* In event log of Microsoft Windows Server 2003 Enterprise Edition, a message "at least one service or driver failed during system start up" is displayed when using this adapter for booting. **The driver for this adapter is not supported by vendor but used OS embedded driver.
ICP-Vortex*	GDT8623 RZ	GDT8623 RZ	PCI-64/66	SA	NT	NT	NT	SA	SA	1,2	1,2	1,2	1,2	1	2-Channel U160 RAID
ICP-Vortex	GDT8514 RZ	GDT8514 RZ	PCI-64/66	7 *,8	8	NT	8	7 *	7 *	8	SA	SA	SA	SA	*The driver for this adapter is not supported by vendor but used OS embedded driver.

Manufac turer	Model Name	Model Number	Interface	Microsoft Windows Server 2003 Enterprise Edition	Red Hat Enterprise Linux 3.0 AS	SuSE Linux 9.0 Professional	Novell NetWare 6.5	Red Hat Linux 9.0 Professional	SuSE* Linux 8.2 Professional	Microsoft Windows 2000 Advanced Server, SP3	Novell NetWare 6.0, SP2	Red Hat Linux 8.0	SCO OpenUnix 8.0, MP3	SuSE Linux 8.0 Professional	Comments
ICP-Vortex	GDT8524 RZ	GDT8524 RZ	PCI-64/66	8	8	[8]	8	NT	NT	8	NT	NT	NT	NT	
Intel®	SRCU31	SRCU31	PCI-32/33	NT	NT	NT	NT	NT	NT	1,2	1,2	1,2	1,2	1,2	1-Channel U160 RAID
Intel	SRCU31L	SRCU31L	PCI-32/33	NT	NT	NT	NT	NT	NT	1,2	1,2	1,2	1,2	1,2	1-Channel U160 Low Profile RAID
Intel	SRCU32	SRCU32	PCI-64/66	7,8	8	[8]	8	[7] *	7	1,2,8	1,2	1,2	1,2	1,2	2-channel low profile U160 RAID *RedHat Linux 9.0 is not installed to a volume that is connected the adapter when this adapter is installed in slot #1, #5. If onboard SCSI and its option ROM are disabled, RedHat Linux 9.0 could be installed to the adapter's volume.

Manufac turer	Model Name	Model Number	Interface	Microsoft Windows Server 2003 Enterprise Edition	Red Hat Enterprise Linux 3.0 AS	SuSE Linux 9.0 Professional	Novell NetWare 6.5	Red Hat Linux 9.0 Professional	SuSE* Linux 8.2 Professional	Microsoft Windows 2000 Advanced Server, SP3	Novell NetWare 6.0, SP2	Red Hat Linux 8.0	SCO OpenUnix 8.0, MP3	SuSE Linux 8.0 Professional	Comments
Intel	SRCU42L	SRCU42L	PCI-64/66	7,8	[8]	8	8	[7] *	7	1,2,8	1,2	1,2	1,2	1,2	2-channel low profile U320 RAID *RedHat Linux 9.0 is not installed to a volume that is connected the adapter when this adapter is installed in slot #1, #5. If onboard SCSI and its option ROM are disabled, RedHat Linux 9.0 could be installed to the adapter's volume.
Intel	SRCU42X	SRCU42X	PCI-X133	8	8	8	8	NT	NT	8	NT	NT	NT	NT	
Intel	SRCS14L	SRCS14L	PCI-64/66	7,8	8	[8]	8	[7] *	7	8	NT	NT	NT	NT	*RedHat Linux 9.0 is not installed to a volume that is connected the adapter when this adapter is installed in slot #1, #5. If onboard SCSI and its option ROM are disabled, RedHat Linux 9.0 could be installed to the adapter's volume.
LSI Logic*	Enterprise 1600 (MegaRAI D 471)	471401023 2A	PCI-64/66	SA	SA	SA	SA	SA	SA	1,2	1,2	1,2	2	1,2	4-channel U160 RAID

Manufacturer	Model Name	Model Number	Interface	Microsoft Windows Server 2003 Enterprise Edition	Red Hat Enterprise Linux 3.0 AS	SuSE Linux 9.0 Professional	Novell NetWare 6.5	Red Hat Linux 9.0 Professional	SuSE* Linux 8.2 Professional	Microsoft Windows 2000 Advanced Server, SP3	Novell NetWare 6.0, SP2	Red Hat Linux 8.0	SCO OpenUnix 8.0, MP3	SuSE Linux 8.0 Professional	Comments
LSI Logic	MegaRAID 475	Express 500 (MegaRAID 475)	PCI-32/33	7,8	8	8	8	7	NT	1,2,8	1,2	1,2	1,2	(6.2)	1-Channel U160 RAID
LSI Logic	Elite 1600 (MegaRAID 493)	4932010232A	PCI-64/66	7	8	8	8	7	ND	1,2,8	1,2	1,2	1,2	1,2	2-channel U160 RAID
LSI Logic	MegaRAID 320-2 (518)	MegaRAID SCSI 320-2	PCI-64/66	7,8	8	8	8	7	7 *	8	NT	NT	NT	NT	* The driver of this adapter is not supported by vendor and OS manufacuturer.
3Ware*	8500-4	8500-4	3Ware	7,8	8	[8]	NT	7	7	8	NT	NT	NT	NT	
3Ware	Escalade 7500-8	Escalade 7500-8	PCI-32/33	NT	NT	NT	NT	NT	NT	1,2	ND	1,2	ND	1,2	ATA RAID 8-Drive
Promise*	FastTrack S150 SX4	FastTrack S150 SX4	PCI-32/66	8	NT	NT	NT	NT	NT	8	NT	NT	NT	NT	

4.2　PCI SCSI

Manufacturer	Model Name	Model Number	Interface	Microsoft Windows Server 2003 Enterprise Edition	Red Hat Enterprise Linux 3.0 AS	SuSE Linux 9.0 Professional	Novell NetWare 6.5	Red Hat Linux 9.0 Professional	SuSE* Linux 8.2 Professional	Microsoft Windows 2000 Advanced Server, SP3	Novell NetWare 6.0, SP2	Red Hat Linux 8.0	SCO OpenUnix 8.0, MP3	SuSE Linux 8.0 Professional	Comments
Adaptec*	ASC-29160N	ASC-29160N	PCI-32/33	NT	NT	NT	NT	NT	NT	1,2	1,2	1,2	1,2	1,2	1-channel U160
Adaptec	ASC-39160	ASC-39160	PCI-64/66	7,8	8	8	8	7	7	1,2,8	1,2	1,2	1,2	1,2	2-channel U160
Adaptec	ASR-39320	ASR-39320	PCIX-64/133	NT	NT	NT	NT	NT	NT	1,2	1,2	(6.3)	1,2	(6.4)	2-channel w/HostRAID U320
Adaptec	ASC39320D-R	ASC39320D-R	PCI-X133	7,8	8	8	8	7	7	8	NT	NT	NT	NT	
Adaptec	ASC29320LP-R	ASC29320LP-R	PCI-X133	7,8	8	8	8	7	7	8	NT	NT	NT	NT	

