intel.

Intel® Server Board SE7520BD2/SE7520BD2-D2

Tested Hardware and Operating System List

Revision 2.0

May 12th,2006

Enterprise Platforms and Services Marketing

Revision History

Date	Revision Number	Modifications
August 2004	1.0	Initial Draft
September, 7 2004	1.1	Added several cards and removed [ ] limitation from several cards that had limited testing. Removed Adaptec ASR 3410S,
September 28th, 2004	1.2	Added support for the Intel® SRCZCRX MROMB card. Removed reference to the unsupported Intel® SRCZCR MROMB card.
October 14th, 2004	1.3	Added support for 3 PCI-Express cards.
October 22, 2004	1.4	Added support for the Intel® SRCU42E PCI-Express Card.
November 3, 2004	1.5	Removed Advanced IMM reference which isn't shipping yet.
November 9th, 2004	1.6	Added Fujitsu hard-drives.
January 25th,2006	1.9	Added the supported OSes and APs on SE7520BD2-DDR2 SKUs
May 19th, 2006	2.0	Added RHEL4.0+UP4 OS into THOL as the last time OS refreshment Added newly supported hard drives Added newly supported adapters

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Table of Contents

1. Introduction

This document is intended to provide users of the Intel® server board **SE7520BD2** / **SE7520BD2D2** 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 adapters, peripherals, and operating systems are tested or until the Intel® server board **SE7520BD2/ SE7520BD2D2** is no longer in production. Each new release of the document will present updated information as well as continue to provide the information from previous releases.

Intel will only provide support for those adapters and peripherals under the specified system configuration (System BIOS and Firmware revisions) and operating systems versions with which they were tested.

1.1 Test Overview

Testing performed on the Intel® server board **SE7520BD2/ SE7520BD2D2** 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 **SE7520BD2/ SE7520BD2D2** testing was performed using the Intel® server chassis **SC5300 and SC5275-E**.

2.   Intel® Server Board SE7520BD2/SE7520BD2D2 Base System Configurations

The following table lists the base system configurations tested. Base system configurations will change as new revisions of the Intel® server board **SE7520BD2/ SE7520BD2D2** are released and/or new system BIOS and BMC firmware are cut onto the board in the factory. Each base system configuration is assigned an identifier number that is referenced in the tables throughout this document. New base system 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 Configuration Identifier #	Board Type	PBA Number	BIOS Revision	BMC Firmware Revision (mBMC)	SC5300 HSC Firmware Revision	Notes
1	SE7520BD2S CSI	C44686-701	Production Release 9.00	Ver 22 (2.40)	Ver 1.09 (4 & 6 HDD)	
2	SE7520BD2V	C44688-701	Production Release 9.00	Ver 22 (2.40)	Ver 1.09 (4 & 6 HDD)	
3	SE7520BD2S ATA	C44689-701	Production Release 9.00	Ver 22 (2.40)	Ver 1.09 (4 & 6 HDD)	
4	SE7520BD2S CSID2	D10350-302	Production Release 3.00,	Ver 22 (2.40)	Ver 1.09 (4 & 6 HDD)	
5	SE7520BD2V D2	D10351-303	Production Release 3.00,	Ver 22 (2.40)	Ver 1.09 (4 & 6 HDD)	
6	SE7520BD2 SATAD2	D10352-302	Production Release 3.00,	Ver 22 (2.40)	Ver 1.09 (4 & 6 HDD)	

3.   Supported Operating Systems

The following table provides a list of supported operating systems for the Intel® server board *SE7520BD2/ SE7520BD2D2*. Each of the listed operating systems was tested for compatibility with Intel® server board *SE7520BD2/ SE7520BD2D2* base system configuration listed in Section 2 of this document. Operating systems are supported only with the specified base system configuration(s) with which they were tested.

