



Intel[®] Server Board *SE7320VP2*

Tested Hardware and Operating System List

Revision 8.5

October, 2006

Enterprise Platforms and Services Marketing

Revision History

Date	Revision Number	Modifications
September 2004	1.0	Initial Release
November 2004	2.0	Update list after C2 to C4 MCH transition
January, 2005	3.0	Update list with some new Hard Drives
January, 2005	4.0	Update SA (Similar Adapter) list for PCI FC adapters
February, 2005	5.0	Update Hard Drive List with latest Seagate* Barracuda* Hard Drives,
March, 2005	6.0	Updated the Supported OS table in Section 3: Supported Operating Systems to add listing of Microsoft* Windows* Small Business Server operating systems for Intel® Server Boards that support Microsoft Windows Server operating systems, and a note describing the support commitment.
May, 2005	7.0	Update adaptor list with SE7320VP2 DDR2 SKU configuration in addition to OS list change, removal of two Promise RAID cards
August, 2005	8.0	Update adaptor list with SE7320VP2 new FAB DDR1 SKU configuration, OS list and WHQL
September, 2005	8.1	Update adapters, peripherals and hard disk drives' OS support with Red Hat Enterprise Linux 4.0 and Windows 2003 EE EM64T
September, 2005	8.2	Add 4.4 Infiniband section
November, 2005	8.3	Update Hard Drivers section.
February, 2006	8.4	Update adaptor list with SE7320VP2 DDR2 RoHS compliant SKU board configuration and regression test run result of adaptors and peripherals.
October, 2006	8.5	Update Hard Drive List with Seagate Barracuda* Hard Drives

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1. Introduction

This document is intended to provide users of the Intel® server board *SE7320VP2* 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 *SE7320VP2* 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 *S7320VP2* 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 *SE7320VP2* testing was performed using the Intel® Server Chassis *SR1400LC*. Together this board and chassis combination is known as the Server Platform *SR1435VP2*.

2. Intel® Server Board SE7320VP2 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 *SE7320VP2* 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	FRU/SDR	Notes
1	SE7320VP2	C63184-603	P01	2.40	1.10	
2	SE7320VP2	C63184-604	P02	2.40	1.30	
3	SE7320VP2 (DDR2)	D10582-202	P04	2.40	1.70 (6.6.H)	
4	SE7320VP2	C63184-701	P05	2.40	1.70 (6.6.H)	This is the configuration for new FAB of SE7320VP2 DDR SKU
5	SE7320VP2 (DDR2)	D10582-250	P07	2.40	2.00(6.6.K)	This is the configuration for SE7320VP2 DDR2 RoHS complaint SKU

3. Supported Operating Systems

The following table provides a list of supported operating systems for the Intel® server board SE7320VP2. Each of the listed operating systems was tested for compatibility with Intel® server board SE7320VP2 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 is 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 SE7320VP2. 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 2003 Enterprise Edition, SP 1 / Microsoft* Windows Small Business Server 2003	Configuration 1, 2, 3 & 4 – Compatibility & Stress	Intel's testing was completed with Microsoft* Windows Server 2003. The Intel Server Board SE7320VP2 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, SP4 / Microsoft* Windows Small Business Server 2000	Configuration 1, 2, 3 & 4 – Compatibility & Stress	Intel's testing was completed with Microsoft* Windows 2000 Server. The Intel Server Board SE7320VP2 supports the operating system portion of Microsoft Windows Small Business Server 2000 only. The application portion is not tested or supported.
RedHat* Enterprise Linux 3.0, update 3	Configuration 1, 2 & 3– Compatibility & Stress	
Novell* NetWare 6.5, SP3	Configuration 1, 2, 3 & 4–	

	Compatibility & Stress	
SuSE* 9 Enterprise Linux, SP1	Configuration 1, 2, 3 & 4– Compatibility & Stress	
SuSE* Professional Linux 9.1	Configuration 1, 2 & 3 – Basic Installation only	
RedHat* Advanced Server 2.1, update 4	Configuration 1, 2, 3 & 4 – Basic Installation only	
Novell* NetWare 5.1, SP7	Configuration 1, 2, 3 & 4– Basic Installation only	
Microsoft* Windows Server 2003 EE for EM64T	Configuration 1, 2, 3 & 4– Compatibility & Stress	
RedHat* Enterprise Linux 3.0, update 3, EM64T	Configuration 1, 2, & 3– Compatibility & Stress	
SuSE* 9 Enterprise Linux, EM64T, SP 1	Configuration 1, 2 & 3 – Compatibility & Stress	
RedHat* Enterprise Linux 4.0, UP1	Configuration 4 – Compatibility & Stress	
RedHat* Enterprise Linux 4.0 (EM64T), UP1	Configuration 4 – Compatibility & Stress	