Manufacturer	Model Name	Model Number	Interface	Microsoft Windows Server 2003 Enterprise Edition	Red Hat Enterprise Linux 3.0 AS	SuSE Linux 9.0 Professional	Novell NetWare 6.5	Red Hat Linux 9.0 Professional	SuSE* Linux 8.2 Professional	Microsoft Windows 2000 Advanced Server, SP3	Novell NetWare 6.0, SP2	Red Hat Linux 8.0	SCO OpenUnix 8.0, MP3	SuSE Linux 8.0 Professional	Comments
LSI Logic*	LSI20160L	LSI20160L	PCI-32/33	7,8	8	8	8	7	7	1,2,8	1,2	1,2	1,2	(6.5)	1-channel low profile U160
LSI Logic	IT16200U3LP	LSI22903	PCI-64/66	NT	NT	NT	NT	NT	NT	1,2	1,2	1,2	1,2	1,2	2-channel low profile U160
LSI Logic	LSI22320-R	LSI22320-R	PCIX-64/133	7,8	8	8	8	7	7	1,2,8	1,2	1,2	1,2	1,2	2-channel U320
LSI Logic	LSI20320-R	LSI20320-R	PCIX-64/133	SA	SA	SA	SA	SA	SA	1,2	1,2	1,2	1,2	1,2	1-channel low profile U320

4.3 PCI MROMB

Manufacturer	Model Name	Model Number	Interface	Microsoft Windows Server 2003 Enterprise Edition	Red Hat Enterprise Linux 3.0 AS	SuSE Linux 9.0 Professional	Novell NetWare 6.5	Red Hat Linux 9.0 Professional	SuSE* Linux 8.2 Professional	Microsoft Windows 2000 Advanced Server, SP3	Novell NetWare 6.0, SP2	Red Hat Linux 8.0	SCO OpenUnix 8.0, MP3	SuSE Linux 8.0 Professional	Comments
Adaptec*	ASR-2000S	ASR-2000S	PCI-64/66	NT	NT	NT	NT	NT	NT	1,2	1,2	(6.1)	1,2	1,2	U160 Low Profile ZCR
Adaptec	ASR-2010S	2010S Nighthawk II	PCI-64/66	7,8	8	8	8	7	7	8	NT	NT	NT	NT	
Intel®	SRCMRU	SRCMRU	PCI-64/66	NT	NT	NT	NT	NT	NT	1,2	1,2	1,2	1,2	1,2	2-channel (ROMB) U160
Intel	SRCZCR	SRCZCR	PCI-64/66	7,8	8	8	8	7	7	1,2,8	1,2	1,2	1,2	1,2	2-channel (ROMB) U160/320 SCSI or SATA RAID

4.4 PCI Fiber Channel

Manufacturer	Model Name	Model Number	Interface	Microsoft Windows Server 2003 Enterprise Edition	Red Hat Enterprise Linux 3.0 AS	SuSE Linux 9.0 Professional	Novell NetWare 6.5	Red Hat Linux 9.0 Professional	SuSE* Linux 8.2 Professional	Microsoft Windows 2000 Advanced Server, SP3	Novell NetWare 6.0, SP2	Red Hat Linux 8.0	SCO OpenUnix 8.0, MP3	SuSE Linux 8.0 Professional	Comments
Emulex*	LP9002LP-F2	LP9002	PCI-64/66	7,8	[8]	NT	8	NT	NT	8	NT	NT	NT	NT	
Emulex	LP9802DC	LP9802DC	PCI-X133	7,8	8	NT	8	NT	NT	8	NT	NT	NT	NT	
Emulex	LP9002	LP9002	PCI-64/66	SA	NT	NT	NT	SA	SA	1,2	1,2	(6.6)	1,2	ND	2Gb/s One Channel

Manufac turer	Model Name	Model Number	Interface	Microsoft Windows Server 2003 Enterprise Edition	Red Hat Enterprise Linux 3.0 AS	SuSE Linux 9.0 Professional	Novell NetWare 6.5	Red Hat Linux 9.0 Professional	SuSE* Linux 8.2 Professional	Microsoft Windows 2000 Advanced Server, SP3	Novell NetWare 6.0, SP2	Red Hat Linux 8.0	SCO OpenUnix 8.0, MP3	SuSE Linux 8.0 Professional	Comments
Emulex	LP9402	LP9402	PCI-X133	NT	NT	NT	NT	NT	NT	1,2	1,2	1,2	1,2	(6.7)	2Gb/s Dual Channel
Qlogic*	QLA2200/66	QLA2200/66	PCI-64/66	7,8	8	NT	8	7	7	1,2,8	1,2	1,2	1,2	1,2	200MB/s Single Channel
Qlogic	QLA2340	QLA2340	PCI-X133	7	SA	NT	SA	7	7	1,2	1,2	ND	ND	ND	400MB/s Single Channel
Qlogic	QLA2342	QLA2342	PCI-X133	8	8	NT	8	SA	SA	8	SA	NT	NT	NT	

4.5 PCI Network Interface Adapters

3COM*	3C905C-TX-M	EtherLink* 10/100 PCI	PCI-32/33	7,8	8	8	8	7	7	1,2,8	1,2	1,2	1,2	1,2	
3COM	3C980C-TXM	EtherLink Server 10/100 PCI Managed	PCI-32/33	7,8	8	8	8	7	7	1,2,8	1,2	1,2	1,2	1,2	
3COM	3c996B-T Replacem ent	3c996B-T Replacem ent	PCI-X133	7,[8]*	[8]*	[8]*	[8]*	7	7	[8]*	NT	NT	NT	NT	*Fail on PCI 32/33 slots
D-Link*	DFE-530/TX+	DFE-530/TX+	PCI-32/33	7	8	8	8	7	7	1,2,8	1,2	1,2	ND	1,2	
Intel®	PWLA849 0MF	PRO/1000 MF Gigabit Server Adapter	PCI-X133	SA	SA	SA	SA	SA	SA	1,2	1,2	1,2	1,2	1,2	

Manufacturer	Model Name	Model Number	Interface	Microsoft Windowns Server 2003 Enterprise Edition	Red Hat Enterprise Linux 3.0 AS	SuSE Linux 9.0 Professional	Novell NetWare 6.5	Red Hat Linux 9.0 Professional	SuSE* Linux 8.2 Professional	Microsoft Windows 2000 Advanced Server, SP3	Novell NetWare 6.0, SP2	Red Hat Linux 8.0	SCO OpenUnix 8.0, MP3	SuSE Linux 8.0 Professional	Comments
Intel	PWLA84900MT	PRO/1000 MT Gigabit Server Adapter	PCI-X133	7,8	8	8	8	7	7	1,2,8	1,2	1,2	1,2	1,2	
Intel	PWLA84922MT	PRO/1000 MT Dual Port Gigabit Server Adapter	PCI-X133	7,8	8	8	8	7	7	8	NT	NT	NT	NT	
Intel	PWLA84944MT	PRO/1000 MT Quad Port Server Adapter	PCI-X133	7,8	8	8	8	7	7	8	NT	NT	NT	NT	
Intel	PILA8470D3	PRO/100+S Server	PCI-32/33	7,8	8	8	8	7	7	1,2,8	1,2	1,2	1,2	1,2	
Intel	PILA8472C3	PRO/100+ Dual Port	PCI-64/66	7,8	8	8	8	7	7	1,2,8	1,2	1,2	1,2	1,2	
Intel	PWLA84900XT	PRO/1000 XT Gigabit Server Adapter	PCI-X133	7,8	8	8	8	7	7	1,2,8	1,2	1,2	1,2	1,2	
Intel	PWLA84900XF	PRO/1000 XF Gigabit Server Adapter	PCI-X133	SA	SA	SA	SA	SA	SA	1,2	1,2	1,2	1,2	1,2	
Intel	PWLA84900T	PRO/1000 T	PCI-64/66	NT	NT	NT	NT	NT	NT	1,2	1,2	1,2	1,2	1,2	

Manufacturer	Model Name	Model Number	Interface	Microsoft Windows Server 2003 Enterprise Edition	Red Hat Enterprise Linux 3.0 AS	SuSE Linux 9.0 Professional	Novell NetWare 6.5	Red Hat Linux 9.0 Professional	SuSE* Linux 8.2 Professional	Microsoft Windows 2000 Advanced Server, SP3	Novell NetWare 6.0, SP2	Red Hat Linux 8.0	SCO OpenUnix 8.0, MP3	SuSE Linux 8.0 Professional	Comments
Intel	PWLA8490SX	PRO/1000 F	PCI-64/66	NT	NT	NT	NT	NT	NT	1,2	1,2	1,2	1,2	1,2	