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 SE7520BD2. 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* Enterprise Server 2003/ Microsoft Windows Small Business Server 2003 +SP1 32bit /EM64T	Configuration 1,2,3 ,4,5,6– Compatibility & Stress	Intel's testing was completed with Microsoft Windows Enterprise Server 2003. The Intel Server Board SE7520BD2 supports the operating system portion of Microsoft Windows Small Business Server 2003 only. The application portion is not tested or supported.
Microsoft Windows Advanced Server 2000 Service Pack 4 / Microsoft Windows Small Business Server 2000	Configuration 1,2,3,4,5,6 – Compatibility & Stress	Intel's testing was completed with Microsoft Windows Advanced Server 2000. The Intel Server Board SE7520BD2 supports the operating system portion of Microsoft Windows Small Business Server 2000 only. The application portion is not tested or supported.
Red Hat Enterprise Linux* Advanced Server 3.0 Updates 5	Configuration 1,2,3,4,5,6 – Compatibility & Stress	
Red Hat Enterprise Linux* Advanced Server 4.0 Updates 2 32bit/64bit	Configuration 1,2,3,4,5,6 – Compatibility & Stress	

Operating System	Base System Configuration Tested & Type of Testing	Notes
Red Hat Enterprise Linux* Advanced Server 2.1	Configuration 1,2,3 ,4,5,6– Basic Installation	
SuSE* Linux 9.1 Professional SP2 32bit/64bit	Configuration 1,2,3,4,5,6 – Basic Installation	
SuSE* Linux 9.0 Enterprise Server SP2 32bit/64bit	Configuration 1,2,3,4,5,6 – Basic Installation	
Novell NetWare* 6.5, Service Pack 4	Configuration 1,2,3,4,5,6 – Compatibility & Stress	
Novell NetWare 5.1, Service Pack 7	Configuration 1,2,3 ,4,5,6– Basic Installation	
SCO UnixWare 7.1.3	Configuration 1,2,3,4,5,6 – Basic Installation	

3.1   Operating System Certifications

Listed below are the operating systems that Intel will certify with the Intel® server board **SE7520BD2/ SE7520BD2D2**. 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* Enterpise 2003	Intel® SE7520BD2 /SE7520BD2 D2 Server	OEM must request certification by Microsoft for their specific product. http://www.microsoft.com/whdc/hcl/search.mspx (Search on SE7520BD2) http://developer.intel.com/design/servers/whql.htm

Operating System	Certification Listing	Comments
Red Hat Enterprise* Linux Advanced Server 3.0	Intel® SE7520BD2 /SE7520BD2 D2 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

4. Adapters and Peripherals

Add-in adapter card and peripheral compatibility and stress testing will only be performed with the latest version of an operating system at the time the validation testing occurred. The following table shows the operating system and base system 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. Limited compatibility testing only.
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, and is not suported under this operating system.
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.

Any variations to the standard adapter installation process or to expected adapter 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.

Manufacturer	Model Name	Model Number	Interface	Comments	Microsoft* Windows* Enterprise 2003 / Small Business Server 2003	Novell NetWare* 6.5, SP1	Red Hat Advanced Linux* 3.0 U1			
4.1 PCI RAID										
Adaptec	ASR-2110S		U160		1,3,4,6	1,4	1,4			
Adaptec	ASR-2100S		U160		1,3,4,6	1,4	1,4			
Adaptec	ASR-2200S		U320		1,2,4,5	1,2,3,4,5, 6	1,2,3,4,5, 6			
Intel	SRCU42L		U320		1,2,3,4,5,6	1,3,4,6	NT			
Intel	SRCU42E			PCI-Express (MCH C4 required)	1,2,3,4,5,6	1,2,3,4,5, 6	1,2,3,4,5, 6			
Intel	SRCZCRX		U320	ZCR Controller	1,2,4,5	1,2,4,5	1,2,4,5			
Intel	SRC42X				1,2,3,4,5,6	1,2,4,5	1,2,3,4,5, 6			
ICP Vortex	GDT8514RZ		U320	ACR Controller	1,2,4,5	1,2,4,5	1,3,4,6			
ICP Vortex	ICP 9024RZ		U320	2ch, U320, PCI-X,	SA	SA	SA			
ICP Vortex	ICP 9014RZ		U320	1ch, U320, PCI-X,	SA	SA	SA			
LSI	MegaRAID SCSI 320-0 (520-0)		U320	ZCR Controller	1,2,(4,5 not tested)	1,2 (4,5 not tested)	1,2(4,5, not tested)			
LSI	MegaRAID 320-1 (520-1)		U320	SCSI	1,2,4,5	1,2,4,5	1,2,4,5			