3.1 Operating System Certifications

Listed below are the operating systems that Intel will certify with the Intel® server board S7320VP2. 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 2003 Enterprise Edition	WHQL ID: 904618 (DDR) WHQL ID: 974925 (DDR2)	http://developer.intel.com/design/servers/whql.htm
Microsoft* Windows 2000 Advanced Server		WHQL logos for Windows2000 is not required after Nov.1, 2004.
RedHat* Enterprise Linux 3.0	In process	
RedHat* Enterprise Linux 3.0, EM64T	In process	

Operating System	Certification Listing	Comments
Novell* Netware 6.5	Certified ID 79582, 79583 (DDR) Certified ID 81230, 81231 (DDR2)	http://developer.novell.com/yes/79582.htm http://developer.novell.com/yes/79583.htm http://developer.novell.com/yes/81230.htm http://developer.novell.com/yes/81231.htm
Microsoft* Windows Server 2003 EE for EM64T	WHQL ID: 991786 (DDR) WHQL ID: 1002266 (DDR2)	http://developer.intel.com/design/servers/whql.htm

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.
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 supported 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* 2003 EE	Microsoft Windows 2000 AS	Red Hat Enterprise Linux 3.0	Novell Netware 6.5	Microsoft Windows* 2003 EE EM64T	Red Hat Enterprise Linux 4.0
4.1 PCI RAID										
3Ware	8506-8(PCI-Med)	8506-8	PCI 64/66	SATA RAID, 8 channel	1	1	1	ND		
3Ware	8506-12	8506-12	PCI 64/66	SATA RAID, 12 channel	SA	SA	SA	SA		
3Ware	8506-4LP	8506-4LP	PCI 64/66	SATA RAID, 4 channel	SA	SA	SA	SA		
Adaptec	AAR-2410SA(PCI-Med)	AAR-2410SA	PCI 64/66	SATA RAID, 4 channel	1, 2	1, 2	1, 2	1, 2		
ICP Vortex	GDT8586RZ(PCI-Med)	GDT8586RZ	PCI 64/66	SATA RAID, 8 channel	1	1	1	1		
Intel	SRCS16(PCI-Med)	SRCS16	PCI 64/66	SATA RAID, 6 channel	1, 3, 5	1, 3	1, 3	1, 3, 5	5	5
LSI	MegaRAID SATA 150-6(PCI-Short)	MegaRAID SATA 150-6	PCI 64/66	SATA RAID, 6 channel	3	3	3	3		
LSI	MegaRAID SATA 150-4(PCI-Short)	MegaRAID SATA 150-4	PCI 64/66	SATA RAID, 4 channel	SA	SA	SA	SA		
Intel	SRCS28X	SRCS28X	PCI-X 133	SATA RAID, 8 channel	4, 5	4	NT	4, 5	5	5
LSI Logic	MegaRAID SATA 300-8X	MegaRAID SATA 300-8X	PCI-X 133	SATA RAID, 8 channel	4, 5	4		4, 5	4, 5	4, 5
Intel	SRCS14L	SRCS14L	PCI 64/66	SATA RAID, 4 channel	4	4	NT	4	4	
Intel	SRCU42E(PCI-Med)	SRCU42E	PCI-E X8	SCSI RAID, U320, 2 channel	3, 5	3	3	3, 5	5	5
Intel	SRCU42L(PCI-LP/RP)	SRCU42L	PCI 64/66	SCSI RAID, U320, 2 channel	3	3	3	3		
LSI	MegaRAID SCSI 320-2(PCI-Short)	MegaRAID SCSI 320-2	PCI 64/66	SCSI RAID, U320, 2 channel	3	3	3	3		
LSI	MegaRAID SCSI 320-1(PCI-LP/RP)	MegaRAID SCSI 320-1	PCI 64/66	SCSI RAID, U320, 1 channel	SA	SA	SA	SA		
LSI	MegaRAID SCSI 320-2E(PCI-Med)	MegaRAID SCSI 320-2E	PCI-E X8	SCSI RAID, U320, 2 channel	3, 5	3	3	3, 5	4, 5	5

Manufacturer	Model Name	Model Number	Interface	Comments	Microsoft Windows* 2003 EE	Microsoft Windows 2000 AS	Red Hat Enterprise Linux 3.0	Novell Netware 6.5	Microsoft Windows* 2003 EE EM64T	Red Hat Enterprise Linux 4.0
Adaptec	ASR-2110S	ASR-2110S	PCI 64/66	SCSI RAID, U160, 1 channel	4	4	NT	[4]	4	
Adaptec	ASR-4800SAS	ASR-4800SAS	PCIX 133	8 ports SAS RAID	5			5	5	5
Intel	SRCSAS18E	SRCSAS18E	PCI-E	8 ports SAS RAID	5			5	5	5
Intel	SRCU42X(PCI-short)	SRCU42X	PCIX 133	U320, 2 channel	1, 2, 5	2	1, 2	2, 5	5	5