4.6   Modems

Manufacturer	Model Name	Model Number	Interface	Microsoft Windows Server 2003 Enterprise Edition	Red Hat Enterprise Linux 3.0 AS	SuSE Linux 9.0 Professional	Novell NetWare 6.5	Red Hat Linux 9.0 Professional	SuSE* Linux 8.2 Professional	Microsoft Windows 2000 Advanced Server, SP3	Novell NetWare 6.0, SP2	Red Hat Linux 8.0	SCO OpenUnix 8.0, MP3	SuSE Linux 8.0 Professional	Comments
3COM*	Performance Pro Modem	3CP5610A	PCI-32/33	7	NT	NT	NT	7	7	1,2	ND	1,2	ND	1,2	
3COM	56K V.92 Performance Pro	USR5610B	PCI-32/33	8	8	8	NT	NT	NT	8	NT	NT	NT	NT	
3COM	3CP3453	3CP3453	RS-232	7,8	8	8	NT	7	7	1,2,8	ND	1,2	1,2	1,2	

4.7   USB/PS2 Devices

Manufacturer	Model Name	Model Number	Interface	Microsoft Windows Server 2003 Enterprise Edition	Red Hat Enterprise Linux 3.0 AS	SuSE Linux 9.0 Professional	Novell NetWare 6.5	Red Hat Linux 9.0 Professional	SuSE* Linux 8.2 Professional	Microsoft Windows 2000 Advanced Server, SP3	Novell NetWare 6.0, SP2	Red Hat Linux 8.0	SCO OpenUnix 8.0, MP3	SuSE Linux 8.0 Professional	Comments
Addonics*	Addonics combo hard drive	Addonics combo hard drive	USB	NT	NT	NT	NT	NT	NT	1, 2	NT	1, 2	NT	1, 2	
IOMEGA*	ZIP 250MB USB	ZIP 250MB USB	USB	NT	NT	NT	NT	NT	NT	1,2	NT	1,2	1,2	NT	
IOMEGA	ZIP-750	ZIP-750	USB 2.0	NT	NT	NT	NT	NT	NT	1,2	NT	1,2	NT	1,2	
IOMEGA	CD-RW	24x10x40	USB	NT	NT	NT	NT	NT	NT	1,2	NT	1,2	NT	1,2	
Keytronic* keyboard	PRO Pilot	PRO Pilot	PS2	7,8	8	8	8	7	7	1,2,8	1,2	1,2	1,2	1,2	
Keytronic keyboard	E06101USB-C	E06101USB-C	USB	7,8	8	8	8	7	7	1,2,8	1,2	1,2	1,2	(6.8)	
LG*	LG U2	U2-12x	USB	NT	NT	NT	NT	NT	NT	1,2	NT	1,2	NT	1,2	

Manufacturer	Model Name	Model Number	Interface	Microsoft Windows Server 2003 Enterprise Edition	Red Hat Enterprise Linux 3.0 AS	SuSE Linux 9.0 Professional	Novell NetWare 6.5	Red Hat Linux 9.0 Professional	SuSE* Linux 8.2 Professional	Microsoft Windows 2000 Advanced Server, SP3	Novell NetWare 6.0, SP2	Red Hat Linux 8.0	SCO OpenUnix 8.0, MP3	SuSE Linux 8.0 Professional	Comments
LOGITECH*	Internet Navigator	Internet Navigator	USB/PS2	7,8	8	8	8	7	7	1,2,8	1,2	1,2	1,2	1,2	
LOGITECH	930582-0403	Optical mouse	PS/2 and USB	7	NT	NT	NT	7	7	1,2	1,2	1,2	1,2	1,2	
Maxtor*	X01USB2040	3000LE	USB	NT	NT	NT	NT	NT	NT	1, 2	NT	1, 2	NT	1, 2	
Microsoft*	Intellimouse Optical	Intellimouse Optical	PS/2 and USB	7,8	8	8	8	7	7	1,2,8	1,2	1,2	1,2	1,2	
M-systems*	Disk On Key	128MB	USB	NT	NT	NT	NT	NT	NT	1,2	NT	1,2	NT	1,2	
Plextor*	Plexwriter	40x12x40	USB	NT	NT	NT	NT	NT	NT	1,2	NT	1,2	NT	1,2	
Plextor	CD-RW 40x12x40 U	PlexWriter 40x12x40 U	USB	NT	NT	NT	NT	NT	NT	2	NT	NT	NT	NT	
Sony*	PCGA-UFD5	VAIO External USB Floppy	USB	NT	NT	NT	NT	NT	NT	2	NT	NT	NT	NT	
Teac*	CDWF540E	CDWF540E	USB	NT	NT	NT	NT	NT	NT	1,2	NT	1,2	NT	1,2	
Teac	USB FDD	FD05PUB	USB	NT	NT	NT	NT	NT	NT	1, 2	NT	1,2	1,2	NT	
Teac	CDWF540E	CDWF540E	USB	NT	NT	NT	NT	NT	NT	1,2	NT	1,2	NT	1,2	

4.8   CDROM Drives

Manufacturer	Model Name	Model Number	Interface	Microsoft Windows Server 2003 Enterprise Edition	Red Hat Enterprise Linux 3.0 AS	SuSE Linux 9.0 Professional	Novell NetWare 6.5	Red Hat Linux 9.0 Professional	SuSE* Linux 8.2 Professional	Microsoft Windows 2000 Advanced Server, SP3	Novell NetWare 6.0, SP2	Red Hat Linux 8.0	SCO OpenUnix 8.0, MP3	SuSE Linux 8.0 Professional	Comments
IOMEGA*	CD-RW	24x10x40	USB	NT	NT	NT	NT	NT	NT	1,2	NT	1,2	NT	1,2	
IOMEGA	CD-RW 48x24x48	CD-RW 48x24x48	USB	7,8	8	8	8	7	7 *	8	NT	NT	NT	NT	* SuSE* Linux 8.2 is not installed from USB device.

Manufacturer	Model Name	Model Number	Interface	Microsoft Windows Server 2003 Enterprise Edition	Red Hat Enterprise Linux 3.0 AS	SuSE Linux 9.0 Professional	Novell NetWare 6.5	Red Hat Linux 9.0 Professional	SuSE* Linux 8.2 Professional	Microsoft Windows 2000 Advanced Server, SP3	Novell NetWare 6.0, SP2	Red Hat Linux 8.0	SCO OpenUnix 8.0, MP3	SuSE Linux 8.0 Professional	Comments
LG	LG U2	U2-12x	USB	NT	NT	NT	NT	NT	NT	1,2	NT	1,2	NT	1,2	
Mitsumi*	SR244W1	SR244W1	ATA33	7,8	8	8	8	7	7	8	NT	NT	NT	NT	
Mitsumi	IDE CDROM	CRMC-FX5401W	ATA-33	7	NT	NT	NT	7	7	1,2	1,2	1,2	1,2	1,2	
Plextor*	PX-W4824TU /SW	PlexWriter 48/24/48U	USB	7	NT	NT	NT	7	7 *	NT	NT	NT	NT	NT	* SuSE* Linux 8.2 is not installed from USB device.
Plextor	PX-40TSUW	PX-40TSUW	SCSI-UW	NT	NT	NT	NT	NT	NT	1,2	1,2 (6.9)	1,2	1,2	1,2	
Plextor	PX-W4012TS /SW	PX-W4012TS /SW	SCSI-UW	8	8	8	8	NT	NT	8	NT	NT	NT	NT	
Plextor	Plexwriter	40x12x40	USB	NT	NT	NT	NT	NT	NT	1,2	NT	1,2	NT	1,2	
Plextor	PlexWriter	Premium-U - 52/32/52	USB	8	8	8	8	NT	NT	8	NT	NT	NT	NT	
Samsung *	SC-152	SC-152	ATA-33	7,8	8	8	8	7	7	1,2,8	1,2	1,2	1,2	1,2	
Samsung	SN-124q	SN-124q	ATA-33	7	NT	NT	NT	7	7	1,2	1,2	1,2	1,2	1,2	
Teac*	CDWF540 /KIT	CDWF540 /KIT	USB	7	[8]	[8]	[8]	7	7 *	NT	NT	NT	NT	NT	* SuSE* Linux 8.2 is not installed from USB device.
Teac	CD-232E	CD-232E	ATA33	7,8	8	8	[8]	7	7	8	NT	NT	NT	NT	
Teac	CD-540E	CD-540E	ATA33	8	8	8	[8]	NT	NT	8					
Teac	CD-552E	CD-552E	ATA-33	NT	NT	NT	NT	NT	NT	1,2	1,2	1,2	1,2	1,2	
Teac	CDWF540 E	CDWF540 E	USB	NT	NT	NT	NT	NT	NT	1,2	NT	1,2	NT	1,2	