Manufacturer	Model Name	Model Number	Interface	Comments	Microsoft* Windows* Enterprise 2003 / Small Business Server 2003	Novell NetWare* 6.5, SP1	Red Hat Advanced Linux* 3.0 U1			
LSI	MegaRAID 320-2 (518)		U320		1,4	1,2,4,5	1,2,4,5			
LSI	LSI22320-R		U320	Dual-channel Host Bus	1,2,4,5	1,2,4,5	1,2,3,4,5,6			
LSI	MegaRAID SCSI 320-2E		U320	PCI-Express	1,2,4,5	1,2,4,5	1,2,4,5			
Adaptec	ASR2230-S	ASR2230-S	U320	2ch, U320, PCI-X, Rocket ROC	1,2,4,5	1,2 ,4,5	1,2,4,5			

4.2   PCI SCSI

Adaptec	ASC-29160		SCSI 160		1,2,4,5	1,2,4,5	1,2,4,5			
Adaptec	ASC-39160		Dual SCSI 160		1,2,4,5	1,2,3,4,5,6	1,2,3,4,5,6			
Adaptec	ASC-39320A		U320		NT	1,2,3,4,5,6	1,2,4,5			
Adaptec	ASC-39320ALP		U320		NT	1,2,3,4,5,6	1,2,4,5			
AMI	MegaRAID 475		U160		1,2	1,3,4,6	1,4			

4.3   PCI SATA, ATA

Intel	SRCS16		SATA	6-port	1,2,4,5	1,2,4,5,	1,2,3,4,5,6			
Intel	SRCS14L		SATA	4-port	1,2,4,5	1,2,3,4,5,6	1,2,3,4,5,6			
Intel	SRCS28X		SATA	8-port	1,2,4,5,	1,2,4,5	1,2,4,5			

Manufacturer	Model Name	Model Number	Interface	Comments	Microsoft* Windows* Enterprise 2003 / Small Business Server 2003	Novell NetWare* 6.5, SP1	Red Hat Advanced Linux* 3.0 U1			
ICP Vortex	GDT8568RZ		SATA	8-port	1,2,4,5	1,2,4,5	NT			
LSI	MegaRAID 150-2		SATA	2-port	NT	1,2,4,5	1,2,4,5			
LSI	MegaRAID 150-6		SATA	6-port	1,3,4,6	1,3,4,6	1,3,4,6			
3Ware	8506-8		SATA	8-port	NT	NT	1,2,4,5			
3Ware	9500-8		SATA	8 channel SATA 1.0, RAID 0, 1, 10, 5. PCIX-66 version of 8506-x series	1,2,4,5	1,2,4,5	1,2,4,5			
Promise	FasTrak S150 TX4		ATA		1,2,4,5	1,2,4,5	1,2,4,5			
Promise	FasTrak S150 SX4		SATA	4-port	1,2,4,5	1,2,4,5	1,2,4,5			

4.4   PCI Fiber Channel & HBA

Emulex	LP9002LP		Fiber Channel	Low -profile	NT	1,2,4,5	1,2,4,5			
Emulex	LP9802DC		HBA	Dual-channel Host bus	1,4	1,2,3,4,5,6	1,4			
Qlogic	QLA2342				1,2,4,5	1,2,4,5	1,2,4,5			
Emulex	LP1050Ex	LP1050Ex-F2	PCI Express	1 channel 2Gb FC	1,2,3,4,5,6	1,2,4,5	1,2,4,5			

Manufacturer	Model Name	Model Number	Interface	Comments	Microsoft* Windows* Enterprise 2003 / Small Business Server 2003	Novell NetWare* 6.5, SP1	Red Hat Advanced Linux* 3.0 U1			
Qlogic	QLE2360	QLE2360	PCI Express	@Bg Singles channel PCI Express HBA – LC Multi-mode optic	1,2,3,4,5,6	1,2,3,4,5,6	1,2,3,4,5,6			
Qlogic	QLE2362	QLE2362	PCI Express	2Gb Single channel PCI Express HBA - LC Multi-mode Optic	1,2,4,5	1,2,4,5	1,2,4,5			