4.2 PCI SCSI

Adaptec	ASC-29320ALP (PCI-LP/RP)	ASC-29320ALP	PCIX 133	U320, 2 channel	1, 3	3	1	NT	4	
Adaptec	ASC-29320A (PCI-short)	ASC-29320A	PCIX 133	U320, 2 channel	SA	SA	SA	SA		
Adaptec	ASC-39320	ASC-39320	PCI 64/66	U320, 2 channel	[5]			5	[5]	5
LSI Logic	LSI22320-R(PCI-short)	LSI22320-R	PCIX 133	U320, 2 channel	1, 2, 3, 5	1, 2, 3	1, 2, 3	1, 2, 3, 5	5	5
LSI Logic	LSI22320E-R(PCI-Short)	LSI22320E-R	PCI-E X4	U320, 2 channel	3	3	3	3	4	
LSI Logic	LSI20320LP-R(PCI-LP/RP)	LSI20320LP-R	PCIX 133	U320, 1 channel	SA	SA	SA	SA		
LSI Logic	LSI20160L	LSI20160L	PCI 32/33	U160, 1 channel	4	4		[4]	4	4
LSI Logic	LSI20160	LSI20160	PCI 32/33	U160, 1 channel	SA	SA	SA	SA		

4.3 PCI Fiber Channel

Emulex	LP9002L(PCI-short)	LP9002L	PCI 64/66	1 channel 1Gb	1	1	[1]	1		
Emulex	LP952L	LP952L-F2	PCI 64/66	1 channel 1Gb	SA	SA	SA	SA		
Emulex	LP9802DC(PCI-LP/RP)	LP9802DC	PCIX 133	2 channel 2Gb	1, 3	1, 3	[1], 3	[1]		
Emulex	LP9802	LP9802-F2	PCIX 133	1 channel 2Gb, LP	SA	SA	SA	SA		
Emulex	LP982	LP982-F2	PCIX 133	1 channel 1Gb	SA	SA	SA	SA		
Emulex	LP10000DC(PCI-LP/RP)	LP10000DC	PCIX 133	2 channel 2Gb	1, 2	1, 2	1, 2	1, 2		

Manufacturer	Model Name	Model Number	Interface	Comments	Microsoft Windows* 2003 EE	Microsoft Windows 2000 AS	Red Hat Enterprise Linux 3.0	Novell Netware 6.5	Microsoft Windows* 2003 EE EM64T	Red Hat Enterprise Linux 4.0
Emulex	LP10000(LP/RP)	LP10000	PCIX 133	1 channel 2Gb	SA	SA	SA	SA		
Emulex	LP1050DC (LP/RP)	LP1050DC	PCIX 133	2 channel 2Gb	SA	SA	SA	SA		
Emulex	LP1050(LP/RP)	LP1050	PCIX 133	1 channel 2Gb	SA	SA	SA	SA		
Emulex	LP10000DC-EX (LP/RP)	LP10000DC-EX	PCI-E X4	2 channel 2Gb	2	2	2	2		
Emulex	LP1050EX-F2 (PCI-short)	LP1050EX-F2	PCI-E X4	2 channel 2Gb	2	2	2	2		
Qlogic	QLA2342	QLA2342	PCIX 133	2 channel 2Gb	1, 2	1, 2	1, 2	1, 2		
Qlogic	QLA2340	QLA2340	PCIX 133	1 channel 1Gb	SA	SA	SA	SA		
Qlogic	QLE2360 (PCI-short)	QLE2360	PCI-E X4	1 channel 2Gb	2	2	2	2		
Qlogic	QLE2362 (PCI-short)	QLE2362	PCI-E X4	1 channel 2Gb	4	4		4	4	4
4.4 Infiniband										
SilverStorm	HCA9000	HCA9000	PCI-E X8	128MB or 256MB	3	ND	3	ND		
4.5 PCI NIC										
3COM	Etherlink 10/100 PCI	3C980C-TXM	PCI 32/33		1	1	1	1		
3COM	Etherlink 10/100 PCI	3C905CX-TXM(PCI-short)	PCI 32/33	WOL	1	1	1	1		
3COM	Gigabit Server Adapter	3C996B-T	PCIX 133		1, 3	1, 3	1, 3	1, 3		
SYSKnect	SK-9E21D	SK-9E21D	PCI-E X1	10/100/1000L AN	2	2	2	2		
Intel	PRO/100+ S Server Adapter(PCI-short)	PILA8470D3	PCI 32/33		1, 3	1, 3	1, 3	1, 3		
Intel	PRO/100+ S Server Adapter(PCI-short)	PILA8470C3	PCI 32/33		SA	SA	SA	SA		
Intel	PRO 100S Dual Port (PCI-short)	PILA8472C3	PCI 64/66		1, 4	1, 4	1	1, 4	4	4
Intel	PRO/1000MT Gigabit Server Adapter(PCI-LP/RP)	PWLA8490MT	PCIX 133		1, 4	1, 4	1	1, 4	4	4