4.9 DVD Drives

Manufacturer	Model Name	Model Number	Interface	Microsoft Windows Server 2003 Enterprise Edition	Red Hat Enterprise Linux 3.0 AS	SuSE Linux 9.0 Professional	Novell NetWare 6.5	Red Hat Linux 9.0 Professional	SuSE* Linux 8.2 Professional	Microsoft Windows 2000 Advanced Server, SP3	Novell NetWare 6.0, SP2	Red Hat Linux 8.0	SCO OpenUnix 8.0, MP3	SuSE Linux 8.0 Professional	Comments
Hewlett Packard*	DVD Writer 200i	DVD Writer 200i	ATA33	NT	NT	NT	NT	NT	NT	1,2	1,2	1,2	1,2	1,2	
Liteon*	LSD-081	LSD-081	ATA33	7,8	8	8	8	7	7	8	NT	NT	NT	NT	
Panasonic*	SR-8177-B	SR-8177-B	ATA33	7,8	8	8	8	7	7	8	NT	NT	NT	NT	
Panasonic	CW-8123B	CW-8123B	ATA	8	8	8	8	NT	NT	8					
Pioneer*	DVD-305S-A	DVD-305S-A	SCSI-N	NT	NT	NT	NT	NT	NT	1,2	1,2 (6.9)	1,2	1,2	1,2	
Pioneer	DVD-305S	DVD-305S	SCSI-N	7	NT	NT	NT	7	7	NT	NT	NT	NT	NT	
Samsung	SD-616	SD-616	ATA33	7,8	8	8	8	7	7	1,2,8	1,2	1,2	1,2	1,2	
Sony*	DRU-510A	DRU-510A	ATA33	7,8	8	8	8	7	7	8	NT	NT	NT	NT	
Sony	DRU-510UL	DRU-510UL	USB	8	8	8	8	NT	NT	8	NT	NT	NT	NT	
Teac	DV-28E-BP3	DV-28E-BP3	ATA33	8	8	8	8	NT	NT	8	NT	NT	NT	NT	
Toshiba*	SD-C2612	SD-C2612	ATA33	NT	NT	NT	NT	NT	NT	(6.10)	(6.10)	(6.10)	(6.10)	(6.10)	
Toshiba	SD-R2412	SD-R2412	ATA33	7	NT	NT	NT	7	7	NT	NT	NT	NT	NT	
Toshiba	SD-M1612	SD-M1612	ATA33	7	NT	NT	NT	7	7	1,2	1,2	1,2	1,2	1,2	
Toshiba	SD-M1712	SD-M1712	ATA33	8	8	8	8	NT	NT	8	NT	NT	NT	NT	

Manufacturer	Model Name	Model Number	Interface	Microsoft Windows Server 2003 Enterprise Edition	Red Hat Enterprise Linux 3.0 AS	SuSE Linux 9.0 Professional	Novell NetWare 6.5	Red Hat Linux 9.0 Professional	SuSE* Linux 8.2 Professional	Microsoft Windows 2000 Advanced Server, SP3	Novell NetWare 6.0, SP2	Red Hat Linux 8.0	SCO OpenUnix 8.0, MP3	SuSE Linux 8.0 Professional	Comments
Toshiba	SD-M1401	SD-M1401	SCSI	7,8	8	8	8	7	7	1,2,8	1,2 (6.9)	1,2	1,2	1,2	

4.10　Tape Drives

Manufacturer	Model Name	Model Number	Interface	Microsoft Windows Server 2003 Enterprise Edition	Red Hat Enterprise Linux 3.0 AS	SuSE Linux 9.0 Professional	Novell NetWare 6.5	Red Hat Linux 9.0 Professional	SuSE* Linux 8.2 Professional	Microsoft Windows 2000 Advanced Server, SP3	Novell NetWare 6.0, SP2	Red Hat Linux 8.0	SCO OpenUnix 8.0, MP3	SuSE Linux 8.0 Professional	Comments
Quantum*	TRS23BA-YF	Super DLT	SCSI-U2	7,8	8	8	8	7	7	1,2,8	1,2	1,2	1,2	1,2	
Seagate*	STD2401 LW-S	Scorpion 40 DDS4 DAT	SCSI-U2	8	8	8	8	NT	NT	1,2,8	1,2	1,2	1,2	1,2	
Sony*	SDX-S500C/BM	SDX-S500C/BM	SCSI-U2	8	8	8	8	NT	NT	1,2,8	1,2	1,2	ND	1,2	
Sony	SDX-S700C/BM	SDX-S700C/BM	SCSI-U2	NT	NT	NT	NT	NT	NT	(6.11)	(6.12)	1,2	1,2	1,2	
Sony	SDX-700C/BM	AIT-3 Desktop	SCSI-U160	7,8	8	8	8	7	7	[8]	NT	NT	NT	NT	

4.11　Removable Drives

Manufacturer	Model Name	Model Number	Interface	Microsoft Windows Server 2003 Enterprise Edition	Red Hat Enterprise Linux 3.0 AS	SuSE Linux 9.0 Professional	Novell NetWare 6.5	Red Hat Linux 9.0 Professional	SuSE* Linux 8.2 Professional	Microsoft Windows 2000 Advanced Server, SP3	Novell NetWare 6.0, SP2	Red Hat Linux 8.0	SCO OpenUnix 8.0, MP3	SuSE Linux 8.0 Professional	Comments
Fujitsu*	MCJ3230AP	MCJ3230AP	ATA	NT	NT	NT	NT	NT	NT	1,2	NT	1,2	ND	1,2	
Fujitsu	MCJ3230SS	MCJ3230SS	SCSI-N	NT	NT	NT	NT	NT	NT	1,2	1,2	1,2	1,2	1,2	
IBM*	22P9025	22P9025	USB	8	8	8	8	NT	NT	8	NT	NT	NT	NT	
IOMEGA*	32324	ZIP 750MB USB 2.0	USB 2.0	7,8	8	8	NT	7	7	8	NT	NT	NT	NT	
IOMEGA	32548	Mini 128MB USB Drive	USB 2.0	7,8	8	8	8	7	7	8	NT	NT	NT	NT	