4.5   PCI NIC

Manufacturer	Model Name	Model Number	Interface	Comments	Microsoft* Windows* Enterprise 2003 / Small Business Server 2003	Novell NetWare* 6.5, SP1	Red Hat Advanced Linux* 3.0 U1			
DLink	DFE-530/TX*				1,3,4,6	1,2,3,4,5,6	1,3,4,6,			
Emulex	LP10000DC			100Mbps	1,4	1,2,3,4,5,6	NT			
Intel	PILA8470D3		PCI-x133	100Mbps	1,2,3,4,5,6	1,2,3,4,5,6	1,2,34,5,6,			
Intel	PILA8472C3			10/100	1,3,4,6	1,3,4,6	1,4			
Intel	PWLA8490XT			10/100/1000	1,3,4,6	1,3,4,6	1,4			
Intel	PWLA8492MF	PRO/1000MF Gigabit Server Adapter	PCI-X133	10/100/1000	1,2,3,4,5,6	1,2,3,4,5,6	1,2,4,5			
Syskonnect	SK-9E21D	SK-9E210	PCI-Express	10/100/100 LAN based on Mavell 88E8050	1,2,3,4,5,6	1,2,3,4,5,6	1,2,3,4,5,6			

Manufacturer	Model Name	Model Number	Interface	Comments	Microsoft* Windows* Enterprise 2003 / Small Business Server 2003	Novell NetWare* 6.5, SP1	Red Hat Advanced Linux* 3.0 U1			
4.6 Modems										
3COM	USR5610B	56K V.92	PCI-32/33	Internal	1,4	1,4	NT			
4.7 USB/PS2 Devices										
Keytronic	E06101USB-C	E06101USB-C	USB	keyboard	1,4	1,4	1,4			
Keytronic	ProPilot	ProPilot	PS/2	Keyboard	1,4	1,4	1,4			
LOGITECH	Optical Mouse	930582-0403	PS/2 & USB	Mouse	NT	1,4	1,4			
LOGITECH	Internet Navigator	967233-0403	PS/2 & USB	Keyboard	NT	1,4	1,4			
Microsoft	Intellimouse	Intellimouse Optical	PS/2 & USB	Mouse	1,4	1,4	1,4			
Rainbow	Sentinal Duo	Sentinal Duo	USB	USB Security Key	1,4	1,4	ND			
4.8 CDROM Drives										
IOMEGA	CD-RW	32497	USB	external		1,4	1,4			
LG	U2-12X	GCE-8240B	USB			1,4	1,4			
Plextor	PlexWriter 40x12x40U	PX-W4012TU	USB	external		1,4	1,4			
Plextor	PlexWriter 40/12/40S	PX-W4012TS/SW	SCSI-UW	Internal 4.25x1.6		1,4	1,4			
Samsung	SC-152	SC-152	ATA33	Udma, 24x	1,4	1,4	1,4			
Samsung	SN-124q	SN-124q	ATA33	Udma,24x	1,4	1,4	1,4			

Manufacturer	Model Name	Model Number	Interface	Comments	Microsoft* Windows* Enterprise 2003 / Small Business Server 2003	Novell NetWare* 6.5, SP1	Red Hat Advanced Linux* 3.0 U1			
TEAC	CD-232E	CD-232E	ATA33	Udma, 32x slimline	1,4	1,4	1,4			
TEAC	CDWF540/KIT	CDWF540/KIT	USB	External – CD Writer	1,4	1,4	1,4			
TEAC	CD-552E	CD-552E	ATA	CDROM	1,4	1,4	1,4			
TEAC	CD-540E	CD-540E	ATA33	5.25X.05 UDMA, 40X		1,4	NT			
IOMEGA	CD-RW-DVD-ROM 48x24x48	32721	USB	External – CDRW	1,4	1,4	1,4			
Mitsumi	CRMC-FX5401W	N/A	ATA33	54xIDE internal 5.25	1,4	1,4	1,4			