Manufacturer	Model Name	Model Number	Interface	Comments	Microsoft Windows* 2003 EE	Microsoft Windows 2000 AS	Red Hat Enterprise Linux 3.0	Novell Netware 6.5	Microsoft Windows* 2003 EE EM64T	Red Hat Enterprise Linux 4.0
Intel	PRO/1000MT Gigabit Server Adapter(PCI-LP/RP)	PWLA8490MF	PCIX 133	100baseLC, Fiber, No bridge	SA	SA	SA	SA		
Intel	PRO/1000XT Gigabit Server Adatper	PWLA8490XT	PCIX 133	PCI short	1, 2	1, 2	1, 2	1, 2		
Intel	PRO/1000XT Gigabit Server Adatper	PWLA8490XF	PCIX 133	1000baseSX, Fiber	SA	SA	SA	SA		
Intel	PRO/1000XT Gigabit Server Adatper	PWLA8490XFL	PCIX 133	LP, 10/100/1000 baseT	SA	SA	SA	SA		
Intel	PRO/1000XT Gigabit Server Adatper	PWLA8490XTL	PCIX 133	LP, 10/100/1000baseT	SA	SA	SA	SA		
Intel	PRO/1000MT Dual Port Gigabit Adapter	PWLA8492MT	PCIX 133	LP/RP	1, 3, 5	1, 3	1, 3	1, 3, 5	5	5
Intel	PRO/1000MT Dual Port Gigabit Adapter	PWLA8492MF	PCIX 133	Dual port, Fiber, No bridge	SA	SA	SA	SA		
Intel	PRO/1000PT	EXPI9400PT	PCI-E X1	1 port, 1000 baseT, PCI short	5				5	
Intel	PRO/1000PT Dual Port	EXPI9402PT	PCI-E X4	2 ports, 1000 baseT, PCI short	5			5	5	5
Intel	PRO/1000PT	EXPI9300PT	PCI-E X1	1 port, 1Gbe, PCI short	5			5	5	5

4.6 Modems

3COM	USR5610B 56K V.92 Performance Pro (PCI-short)	USR5610B	PCI 32/33		1, 3	1, 3	1, 3	[1], 3	4	
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4.7 Human Interface Devices

Keytronic	PROPilot	PROPilot	PS/2	Keyboard	1, 4	1, 4	1	1, 4	4	4
Logitech	Optical Mouse	930582-0121	USB	Mouse	1, 4	1, 4	1	1, 4	4	4
Logitech	Optical Mouse	930582-0403	USB	Mouse	SA	SA	SA	SA		
Logitech	Internet Navigator	967233-0121	USB	Keyboard	1, 3	1, 3	1, 3	1, 3		
Logitech	Internet Navigator	967233-0403	USB	Keyboard	SA	SA	SA	SA		
Logitech	Optical Mouse	931145-403	PS/2 and USB	Mouse	5			5	5	5

Manufacturer	Model Name	Model Number	Interface	Comments	Microsoft Windows* 2003 EE	Microsoft Windows 2000 AS	Red Hat Enterprise Linux 3.0	Novell Netware 6.5	Microsoft Windows* 2003 EE EM64T	Red Hat Enterprise Linux 4.0
Logitech	Media Keyboard	967415-0403	PS/2 and USB	Keyboard	5			5	5	5
Microsoft	Intellimouse Optical		USB	Mouse	1, 3	1, 3	1, 3	1, 3		
Rainbow	Sentinal Duo Hardware Key	Sentinal Duo	USB	USB Security Key	1	1	NT	NT		
Keytronic	E06101USB-C	E06101USB-C	USB	Keyboard	4	4		4	4	4
AOpen	KB-858	KB858	PS2	Keyboard	5			5	5	5
AOpen	Mini Optical Mouse	O 35M	PS2 and USB	Optical Mouse	5			5	5	5

4.8 CDROM Drives

Mitsumi	SR244W1	SR244W1	ATA 33	24x slimline	1, 3, 4	1, 3, 4	1, 3	1, 3, 4	4	4
Plextor	PX-W4012TS/SW	PX-W4012TS/SW	SCSI	Internal SCSI CDRW 40/12/40x	1	1	1	[1]		
Teac	CDW540E/Kit/USB2	CDW540E/Kit/USB2	USB2.0	External CD Writer (40/12/48x). USB 2.0/1.1	1, 3	1, 3	1, 3	1, 3		
Sony	CRX230AD/K	CRX230AD/K	ATA 33	CDRW 52/32/52X	4	4		4	4	4
Toshiba	SD-R2212	SD-R2212		CDROM	5			5	5	5