Manufac turer	Model Name	Model Number	Interface	Microsoft Windows Server 2003 Enterprise Edition	Red Hat Enterprise Linux 3.0 AS	SuSE Linux 9.0 Professional	Novell NetWare 6.5	Red Hat Linux 9.0 Professional	SuSE* Linux 8.2 Professional	Microsoft Windows 2000 Advanced Server, SP3	Novell NetWare 6.0, SP2	Red Hat Linux 8.0	SCO OpenUnix 8.0, MP3	SuSE Linux 8.0 Professional	Comments
IOMEGA	ZIP-IDE250	ZIP-IDE250	ATA	NT	NT	NT	NT	NT	NT	1,2	1,2	1,2	1,2	1,2	
IOMEGA	ZIP-750	ZIP-750	USB 2.0	NT	NT	NT	NT	NT	NT	1,2	NT	1,2	NT	1,2	
M-systems*	Disk On Key	128MB	USB	NT	NT	NT	NT	NT	NT	1,2	NT	1,2	NT	1,2	
Panasonic*	Superdisk	LS-240	ATA	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
RAINBOW*	Sentinal Duo	Sentinel Duo Hardware Key	USB	7,8	8	[8]	[8]	NT	NT	8	NT	NT	NT	NT	
SanDisk*	SDCZ2-256	SDCZ2-256	USB	8	[8]	[8]	8	NT	NT	8	NT	NT	NT	NT	
Sony*	PCGA-UFD5	VAIO External USB floppy	USB	7,8	8	8	8	7	7	8	NT	NT	NT	NT	
Teac*	FD-235HF	FD-235HF	Floppy	7,8	8	8	8	7	7	1,2,8	1,2	1,2	1,2	1,2	
Teac	FDO5PUB	FDO5PUB	USB	7,8	8	8	8	7	7	1,2,8	1,2	NT	NT	NT	

4.12 KVM

Manufac turer	Model Name	Model Number	Interface	Microsoft Windows Server 2003 Enterprise Edition	Red Hat Enterprise Linux 3.0 AS	SuSE Linux 9.0 Professional	Novell NetWare 6.5	Red Hat Linux 9.0 Professional	SuSE* Linux 8.2 Professional	Microsoft Windows 2000 Advanced Server, SP3	Novell NetWare 6.0, SP2	Red Hat Linux 8.0	SCO OpenUnix 8.0, MP3	SuSE Linux 8.0 Professional	Comments
Avocent*	1160ES	1160ES	PS/2	7,8	8	8	8	7	7	1,2,8	1,2	1,2	1,2	1,2	
Belkin*	Omniview Pro	Omniview Pro	PS/2	NT	NT	NT	NT	NT	NT	1,2	1,2	1,2	1,2	1,2	
Belkin	F1DA108 T	Omniview PRO2 Series2	PS/2	7,8	8	8	8	7	7	8	NT	NT	NT	NT	

4.13 Graphic

Manufac turer	Model Name	Model Number	Interface	Microsoft Windows Server 2003 Enterprise Edition	Red Hat Enterprise Linux 3.0 AS	SuSE Linux 9.0 Professional	Novell NetWare 6.5	Red Hat Linux 9.0 Professional	SuSE* Linux 8.2 Professional	Microsoft Windows 2000 Advanced Server, SP3	Novell NetWare 6.0, SP2	Red Hat Linux 8.0	SCO OpenUnix 8.0, MP3	SuSE Linux 8.0 Professional	Comments
ATI*	RADEON 7000	RADEON 7000	PCI-32/33	[7] *,8	8	8	8	[7] *	[7] *	8	NT	NT	NT	NT	* When ATI Radeon 7000 graphic adapter is located PCI slot#1, there's no display.
ATI	RADEON 7500	RADEON 7500	PCI-32/33	7	NT	NT	NT	7	7	NT	NT	NT	NT	NT	

5.   Hard Disk Drives

The hard drives listed in the following table have been tested with the Intel® Server Board SE7501HG2 in its validation labs and/or by individual hard drive vendors. The following operating system identifiers are used in the table to specify which operating system each drive was tested under.

Identfier	Operating System
1	Microsoft* Windows 2000 Advanced Server (SP3)
2	Red Hat* Linux 8.0
3	Novell Netware* 6 Overlay CD with support pack 3
4	SuSE* Linux 8.0 Professional
5	Caldera* OpenUnix 8.0, MP4
6	Microsoft Windows Server 2003 Enterprise Edition
7	Red Hat Linux 9.0
8	SuSE Linux 8.2 Professional
9	Red Hat Enterprise Linux 3.0 AS
10	SuSE Linux 9.0 Professional
11	Novell Netware 6.5
12	Caldera OpenUnix 8.0, MP5

Note: The SuSE Linux 8.0 production version drivers for the onboard AIC7902 SCSI controller were not available when testing was performed. All SuSE Linux 8.0 drive testing was done with a pre-production driver (Alpha1.3 v.04).

Note That not all hard drives may have been tested under all operating systems. The following notation is used in the tested hard drives table below to indicate the support level that Intel provides for a particular hard drive with a particular operating system:

Number (i.e. 1)	This hard drive has been tested and is supported under the operating system identified by the operating system identification number.
Number in brackets (i.e. [1])	This hard drive has been tested, but is NOT supported under the operating system identified by the operating system identification number.
SD (Similar Drive)	The hard disk drive is supported, but not tested. This hard drive model/capacity has not been tested with this server board, but Intel will support it based on successful testing of a larger capacity hard drive from the same hard drive family. Intel has high confidence that this hard drive will function correctly with the server board. This drive uses the exact same firmware and drivers as a larger capacity hard drive that has been successfully tested with this server board. The only difference between this drive and the one that was used in testing is the storage capacity. Intel provides the same level of support for all hard drives listed in this document, regardless of whether the drive was tested or not. Customers should always test hard drives as part of the final system configuration prior to deployment. Given the fact that a larger capacity hard drive from the same drive family has successfully completed testing on this server board, this particular hard drive capacity point will not be tested.

Number (i.e. 1)	This hard drive has been tested and is supported under the operating system identified by the operating system identification number.
IHVT (IHV Tested)	The hard disk drive was tested according to Intel-approved guidelines and test procedures by the Independent Hardware Vendor (IHV) that manufactured the drive. Intel provides the same level of support for all hard drives listed in this document, regardless of whether the drive was tested in an Intel lab or not. IHV test reports remain the property of the IHV (Intel cannot provide copies of these reports).

Manufacturer	Product Family	Model Number	Interface	RPM	Drive Size (GB)	Operating Systems Tested	Comments
ATA Hard Disks							
Hitachi*	Deskstar* 180GXP	IC35L180AVV207	ATA/100	7200	180	1,2,3,4,5,6, 7,8,9,10,11	
Hitachi	Deskstar 180GXP	IC35L120AVV207	ATA/100	7200	120	1,2,3,4,5,6, 7,8,9,10,11	SD
Hitachi	Deskstar 180GXP	IC35L090AVV207	ATA/100	7200	80	1,2,3,4,5,6, 7,8,9,10,11	SD
Hitachi	Deskstar 180GXP	IC35L060AVV207	ATA/100	7200	60	1,2,3,4,5,6, 7,8,9,10,11	SD
Hitachi	Deskstar 180GXP	IC35L030AVV207	ATA/100	7200	30	1,2,3,4,5,6, 7,8,9,10,11	SD
Hitachi	Deskstar 120GXP	IC35L120AVV207	ATA/100	7200	120	1,2,3,4,5	
Hitachi	Deskstar 120GXP	IC35L100AVVA07	ATA/100	7200	100	1,2,3,4,5	SD
Hitachi	Deskstar 120GXP	IC35L080AVVA07	ATA/100	7200	80	1,2,3,4,5	SD
Hitachi	Deskstar 120GXP	IC35L060AVVA07	ATA/100	7200	60	1,2,3,4,5	SD
Hitachi	Deskstar 120GXP	IC35L040AVVA07	ATA/100	7200	40	1,2,3,4,5	SD
Hitachi	Deskstar 120GXP	IC35L020AVVA07	ATA/100	7200	20	1,2,3,4,5	SD
Hitachi	Deskstar 7K250	HDS722516VLAT80	ATA/100	7200	160	1,6,9,10,11	
Hitachi	Deskstar 7K250	HDS722512VLAT80	ATA/100	7200	120	1,6,9,10,11	SD
Maxtor*	DiamondMax* D540X	4D040H2	ATA/100	5400	40	1,2,3,4,5	
Maxtor	DiamondMax D540X	4D020H1	ATA/100	5400	20	1,2,3,4,5	SD
Maxtor	DiamondMax Plus 9	6Y200P0	ATA/133	7200	200	1,2,3,4,5,6, 7,8,9,10,11	
Maxtor	DiamondMax Plus 9	6Y160P0	ATA/133	7200	160	1,2,3,4,5,6, 7,8,9,10,11	SD
Maxtor	DiamondMax Plus 9	6Y120P0	ATA/133	7200	120	1,2,3,4,5,6, 7,8,9,10,11	SD