4.9   DVD Drives

Liteon	LSD-081	LSD-081	ATA33	SLIMLINE, 8X DVDROM	1,4	1,4	1,4			
Mitsumi	SR244W1	SR244W1	ATA33	Slimline	NT	1,4	1,4			
Panasonic	SR-8177-B	SR-8177-B	ATA33	UDMA, 8x, DVDROM	NT	1,4	1,4			
Pioneer	DVD-305S	DVD-305S	SCSI-N	6x/32x, DVDROM (5.24x1.6)	NT	1,4	1,4			
Samsung	SD-616	SD-616	ATA33		1,4	1,4	1,4			
Sony	DRU500AX	DRU500AX	N/A	24xCDR, 16xCD-RW, 32xCO	NT	1,4	1,4			

Manufacturer	Model Name	Model Number	Interface	Comments	Microsoft* Windows* Enterprise 2003 / Small Business Server 2003	Novell NetWare* 6.5, SP1	Red Hat Advanced Linux* 3.0 U1			
Sony	DRU-510A	DRU-510A	ATA33	5.25x1.6, 24xCDR	NT	1,4	1,4			
Sony	DRX-510UL	DRX-510L	USB2.0	External,24x CDR, 15xCD-RW	NT	1,4	1,4			
TEAC	DV-28E-BP3	DV-28E-BP3	ATA33	Slimline.8x-	1,4	1,4	1,4			
Toshiba	SD-C2312	SD-C2312	ATA33	DVDROM	NT	1,4	1,4			
Toshiba	SD-M1401	SD-M1401	SCSI-N	10X/40X	NT	1,4	1,4			
Toshiba	SD-C2512	SD-C2512	ATA33	Slimline, 8x-Speed-DVDROM	NT	1,4	1,4			
Toshiba	SD-M1712	SD-M1712	ATA33	DVD-ROM, 48x	1,4	1,2,4,5	1,4			
Panasonic	CW-8123B	CW-8123B	ATA	Slimline 70MB	NT	1,4	1,4			
Pioneer	DVR-S606	DVR-S606	USB2.0	External	NT	1,4	1,4			
Plextor	PlexWriter	PlexWriter	USB	External	1,4	1,4	1,4			

4.10 Tape Drives

Manufacturer	Model Name	Model Number	Interface	Comments	Microsoft* Windows* Enterprise 2003 / Small Business Server 2003	Novell NetWare* 6.5, SP1	Red Hat Advanced Linux* 3.0 U1			
Quantum	BH2AA-YF	DLT, VS160	SCSI-U2	5.s5x16 80GB support	NT	NT	1,4			
Quantum	BHHAA-YF	DLT, VS80	SCSI-U2	5.25x1.6	NT	NT	1,4			
Quantum	TRS23BA-YF	Super DLT	SCSI-U2	5.25x3.25	NT	NT	1,4			
Seagate	STD2401L-W-S	Scorpion 40	SCSI-U2	5.25x1.6	NT	NT	1,4			
Sony	SDX700C/BM	AIT-3 Desktop	SCSI-U150	3.5x1.6	NT	NT	1,4			

Manufacturer	Model Name	Model Number	Interface	Comments	Microsoft* Windows* Enterprise 2003 / Small Business Server 2003	Novell NetWare* 6.5, SP1	Red Hat Advanced Linux* 3.0 U1			
Sony	SDX-SC500C/BM	AIT-2 Desktop	SCSI-U2 – 50GB	3.5x1.6	NT	NT	1,4			

4.11 Removable Drives

Iomega	32324	Zip 750MB Internal ATADRIVe	ATA	External	1,4	1,4	1,4			
Maxtor	5000XT	S01J250	USB	External	1,4	1,2,3,4,5,6	1,4			
Mitsumi	D353F3	D353F3	Slimline	Floppy	1,4	1,4	1,4			
TEAC	FD-235HF	FD235HF	3.5' Floppy	External	1,4	1,4	1,4			
Sony	PCGA-UFD5	VAIO Extern USB	USB	3.5" Floppy	1,4	1,4	1,4			
IBM	22P9025	22P9025	USB	Diskt ON Key	NT	NT	1,4			

4.12 KVM

5.   Hard Disk Drives

The hard drives listed in the following table have been tested with the Intel® server board **SE7520BD2** by Intel in its validation labs and/or by individual drive vendors. The following operating system identifiers are used in the table to specify which OS each drive was tested under.