4.9 DVD Drives

Pioneer	DVR-S606	DVR-S606	USB2.0		1	1	1	1		
Toshiba	SD-R2512	SD-R2512	ATA33	Slimline DVD	1	1	1	1		
Panasonic	UJDA750	UJDA750	ATA 33	Slimline DVD combo	1, 5	1	1	1, 5	5	5
Panasonic	CW-8123B	CW-8123B	ATA	Slimline DVD combo	3	3	3	3		
Teac	DV-28EB-93	DV-28E-BP3	ATA33	Slimline DVD	3, 4, 5	3, 4	3	3, 4, 5	4, 5	4, 5
Lite On	SOHC-5235K	SOHC-5235K	ATA33	CDRW/DVD combo, 52/32X Write, 52/16X read	4	4		4	4	4
Lite On	LSC-24082KX	LSC-24082KX	USB 2.0	CDRW/DVD combo, 24/24/24X, 8X DVD	4	4		4	4	4

Manufacturer	Model Name	Model Number	Interface	Comments	Microsoft Windows* 2003 EE	Microsoft Windows 2000 AS	Red Hat Enterprise Linux 3.0	Novell Netware 6.5	Microsoft Windows* 2003 EE EM64T	Red Hat Enterprise Linux 4.0
Sony	CRX-835E	CRX-835E	ATA33	CDRW/DVD combo	4	4		4	4	4
Sony	DRX-720UL	DRX-720UL	USB 2.0	DVD/RW						
HLDS	GCC-4521BI	GCC-4521BI	ATA33	CDRW/DVD combo, 52/52/16X	4	4		4	4	4
HLDS	GSA-4166B	GSA-4166B	ATA33	DVD/RW	5			5	5	5

4.10 Tape Drives

Sony	SDX-700C/BM	AIT-3 Desktop	SCSI	100GB native, 12MB/s	1	[1]	1	NT		
Certance	Certance DAT 40	STD2401LW-S	SCSI	20/40GB DAT DDS4 5.25HH	4	4		[4]	4	4

4.11 Removable Drives

Mitsumi	D353F3	D353F3	Floppy	Slimline 3.5" floppy driver	1, 3, 4	1, 3, 4	1, 3	1, 3, 4	4	4
Mitsumi	D353FUE	D353FUE	Floppy	3.5" USB Floppy	5			NT	5	5
IOMega	Zip 750MB USB 2.0	32324	USB	External Zip750	1, 4	1, 4	1	1, 4	4	4
Sony	VAIO External USB floppy	PCGA-UFD5	USB	3.5" Floppy drive	1	1	1	1		
Teac	FDO5PUB	FDO5PUB	USB	1.44MB, 3.5" Floppy	1, 3	1, 3	1, 3	1, 3		
Maxtor	S01J250	5000XT	USB & Firewire	External 250GB HD	1, 3, 4, 5	1, 3, 4	1, 3	1, 3, 4, 5	4, 5	4, 5
Addonics	Combo HD Kit	AEMED35AUM	USB2.0	USB to ATA HD converter	1	1	1	1		
M-System	MD1150-D512	MD1150-D512	ATA133	512MB DOC	1	1	1	1		

4.12 KVM

Avocent	1160ES	1160ES	PS/2	16 port	1	1	1	1		
Belkin	Omniview PRO2	F1DA108T	PS/2	8 port	1, 4	1, 4	1	1, 4	4	4

4.13 Graphic Adapter

ATI	RADEON 7500(PCI-Med)	RADEON 7500	PCI 32/33	Dual output	1, 3	1, 3	1, 3	1, 3		
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Manufacturer	Model Name	Model Number	Interface	Comments	Microsoft Windows* 2003 EE	Microsoft Windows 2000 AS	Red Hat Enterprise Linux 3.0	Novell Netware 6.5	Microsoft Windows* 2003 EE EM64T	Red Hat Enterprise Linux 4.0
Matrox	Millennium G450 (PCI-Med)	G45FMDVP32DB	PCI32/33	Dual output	1, 3	1, 3	1, 3	1, 3		

Notes:

* stands for this adaptor or peripheral has been tested and is supported by Red Hat Enterprise Linux 4.0 under configuration 4.

** stands for this adaptor or peripheral has been tested and is supported by Windows 2003 EE EM64T under configuration 4.

5. Hard Disk Drives

The hard drives listed in the following table have been tested with the Intel® server board SE7320VP2 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 Enterprise Edition
2	Microsoft Windows* 2000 Advanced Server
3	Red Hat Enterprise Linux 3.0
4	Novell* Netware* 6.5 SP2
5	Red Hat Enterprise Linux 4.0
6	Microsoft Windows* 2003 Enterprise Edition EM64T