Manufacturer	Product Family	Model Number	Interface	RPM	Drive Size (GB)	Operating Systems Tested	Comments
Maxtor	DiamondMax Plus 9	6Y080P0	ATA/133	7200	80	1,2,3,4,5,6,7,8,9,10,11	SD
Maxtor	DiamondMax D740X	6L080J4	ATA/133	7200	80	1,2,3,4,5	
Maxtor	DiamondMax D740X	6L060J3	ATA/133	7200	60	1,2,3,4,5	SD
Maxtor	DiamondMax D740X	6L040J2	ATA/133	7200	40	1,2,3,4,5	SD
Maxtor	DiamondMax D740X	6L020J1	ATA/133	7200	20	1,2,3,4,5	SD
Samsung*	SpinPoint* P40	SP8004H	ATA/100	7200	80	1,2,3,4,5	
Seagate*	Barracuda* ATA V	ST3120023A	ATA/100	7200	120	1,2,3,4,5	
Seagate	Barracuda ATA V	ST380023A	ATA/100	7200	80	1,2,3,4,5	SD
Seagate	Barracuda ATA V	ST360015A	ATA/100	7200	60	1,2,3,4,5	SD
Seagate	Barracuda ATA V	ST340017A	ATA/100	7200	40	1,2,3,4,5	SD
Seagate	Barracuda ATA IV	ST380021A	ATA/100	7200	80	1,2,3,4,5	
Seagate	Barracuda ATA IV	ST360021A	ATA/100	7200	60	1,2,3,4,5	SD
Seagate	Barracuda ATA IV	ST340016A	ATA/100	7200	40	1,2,3,4,5	SD
Seagate	Barracuda ATA IV	ST320011A	ATA/100	7200	20	1,2,3,4,5	SD
Seagate	Barracuda 7200.7	ST3160023A	ATA/100	7200	160	1,6,9,10,11	
Seagate	Barracuda 7200.7	ST3120026A	ATA/100	7200	120	1,6,9,10,11	SD
Seagate	Barracuda 7200.7	ST380013A	ATA/100	7200	80	1,6,9,10,11	SD
Western Digital*	Caviar* XL40	WD800BB	ATA/100	7200	80	1,2,3,4,5	
Western Digital	Caviar XL40	WD600BB	ATA/100	7200	60	1,2,3,4,5	SD
Western Digital	Caviar XL60	WD2000JB	ATA/100	7200	200GB /8MB Cache	1,2,3,4,5,6,7,8,9,10,11	
Western Digital	Caviar XL60	WD1800JB	ATA/100	7200	180GB /8MB Cache	1,2,3,4,5,6,7,8,9,10,11	SD
Western Digital	Caviar XL60	WD1200BB-00EEA1	ATA100	7200	120	1,6,7,8,9,10,11	

Manufacturer	Product Family	Model Number	Interface	RPM	Drive Size (GB)	Operating Systems Tested	Comments
Western Digital	Caviar XL60	WD1200JB	ATA/100	7200	120GB /8MB Cache	1,2,3,4,5,6, 7,8,9,10,11	SD
SATA Hard Drives							
Seagate*	Barracuda 7200.7	ST3160023AS	SATA	7200	160	1,6,7,8,9,10 ,11	
Seagate	Barracuda 7200.7	ST3120026AS	SATA	7200	120	1,6,7,8,9,10 ,11	SD
Seagate	Barracuda 7200.7	ST3200822AS	SATA	7200	200	1,6,7,8,9,10 ,11	SD
Seagate	Barracuda 7200.7	ST380013AS	SATA	7200	80	1,6,7,8,9,10 ,11	SD
Seagate	Barracuda 5 SATA	ST3120023AS	SATA	7200	120	6,7,8	SD
Western Digital*	WD Raptor	WD360GD	SATA	10,000	36	6,7,8	
Maxtor*	Diamond Max Plus 9	6Y060M0	SATA	7200	60	1,6,7,8,9,10 ,11	SD
Maxtor	Diamond Max Plus 9	6Y080M0	SATA	7200	80	1,6,7,8,9,10 ,11	SD
Maxtor	Diamond Max Plus 9	6Y120M0	SATA	7200	120	1,6,7,8,9,10 ,11	
Maxtor	Diamond Max Plus 9	6Y160M0	SATA	7200	160	1,6,7,8,9,10 ,11	SD
Maxtor	Diamond Max Plus 9	6Y200M0	SATA	7200	200	1,6,7,8,9,10 ,11	SD
SCSI Hard Drives							
Fujitsu*	AL-7LX	MAM3367MC	U160/SCA	15,000	36	1,2,3,4,5	
Fujitsu	AL-7LX	MAM3184MC	U160/SCA	15,000	18	1,2,3,4,5	SD
Fujitsu	AL-7LE	MAN3367MC	U160/SCA	10,000	36	1,2,3,4,5	
Fujitsu	AL-7LE	MAN3184MC	U160/SCA	10,000	18	1,2,3,4,5	SD

Manufacturer	Product Family	Model Number	Interface	RPM	Drive Size (GB)	Operating Systems Tested	Comments
Fujitsu	AL-8LE	MAP3147NC	U320/SCA	10,000	147	1,2,3,4,5,6,7,8	
Fujitsu	AL-8LE	MAP3735NC	U320/SCA	10,000	73	1,2,3,4,5	SD
Fujitsu	AL-8LE	MAP3367NC	U320/SCA	10,000	36	1,2,3,4,5	SD
Fujitsu	AL-8LX	MAS3735NC	U320/SCA	15,000	73	1,2,3,4,5,6,7,8,9,10,11	
Fujitsu	AL-8LX	MAS3367NC	U320/SCA	15,000	36	1,2,3,4,5,6,7,8,9,10,11	SD
Fujitsu	AL-8LX	MAS3184NC	U320/SCA	15,000	18	1,2,3,4,5,6,7,8,9,10,11	SD
Fujitsu	AL-9LE	MAT3073NC	U320/SCA	10,000	73	1,3,6,7,12	IHVT (Firmware Rev 0105)
Fujitsu	AL-9LE	MAT3147NC	U320/SCA	10,000	147	1,3,6,7,12	IHVT (Firmware Rev 0105)
Fujitsu	AL-9LE	MAT3300NC	U320/SCA	10,000	300	1,3,6,7,12	IHVT (Firmware Rev 0105)
Fujitsu	AL-9LX	MAU3036NC	U320/SCA	15,000	36	1,3,6,7,12	IHVT (Firmware Rev 0102)
Fujitsu	AL-9LX	MAU3073NC	U320/SCA	15,000	73	1,3,6,7,12	IHVT (Firmware Rev 0102)
Fujitsu	AL-9LX	MAU3147NC	U320/SCA	15,000	147	1,3,6,7,12	IHVT (Firmware Rev 0102)
Hitachi*	DK32EJ	DK32EJ-14	U320/SCA	10,000	147	1,2,3,4,5,6,9,10,11	
Hitachi*	DK32EJ	DK32EJ-72	U320/SCA	10,000	72	1,2,3,4,5,6,9,10,11	SD