Identifier number	Operating System
1	Microsoft Windows* 2003 Advanced Server
2	Novell NetWare* 6.5 SP1
3	Red Hat Advanced Linux* 3.0 U1

Note that not all hard drives were 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.
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)	Tested Operating Systems	Notes
SCSI Hard Drives							
Fujitsu	Alegro 8LE	MAP3147NC	U320	10,000	147GB	1,2,3,4,5,6	
Fujitsu	AL 8LE	MAP3367NC	U320	10,000	67GB	1,2,3,4,5,6	
Fujitsu	AL 8LE	MAP3735NC	U320	10,000	35GB	1,2,3,4,5,6	

Manufacturer	Product Family	Model Number	Interface	RPM	Drive size (GB)	Tested Operating Systems	Notes
Hitachi	Ultrastar 146Z10	IC35L146UCDY 10	U320	10,000	146GB	1,2,4,5	
Hitachi	Ultrastar 10K300	IC35L300UCDY 10	U320	10,000	300GB	1,2,4,5,	
Hitachi	Ultrastar 15K73	HUS157373EL3 800	U320	15,000	73GB	1,2,4,5,	
Hitachi	Ultrastar 15K147	HUS154747EL3 800	U320	15,000	147GB	1,2,4,5	
Maxtor	Atlas 10K IV	8B146J0	U320	10,000	146GB	2,5	
Maxtor	Atlass 15K	8C073J0	U320	15,000	73GB	2,5,	
Maxtor	Atlas 10KV	8D300J0	U320	10,000	300GB	2,5,	
Maxtor	Atlas 15K II	8E147J0	U320	15,000	147GB	2,5,	
Seagate	Cheetah 10K.6	ST3146807LC	U320	10,000	146GB	1,2,4,5,	
Seagate	Cheetah 15K.3	ST373453LC	U320	15,000	73GB	1,2,4,5	
Parallel ATA (PATA) Hard Drives							
Hitachi	Deskstar 7K250	HDS722525VLS T80	ATA/100	7200	160GB	1,2,3,4,5,6	
Maxtor	DiamondMax Plus 9	6Y160P0	ATA/133	7200	160GB	1,4	
Maxtor	DiamondMax Plus 9	6Y200P0	ATA/133	7200	200GB	1,2,3,4,5,6	
Seagate	Barracuda ATA V	ST3120023A	ATA/100	n/a	120GB	2,4	
Western Digital	Caviar XL60	WD2000JB	ATA/100	7200	200GB	2,3,5,6	
Western Digital	Caviar	WE1300BB	ATA/100	n/a	120GB	2,3,5,6	
Serial ATA (SATA) Hard Drives							
Hitachi	Deskstar 7K250	HDS722525VLS T80	SATA/150	7200	250GB	1,2,3,4,5,6	
Maxtor	5000XT	S01j250	USB	n/a	250GB	1,2,3,4,5,6	
Maxtor	DiamondPlus 9	67120M0	SATA/150	7200	160GB	2,3,5,6	
Seagate	Barracude 7200.7	ST3160023AS	SATA/150	7200	160GB	2,3,5,6	
Seagate	Barracude	ST3302003AS	SATA/150	7200	200GB	2,3,5,6,	
Seagate	Barracuda	ST3120023AS	SATA/150	7200	120GB	1,2,3,4,5,6	
Seagate	Barracuda	ST3120814A	ATA-133	7200	120GB	1,2,3,4,5,6	8MB cache
Seagate	Barracuda	ST3120813AS	SATA/150	7200	120GB	1,2,3,4,5,6	8MB cache
Western Digital	Caviar XL107RE	WD3200SD-01KNB0	SATA/150	7200	320GB	2,3,5,6	8MB cache