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 SCSI SCA	10,000	147GB	1,2,3,4	Validated on configuration 3 also
Fujitsu	Alegro 8LE	MAP3367NC	U320 SCSI SCA	10,000	36GB	SD,SD,SD,SD	
Fujitsu	Alegro 8LX	MAS3735NC	U320 SCSI SCA	15,000	73GB	1,2,3,4	
Maxtor	Atlas 10K IV	8B146J0	U320 SCSI SCA	10,000	146GB	1,2,3,4	
Maxtor	Atlas 10K IV	8B074J0	U320 SCSI SCA	10,000	74GB	SD,SD,SD,SD	
Maxtor	Atlas 10K IV	8B036J0	U320 SCSI SCA	10,000	36GB	SD,SD,SD,SD	
Maxtor	Atlas 10K V	8D300J0	U320 SCSI SCA	10,000	300GB	1,2,3,4,5,6	Validated on configuration 4 also
Maxtor	Atlas 10K V	8J300J0	U320 SCSI SCA	10,000	300GB	SD, SD,SD,SD	
Maxtor	Atlas 10K V	8D147J0	U320 SCSI SCA	10,000	147GB	SD,SD,SD,SD	
Maxtor	Atlas 10K V	8D073J0	U320 SCSI SCA	10,000	73GB	SD,SD,SD,SD	
Maxtor	Atlas 15K	8C073J0	U320 SCSI SCA	15,000	73GB	1,2,3,4	Validated on configuration 3 also
Maxtor	Atlas 15K	8C036J0	U320 SCSI SCA	15,000	36GB	SD,SD,SD,SD	
Maxtor	Atlas 15K	8C018J0	U320 SCSI SCA	15,000	18GB	SD,SD,SD,SD	
Maxtor	Atlas 15K II	8E147J0	U320 SCSI SCA	15,000	147GB	1,2,3,4, 5, 6	
Maxtor	Atlas 15K II	8K147J0	U320 SCSI SCA	15,000	147GB	SD, SD,SD, SD	
Maxtor	Atlas 15K II	8E073J0	U320 SCSI SCA	15,000	73GB	SD,SD,SD,SD	
Maxtor	Atlas 15K II	8E036J0	U320 SCSI SCA	15,000	36GB	SD,SD,SD,SD	
Seagate	Cheetah 10K.6	ST3146807LC	U320 SCSI SCA	10,000	146GB	1,2,3,4	
Seagate	Cheetah 10K.6	ST336607LC	U320 SCSI SCA	10,000	36GB	SD,SD,SD,SD	
Seagate	Cheetah 10K.6	ST373307LC	U320 SCSI	10,000	73GB	SD,SD,SD,SD	

Manufacturer	Product Family	Model Number	Interface	RPM	Drive size (GB)	Tested Operating Systems	Notes
			SCA				
Seagate	Cheetah 10K.7	ST3300007LC	U320 SCSI SCA	10,000	300GB	1,2,3,4	
Seagate	Cheetah 10K.7	ST346707LC	U320 SCSI SCA	10,000	147GB	SD,SD,SD,SD	
Seagate	Cheetah 10K.7	ST373207LC	U320 SCSI SCA	10,000	73GB	SD,SD,SD,SD	
Seagate	Cheetah X15.3	ST373453LC	U320 SCSI SCA	15,000	73GB	1,2,3,4	
Seagate	Cheetah X15.3	ST336753LC	U320 SCSI SCA	15,000	36GB	SD,SD,SD,SD	
Seagate	Cheetah X15.3	ST318453LC	U320 SCSI SCA	15,000	18GB	SD,SD,SD,SD	
Hitachi	Ultrastar 15K73	HUS157373EL3800	U320 SCSI SCA	15,000	73GB	1,2,3,4	
Hitachi	Ultrastar 15K73	HUS157373EL3600	U320 SCSI 68 pin	15,000	73GB	SD,SD,SD,SD	
Hitachi	Ultrastar 15K73	HUS157336EL3800	U320 SCSI SCA	15,000	36GB	SD,SD,SD,SD	
Hitachi	Ultrastar 15K73	HUS157336EL3600	U320 SCSI 68 pin	15,000	36GB	SD,SD,SD,SD	
Hitachi	DK32EJ	DK32EJ-14	U320 SCSI SCA	10,000	147GB	1,2,3,4	
Hitachi	DK32EJ	DK32EJ-36	U320 SCSI SCA	10,000	36GB	SD,SD,SD,SD	
Hitachi	DK32EJ	DK32EJ-72	U320 SCSI SCA	10,000	72GB	SD,SD,SD,SD	
Hitachi	Ultrastar 10K300	HUS103030FL3800	U320 SCSI SCA	10,000	300GB	1, 4, 5, 6	
Parallel ATA (PATA) Hard Drives							
Hitachi	Deskstar 180GXP	IC35L180AVV207	ATA 100	7,200	180GB	1,2,3,4	
Hitachi	Deskstar 180GXP	IC35L120AVV207	ATA 100	7,200	120GB	SD,SD,SD,SD	
Hitachi	Deskstar 180GXP	IC35L090AVV207	ATA 100	7,200	90GB	SD,SD,SD,SD	
Hitachi	Deskstar 180GXP	IC35L060AVV207	ATA 100	7,200	60GB	SD,SD,SD,SD	
Hitachi	Deskstar 180GXP	IC35L030AVV207	ATA 100	7,200	30GB	SD,SD,SD,SD	
Hitachi	Deskstar 7K250	HDS722516VLAT80	ATA 100	7,200	160GB	1,2,3,4	
Hitachi	Deskstar 7K250	HDS722512VLAT80	ATA 100	7,200	120GB	SD,SD,SD,SD	