Manufacturer	Product Family	Model Number	Interface	RPM	Drive Size (GB)	Operating Systems Tested	Comments
Hitachi*	DK32EJ	DK32EJ-36	U320/SCA	10,000	36	1,2,3,4,5,6, 9,10,11	SD
Hitachi	Ultrastar* 36Z15	IC35L036UCPR15	U160/SCA	15,000	36	1,2,3,4,5,6, 7,8	
Hitachi	Ultrastar 36Z15	IC35L018UCPR15	U160/SCA	15,000	18	1,2,3,4,5	SD
Hitachi	Ultrastar 146Z10	IC35L146UCDY10	U160/SCA	10,000	146	1,2,3,4,5	
Hitachi	Ultrastar 146Z10	IC35L146UCDY10-0	SCSI-U320-SCA	10,000	146	1,6,7,8,9,10 ,11	
Hitachi	Ultrastar 146Z10	IC35L073UCDY10	U160/SCA	10,000	73	1,6,7,8,9,10 ,11	SD
Hitachi	Ultrastar 146Z10	IC35L036UCDY10	U160/SCA	10,000	36	1,6,7,8,9,10 ,11	SD
Hitachi	Ultrastar 146Z10	IC35L018UCDY10	U160/SCA	10,000	18	1,6,7,8,9,10 ,11	SD
Hitachi	Ultrastar 10K300	HUS103030EL3800	U320/SCA	10,000	300	1,3,6,12	IHVT
Hitachi	Ultrastar 10K300	HUS103014EL3800	U320/SCA	10,000	147	1,3,6,12	IHVT
Hitachi	Ultrastar 10K300	HUS103073EL3800	U320/SCA	10,000	73	1,3,6,12	IHVT
Hitachi	Ultrastar 10K300	HUS103036EL3800	U320/SCA	10,000	36	1,3,6,12	IHVT
Hitachi	Ultrastar 15K73	HUS157373EL3800	U320/SCA	15,000	73	1,2,3,5	IHVT
Hitachi	Ultrastar 15K73	HUS157336EL3800	U320/SCA	15,000	36	1,2,3,5	SD, IHVT
Maxtor*	Atlas* 10K III	KW018J2	U160/SCA	10,000	18	1,2,3,4,5	
Maxtor	Atlas 10K III	KU073J8	U320/SCA	10,000	73	1,2,3,4,5	
Maxtor	Atlas 10K III	KU036J8	U320/SCA	10,000	36	1,2,3,4,5	SD
Maxtor	Atlas 10K III	KU018J2	U320/SCA	10,000	18	1,2,3,4,5	SD
Maxtor	Atlas 10K IV	8B146J0	U320/SCA	10,000	146	1,2,3,4,5,6, 7,8,9,10,11	
Maxtor	Atlas 10K IV	8B074J0	U320/SCA	10,000	73	1,2,3,4,5,6, 7,8,9,10,11	SD

Manufacturer	Product Family	Model Number	Interface	RPM	Drive Size (GB)	Operating Systems Tested	Comments
Maxtor	Atlas 10K IV	8B036J0	U320/SCA	10,000	36	1,2,3,4,5,6, 7,8,9,10,11	SD
Maxtor	Atlas 10K V	8D300J0	U320/SCA	10,000	300	1,2,3,8,12	IHVT (uCode= QSJNS0)
Maxtor	Atlas 10K V	8D147J0	U320/SCA	10,000	147	1,2,3,8,12	IHVT (uCode= QSJNS0)
Maxtor	Atlas 10K V	8D073J0	U320/SCA	10,000	73	1,2,3,8,12	IHVT (uCode= QSJNS0)
Maxtor	Atlas 15K	8C073J0	U320-SCA	15,000	73	1,2,3,5,8	
Maxtor	Atlas 15K II	8E147J0080311	U320/SCA	15,000	147	1,2,3,8,12	IHVT (uCode= RSJNX0)
Maxtor	Atlas 15K II	8E073J0040111	U320/SCA	15,000	73	1,2,3,8,12	IHVT (uCode= RSJNX0)
Maxtor	Atlas 15K II	8E036J0020111	U320-SCA	15,000	36	1,2,3,8,12	IHVT (uCode= RSJNX0)
Seagate*	Cheetah* 10K.6	ST3146807LC	U320/SCA	10,000	146	1,2,3,4,5,6, 7,8,9,10,11	
Seagate	Cheetah 10K.6	ST373307LC	U320/SCA	10,000	73	1,2,3,4,5,6, 7,8,9,10,11	SD
Seagate	Cheetah 10K.6	ST336607LC	U320/SCA	10,000	36	1,2,3,4,5,6, 7,8,9,10,11	SD
Seagate	Cheetah 15K.3	ST373453LC	U320/SCA	15,000	73	1,2*,3*,4*, 5*,6,7*,8*,9, 10,11	*IHVT
Seagate	Cheetah 15K.3	ST336753LC	U320/SCA	15,000	36	1,2*,3*,4*, 5*,6,9,10, 11	SD, *IHVT
Seagate	Cheetah 15K.3	ST318453LC	U320/SCA	15,000	18	1,2*,3*,4*, 5*,6,9,10, 11	SD, *IHVT
Seagate	Cheetah X15 36LP	ST336732LC	U320/SCA	15,000	36	1,2,3,4,5	
Seagate	Cheetah X15 36LP	ST318432LC	U320/SCA	15,000	18	1,2,3,4,5	SD

Manufacturer	Product Family	Model Number	Interface	RPM	Drive Size (GB)	Operating Systems Tested	Comments
USB Hard Drives							
Addonics*	AEMED35AUM	Combo Hard Drive Kit	USB	Converter cable USB2.0 to ATA HD (Seagate ST380021A Barracuda 4)		1,6,7,8,9,10 ,11	
Maxtor*	S01J250	5000XT	USB	250 GB USB 2.0/1.1 and firewire hard drive		1,6,7,8,9,10 ,11	

6.   Installation Guidelines

6.1   RedHat Linux 8.0 boot error

Issue: The Intel Server Board SE7501HG2 may fail to boot to Red Hat Linux 8.0 when an Adaptec ASR-2000 placed in PCI-X slot 2 (Slot-2 is the RADIOS enabled slot for ZCR cards).

Implication: The Adaptec ASR-2000 adapter may utilize too much of the EBDA area causing a problem loading the Kernel image

Guideline: Confirm that the EBDA relocation option is enabled in the Adapter (I2O) BIOS

Status: Resolution verified, issue does not occur when EBDA option is enabled

6.2   SuSE 8.0 MegaRAID 475 driver fails to automatically load during installation

Issue: During the installation of SuSE 8.0 the MegaRAID 475 Driver will not automatically load from the distribution CD

Implication: The MegaRAID controller will not initialize properly if drivers do not load.

Guideline: An installation workaround is available: For configurations using the MegaRAID 475 and an onboard IDE CD-ROM perform the following steps:

1. Select 'Manual' Installation when the installation CD boots up.
2. Select the 'languages' on the first two screens.
3. At the Main Menu, select 'Kernel Modules'.
4. At the next screen select 'Load IDE/SCSI/RAID Drivers'.
5. From the list of drivers provided select 'MegaRAID'.
6. Navigate back to the Main Menu and select 'Start Installation / System'.
7. At the next screen select 'Start Installation/update'.
8. Continue with the rest of the installation as normal.