Manufacturer	Product Family	Model Number	Interface	RPM	Drive size (GB)	Tested Operating Systems	Notes
Western Digital	WD Raptor	WD360GC	SATA/150	10,000	36GB	2,3,5,6	
Western Digital	WD Raptor	WE740GB	SATA/150	10,00	74GB	2,3,5,6	

6. Installation Guidelines

6.1 Emulex* LP1050Ex and Qlogic* QLE2360 Fibre Channel Adapters Experience Delayed Write Failures during Extended Stress Testing

Issue: During Intel's extended stress test runs, fibre channel hard drives attached to the Emulex* LP1050Ex or Qlogic QLE2360 PCI Express fibre channel adapters begin experiencing delayed write failures and were eventually marked offline. These failures have only been seen when running under Microsoft* Windows* Server 2003. Failures have not been seen when running under Novell* NetWare* 6.5 or Red Hat* Advanced Server 3.0.

Implication: Fiber channel hard drives may experience delayed write failures or the hard drives may be marked offline if the Emulex* LP1050Ex or Qlogic QLE2360 PCI Express fiber channel adapters are utilized in combination with the Intel® Server Board SE7320SP2, SE7520BD2, SE7520AF2, SE7520JR2, or SE7320VP2 and the Microsoft* Windows* Server 2003 operating system, if the system is subjected to extended periods of intensive I/O application stress.

Guideline: The Emulex* LP1050Ex or Qlogic QLE2360 PCI Express fibre channel adapters should not be utilized with the Intel® Server Board SE7320SP2, SE7520BD2, SE7520AF2, SE7520JR2, or SE7320VP2 with the Microsoft* Windows* Server 2003 operating system. The Emulex LP1050Ex or Qlogic QLE236x PCI Express fibre channel adapters may be used with these server boards with Novell* NetWare* 6.5 or Red Hat* Advanced Server 3.0.

Status: Intel is currently working with Emulex and Qlogic to investigate a fix for this issue.

6.2 Adapter is supported only with Intel Server Board SE7520BD2 with C4 or later stepping Intel® E7525 server chipset (i.e. SRCU42E)

Issue: This adapter has only been tested with Intel Server Board **SE7520BD2** that utilize C4 or later stepping Intel® E7525 server chipsets (PBA # **C44689-701, C44688-701, C444686-701** or later revisions).
Implication: This adapter has not been tested with and is not recommended for use with Intel Server Board SE7520BD2 that utilize C2 stepping Intel® E7525 server chipsets (PBA # **C44689-605, C44688-605, C44686-605**). Please reference TA **707-03** for further information.
Guideline: This adapter has not been tested with and is not recommended for use with Intel Server Board SE7520BD2 that utilize C2 stepping Intel® E7525 server chipsets (PBA # **C44689-605, C44688-605, C44686-605**). Please reference TA **707-03** for further information.
Status: The MCH component stepping change implemented on the Intel Server Board **SE7520BD2** in early Q4 2004 added support for broad PCI Express* adapter

           add-in cards.

6.3   Adapter is supported only with Intel Server Board SE7520BD2 with C4 or later stepping Intel® E7525 server chipset

Issue:	This adapter has only been tested with Intel Server Board **SE7520BD2** that utilize C4 or later stepping Intel® E7525 server chipsets (PBA # **XXXXXX-XXX** or later revisions).
Implication:	This adapter has not been tested with and is not recommended for use with Intel Server Board SE7520BD2 that utilize C2 stepping Intel® E7525 server chipsets (PBA # **XXXXXX-XXX**). Please reference TA **XXX-XX** for further information.
Guideline:	This adapter has not been tested with and is not recommended for use with Intel Server Board SE7520BD2 that utilize C2 stepping Intel® E7525 server chipsets (PBA # **XXXXXX-XXX**). Please reference TA **XXX-XX** for further information.
Status:	The MCH component stepping change implemented on the Intel Server Board **SE7520BD2** in early Q4 2004 added support for broad PCI Express* adapter add-in cards.

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