Hard Disk Drives

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Manufacturer	Product Family	Model Number	Interface	RPM	Drive size (GB)	Tested Operating Systems	Notes
Hitachi	Deskstar 7K250	HDS722525VLAT 80	ATA 100	7,200	250GB	SD,SD,SD,SD	
Maxtor	DiamondMax Plus 9	6Y200P0	ATA 133	7,200	200GB	1,2,3,4	Validated on configuration 3 also
Maxtor	DiamondMax Plus 9	6Y160P0	ATA 133	7,200	160GB	SD,SD,SD,SD	
Maxtor	DiamondMax Plus 9	6Y120P0	ATA 133	7,200	120GB	SD,SD,SD,SD	
Maxtor	DiamondMax Plus 9	6Y080P0	ATA 133	7,200	80GB	SD,SD,SD,SD	
Seagate	Barracuda 57ATA	ST3160023A	ATA 100	7,200	160GB (8MB cache)	1,2,3,4	Validated on configuration 3 also
Seagate	Barracuda 57ATA	ST3120026A	ATA 100	7,200	120GB (8MB cache)	SD,SD,SD,SD	
Seagate	Barracuda 57ATA	ST380013A	ATA 100	7,200	80GB (8MB cache)	SD,SD,SD,SD	
Western Digital	Caviar SE	WD2000JB	ATA 100	7,200	200GB (8MB cache)	1,2,3,4	
Western Digital	Caviar SE	WD1200JB	ATA 100	7,200	120GB (8MB cache)	SD,SD,SD,SD	
Western Digital	Caviar SE	WD1800JB	ATA 100	7,200	180GB (8MB cache)	SD,SD,SD,SD	
Western Digital	Caviar SE	WD2500JB	ATA 100	7,200	250GB (8MB cache)	SD,SD,SD,SD	
Hitachi	Deskstar 7K400	HDS724040KLAT 80	ATA 100	7,200	400GB	1, 2, 4, 5, 6	
Serial ATA (SATA) Hard Drives							
Maxtor	DiamondMax Plus 9	6Y120M0	SATA-150	7,200	120GB	1,2,3,4	Validated on configuration 3 also
Maxtor	DiamondMax Plus 9	6Y060M0	SATA-150	7,200	60GB	SD,SD,SD,SD	
Maxtor	DiamondMax Plus 9	6Y080M0	SATA-150	7,200	80GB	SD,SD,SD,SD	
Maxtor	DiamondMax Plus 9	6Y160M0	SATA-150	7,200	160GB	SD,SD,SD,SD	
Maxtor	DiamondMax Plus 9	6Y200M0	SATA-150	7,200	200GB	SD,SD,SD,SD	
Maxtor	Maxline II	6Y250P0	SATA-150	7,200	250GB	SD,SD,SD,SD	
Maxtor	DiamondMax 10	6V080E0	SATA-300	7,200	80GB	1, 4, 5, 6	
Seagate	Barracuda 7	ST3200822AS	SATA-150	7,200	200GB	1,2,3,4	