Status: Resolution verified, issue does not occur when the workaround is used.

6.3   System hangs observed when running an Adaptec AIC7902 based controllers on Red Hat Linux 8.0 during stress testing

Issue: Red Hat Linux 8.0 may stall after approximately 30 minutes of stress tests when an Adaptec AIC7902 based controllers are installed.

Implication: The system may hang without logging an error in the SEL

Guideline: Changes made to the Tag_depth value have yielded successful results in the validation environment with test drivers. Adaptec plans to release a new driver incorporating these changes in Q1.

Status: Version 1.3 of the AIC-7902 driver will incorporate these changes, it can be found on the Intel support website for the SE7501HG2 platform.

6.4   System hangs observed when running an Adaptec AIC7902 based controllers on SuSE Linux 8.0 during stress testing

Issue: SuSE Linux 8.0 may stall after approximately 30 minutes of stress tests when an Adaptec AIC7902 based controllers are installed.

Implication: The system may hang without logging an error in the SEL

Guideline: Changes made to the Tag_depth value have yielded successful results in the validation environment with test drivers. Adaptec plans to release a new driver incorporating these changes in Q1.

Status: Version 1.3 of the AIC-7902 driver will incorporate these changes, it can be found on the Intel support website for the SE7501HG2 platform.

6.5   The SuSE 8.0 LSI 20160 driver fails to automatically load during installation

Issue: During the installation of SuSE 8.0 the LSI 20160 driver will not automatically load from the distribution CD

Implication: The LSI 20160 controller will not initialize properly if drivers do not load.

Guideline: An installation workaround is available: For configurations using the LSI 20160 controller, perform the following steps:

1. Boot from SuSE 8.0 install CD 1
2. Select Manual Installation (no parameters)
3. Select English (US)
4. Select Kernel Modules

5. Select Load IDE/RAID/SCSI modules

6. Select Sym53c8xx (No parameters required, press enter)

7. After a moment, should receive: Modules "sym53c8xx" loaded successfully

8. Select back

9. Select Start installation / system

10. Select Start installation/update

11. Select CD-ROM

12. Select English (US)

13. Confirm driver activations (active -all of them)

14. Select new installation

15. System will show an available hard drive and proper partitioning

16. Select necessary software

17. Select Accept to begin installation

When disk 1 is complete, system will reboot and proceed to the remaining install (CD's 2 and 3). When complete, system will reboot and OS will come up properly.

Status: SuSE Linux 8.0 doe not support the E7501 Chipset, a workaround is required for this version. This issue is expected to be resolved in SuSE 8.1

6.6   The Emulex LP9402 driver fails to load during Red Hat 8.0 installation

Issue: The Emulex LP9402 driver fails to load during Red Hat 8.0 installation with the following error: "Warning the module you are trying to load (lpfcdd.o) is compiled with a gcc version 2 compiler, while the kernel you are running was complied with a version 3 complier. This is known not to work."

Implication: The Emulex LP9402 driver fails to load, subsystem cannot be accessed.

Guideline: None at this time.

Status: Emulex is currently investigating changes to their driver for this issue.

6.7   The Emulex LP9402 driver fails to load during SuSE 8.0 installation

Issue: The Emulex LP9402 driver fails to load during SuSE 8.0 installation with the following error: "Warning: Kernel-module version mismatch lpfcdd.2.418-64GB-SMP.o was compiled for kernel version 2.4.18-4GB, while this kernel version is 2.418-64GB-SMP.

Implication: The Emulex LP9402 driver fails to load and the subsystem cannot be accessed.

Guideline: None at this time.

Status: Emulex is currently investigating changes to their driver for this issue.

6.8   SuSE Linux 8.0 could not detect Keytronic keyboard w/USB hub

Issue: SuSE Linux 8.0 could not detect a Keytronic combination keyboard and USB Hub (E06101USB-C)

Implication: The system detects and recognizes the Keytronic hub and devices connected through the hub, however the combined keyboard fails to be detected.

Guideline: None at this time.

Status: Additional investigation is in progress with this device.

6.9   Novell NetWare 6.0 Installation fails from SCSI CD

Issue: Novell NetWare 6.0 Installation fails from SCSI CD to SCSI HDD,
                Due to an issue with the DOS based 7902 SCSI drivers. The following error message appears during installation:

```
ERROR: Driver "GDTX000.EXE' is not installed
GDT ASPI Manager not installed!
Error: Unable to find a loadable driver
  Refer to readme.txt
  ............
  Completed codepage prepare function
  Completed codepage select function
  command or filename not recognized
  A:\>
```

Implication: A NetWare 6.0 installation utilizing a SCSI CDROM coupled to an AIC7902 SCSI adapter or onboard device (7902 controller is onboard SE7501HG2 platforms) CDROM will require a workaround until the next release of NetWare 6, which will include ASPI320.SYS and the DOS driver for AIC-790x.

Guideline: The current workaround requires the user to create a bootable floppy diskette with
                  ASPI320.SYS (DOS driver for onboard AIC-7902 SCSI).

                  For the detailed instruction, please refer to README.TXT included in onboard SCSI
                  NetWare 6.0 driver files.

      1. Boot the system to MSDOS from a floppy drive that contains the
         ASPI320.SYS driver and ASPICD.SYS in appropriate device lines in
         config.sys file.

      2. The onboard SCSI controller and SCSI CDROM will be detected correctly.

      3. Change drive from A: to SCSI CDROM drive letter and type `install`.

      4. NetWare 6 should continue with the installation successfully.

Status: The next release of NetWare 6 should include the DOS driver for AIC-790x.

6.10 Cannot detect DVDROM and IDE hard drive on the same IDE channel

Issue: When a Toshiba SD-C2612 slim line DVDROM is connected with IDE HD on the
                  same IDE channel, both IDE the Hard disk and/or the slim line DVDROM may not
                  be detected in POST.

Implication: If an IDE hard disk is connected to the same channel as a SD-C2612 DVD-ROM
                  one or both devices may not be detected.

Guideline: Enter setup and select the Hard Disk Pre-delay parameter (in Main group) add
                  additional time in small increments (up to 30 Seconds) and restart system.

                  During system POST verify the initialization of both IDE devices (DVD & HDD on
                  the same channel) are detected properly. If not, enter setup and add an additional
                  small increment and restart system. Continue this process until both devices are
                  detected properly.

Status: Investigations have determined that adding additional delay during auto-detection
                  phase of IDE devices in POST allowed the devices on the same channel to be
                  detected properly. BIOS release P04; will have the Hard Disk Pre-Delay feature.

6.11 Sony SDX-700c does not function with Microsoft Windows 2000

Issue: The Sony SDX-700c will install on Microsoft Windows 2000 without an error,
              however backup and restore commands will not function correctly.

Implication: If either a backup or a restore are attempted the user will received the following
              error:

```
Rewinding the tape. Please wait…
8mm AIT1 does not contain archive media
The next media required in the active family is not
currently on-line
```

Guideline: None at this time

Status: Microsoft is currently investigating changes to their driver for this issue.

6.12 Sony SDX-700c does not function with Novell NetWare 6.0

Issue: The Sony SDX-700c is detected on Novell NetWare 6.0 installation but warning
              messages are displayed and the device may not function correctly.

Implication: When loading driver at boot time, the following error message may be displayed:

```
NWTAPE-2.0-0
006: WARNING! Device SONY_SDX-700C has not been tested
with this driver.
Driver will attempt generic support. Use at your own
risk!
When backup with command "sbcon"
Device "[V323-A2-D0:0] SONY_SDX-700C" deactivated due to
media dismount
The specified media is not found
```

Guideline: None at this time

Status: Investigations are in progress with Novell.