Manufacturer	Product Family	Model Number	Interface	RPM	Drive size (GB)	Tested Operating Systems	Notes
Seagate	Barracuda 7	ST3160827AS	SATA-150	7,200	160GB	SD,SD,SD,SD	
Seagate	Barracuda 7	ST3120827AS	SATA-150	7,200	120GB	SD,SD,SD,SD	
Seagate	Barracuda 7	ST380817AS	SATA-150	7,200	80GB	SD,SD,SD,SD	
Seagate	Barracuda 7	ST3160023AS	SATA-150	7,200	160GB	1,2,3,4	
Seagate	Barracuda 7	ST3120026AS	SATA-150	7,200	120GB	SD,SD,SD,SD	
Seagate	Barracuda 7	ST380013AS	SATA-150	7,200	80GB	SD,SD,SD,SD	
Seagate	Barracuda 9	ST3160812AS	SATA-300	7,200	160GB	1, 4, 5, 6	
Seagate	Barracuda 7200.10 AS	ST3750840AS	SATA-300	7,200	750GB	1	
Seagate	Barracuda 7200.10 AS	ST3500830AS	SATA-300	7,200	650GB	1	
Seagate	Barracuda 7200.10 AS	ST3400820AS	SATA-300	7,200	500GB	1	
Seagate	Barracuda 7200.10 AS	ST3320820AS	SATA-300	7,200	400GB	1	
Seagate	Barracuda 7200.10 AS	ST3300820AS	SATA-300	7,200	320GB	1	
Seagate	Barracuda 7200.10 AS	ST3250820AS	SATA-300	7,200	300GB	1	
Seagate	Barracuda 7200.10 AS	ST3200820AS	SATA-300	7,200	250GB	1	
Seagate	NL35	ST3400632NS	SATA-150	7,200	400GB	1, 4, 5, 6	
Seagate	NL35	ST3400832NS	SATA-150	7,200	400GB	SD, SD, SD, SD	
Hitachi	Deskstar 7K250	HDS722525VLST 80	SATA-150	7,200	250GB	1,2,3,4,5,6	Validated on configuration 4 also
Hitachi	Deskstar 7K250	HDS722516VLST 80	SATA-150	7,200	160GB	SD,SD,SD,SD	
Hitachi	Deskstar 7K250	HDS722512VLST 80	SATA-150	7,200	120GB	SD,SD,SD,SD	
Hitachi	Deskstar 7K250	HDS722580VLST 80	SATA-150	7,200	80GB	SD,SD,SD,SD	
Hitachi	Deskstar T7K250	HDT722525DLA3 80	SATA-150	7,200	250GB	1,2,3,4, 5, 6	
Hitachi	Deskstar T7K250	HDT722516DLA3 80	SATA-150	7,200	160GB	SD,SD,SD,SD	
Hitachi	Deskstar 7K400	HDS724040KLSA 80	SATA-150	7,200	400GB	1,2,3,4	
Hitachi	Deskstar 7K500	HDS725050KLA3 60	SATA-300*	7,200	500GB	1,2,3,4	It is tested under SATA-150 mode
Hitachi	Deskstar 7K80	HDS728080PLAT	SATA-150	7,200	80GB	1,2,3,4	

Hard Disk Drives

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Manufacturer	Product Family	Model Number	Interface	RPM	Drive size (GB)	Tested Operating Systems	Notes
		20					
Hitachi	Deskstar 7K80	HDS728040PLAT20	SATA-150	7,200	40GB	SD,SD,SD,SD	
Western Digital	WD Raptor	WD360GD	SATA-150	10,000	36GB	1,2,3,4	
Western Digital	WD Raptor	WD740GD	SATA-150	10,000	74GB	1,2,3,4	Validated on configuration 3 also
Western Digital	WD Caviar XL 100	WD4000KD-22NAB0	SATA-150	7,200	400GB	1, 4, 5, 6	
SAS Hard Drives							
Seagate	ST336754SS	ST336754SS	SAS	15,000	36GB	1, 4, 5, 6	

Note: Blue shading indicates that the hard disk drive is available in a lead-free version.

6. Installation Guidelines & Test Notes

6.1 SuSE 9.1 Professional Kernel version 2.6.4-52-smp data integrity issue.

Issue:	<p>Silent data corruption can occur when running SuSE Linux 9.1 Professional with the release kernel, 2.6.4-52-smp. This problem was seen across all platforms tested including testing performed on Intel and non-Intel server boards. A newer kernel version (2.6.5-7.75-smp or newer) appears to fix the issue.</p> <p>Intel policy provides server board support only for the major releases of non-enterprise Linux products. This is because interim kernel releases for these operating systems require recompiling the Intel RAID, fibre channel, ROMB, and similar non-shipping drivers. Recompiled drivers would also then need to be re-tested for compatibility when a new Linux kernel is released.</p>
Implication:	Although a base installed is performed using SuSE Linux 9.1, the initial release of this OS is not supported due to data integrity issues within the OS.
Guideline:	Customers wishing to use SuSE 9.1 Professional are advised to recompile the drivers using kernel 2.6.5-7.75-smp or newer; and perform their own validation testing for reliability and compatibility with their system configuration.
Status:	SuSE 9.1 is supported for basic installation only and must be updated to kernel version 2.6.5-7.75-smp or newer.

6.2 Emulex® LP9802DC PCI-X FC host adapter issue under Netware6.5.

Issue:	The Emulex* LP9802DC PCI-X fibre channel host adapter works as expected when in Intel® server board on Microsoft Windows* and supported Linux configurations. However, when the adapter is installed in an Intel system with NetWare 6.5, the driver is not recognized by NetWare. NetWare fails to recognize both driver versions 2.00c and 2.02g. The likely source for this failure is a conflict between the NetWare operating system and the PCI-X bridge chip that is used on the LP9802DC adapter.
Implication:	The Emulex LP9802DC-F2 adapter driver is not recognized by Novell NetWare® 6.5.
Guideline:	The Emulex LP10000DC adapter is a compatible, next generation bridgeless solution, which offers the same feature set with increased performance, works as expected under Novell NetWare 6.5 and has been validated as a supported adapter on current Intel platforms.
Status:	Intel is currently working with Emulex to investigate a fix for this issue