



Intel[®] Server Board SE7221BK1-E

Tested Hardware and Operating System List

Revision 1.7

October, 2006

Enterprise Platforms and Services Division

Revision History

Date	Revision Number	Modifications
October 2004	1.0	Initial Release
November 2004	1.1	Modified adapter, peripheral and HDD lists
November 2004	1.2	Modified supported operating system list
March 2005	1.3	Modified supported operating system list
May 2005	1.4	Modified supported peripherals and board revision info
October 2005	1.5	Modified supported HDD and board revision info
February 2006	1.6	Modified supported HDD and board revision info
October 2006	1.7	Modified supported HDD and board revision infor

Disclaimers

THE INFORMATION IN THIS DOCUMENT IS PROVIDED "AS IS" WITH NO WARRANTIES WHATSOEVER, INCLUDING ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY WARRANTY OTHERWISE ARISING OUT OF ANY PROPOSAL, SPECIFICATION, OR SAMPLE.

Information in this document is provided in connection with Intel® products. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Intel's Terms and Conditions of Sale for such products, Intel assumes no liability whatsoever, and Intel disclaims any express or implied warranty, relating to sale and/or use of Intel products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright or other intellectual property right. Intel products are not intended for use in medical, life saving, or life sustaining applications.

Intel retains the right to make changes to its test specifications at any time, without notice.

The hardware vendor remains solely responsible for the design, sale and functionality of its product, including any liability arising from product infringement or product warranty.

Copyright © Intel Corporation 2003. All rights reserved.

Intel, the Intel logo, and EtherExpress are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

*Other names or brands may be claimed as the property of others.

Table of ContentsI

1. Introduction	1
1.1 Test Overview	1
1.1.1 Basic Installation Testing	1
1.1.2 Adapter / Peripheral Compatibility and Stress Testing	2
1.2 Pass/Fail Test Criteria	3
2. Intel® Server Board SE7221BK1-E Base System Configurations	4
3. Supported Operating Systems.....	5
3.1 Operating System Certifications	5
4. Adapters and Peripherals.....	7
4.1 PCI RAID	8
4.2 PCI SCSI	9
4.3 PCI Fiber Channel	9
4.4 PCI NIC.....	9
4.5 Modems	10
4.6 Human Interface Devices	10
4.7 CDROM / DVD Drives.....	11
4.8 Tape Drives	11
4.9 Removable Drives	12
4.10 KVM.....	12
4.11 Video Adapters	12
5. Hard Disk Drives.....	13

1. Introduction

This document is intended to provide users of the Intel® server board SE7221BK1-E 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 SE7221BK1-E 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 SE7221BK1-E 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:

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

2. Intel® Server Board SE7221BK1-E 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 SE7221BK1-E 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	SC5200 HSC Firmware Revision	Notes
1	SE7221BK1	C67508-402 C67508-404 C67508-406 C67508-407 C67508-408 C67508-450 C67508-451 C67508-550 C67508-650	P08	2.40	2.00	
2	SE7221BKLX	C78048-402 C78048-404 C78048-406 C78048-407 C78048-408 C78048-450 C78048-451 C78048-550 C78048-650	P08	2.40	2.00	

3. Supported Operating Systems

The following table provides a list of supported operating systems for the Intel® server board SE7221BK1-E. Each of the listed operating systems was tested for compatibility with Intel® server board SE7221BK1-E 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 SE7221BK1-E. 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
Windows 2003 Enterprise Edition	Compatibility & Stress	
Windows Server 2003 EE for EM64T	Compatibility & Stress	
Windows 2003 Small Business Server	Basic Installation only	
Windows 2000 Advanced Server, SP4	Basic Installation only	
Windows XP Professional	Compatibility & Stress	Will not be certified
Red Hat Enterprise Linux 3.0, update 3	Compatibility & Stress	
Red Hat Enterprise Linux 3.0, update 3, EM64T	Compatibility & Stress	
Red Hat Advanced Server 2.1	Basic Installation only	
SuSE Enterprise Linux 9	Compatibility & Stress	
SuSE Enterprise Linux 9, EM64T	Compatibility & Stress	

3.1 Operating System Certifications

Listed below are the operating systems that Intel will certify with the Intel® server board SE7221BK1-E. 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 Enterprise Edition	Certified	http://www.microsoft.com/windows/catalog/server/default.aspx?subID=22&xslt=detail&pgn=ADAA87DA-9EF3-EDA7-8AB0-C4592418D839
Microsoft Windows 2000 Advanced Server	Certified	http://www.microsoft.com/windows/catalog/server/default.aspx?subID=22&xslt=detail&pgn=ADAA87DA-9EF3-EDA7-8AB0-C4592418D839
RedHat Enterprise Linux 3.0	In process	
RedHat Enterprise Linux 3.0, EM64T	In process	
SuSE Linux Enterprise 9	In process	
SCO Unixware 7.1.4	Certified	http://wdb1.sco.com/chwp/owa/hch_search_wizard.action
SCO OpenServer 5.0.7	Certified	http://wdb1.sco.com/chwp/owa/hch_search_wizard.action

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	SuSE Linux Enterprise 9.0
4.1 PCI RAID								
3Ware	8506-8(PCI-Med)	8506-8	PCI 64/66	SATA RAID, 8 channel	1,2	1,2	1,2	1,2
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	ASR-2100S	ASR-2100S	PCI-32/33	SCSI RAID, 1 channel	1,2	1,2	1,2	1,2
Adaptec	ASR-2200S	ASR-2200S	PCI-64/66	SCSI RAID, 1 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	GDT8514RZ	GDT8514RZ	PCI-64/66	SCSI RAID, 1+1 channel	1,2	1,2	1,2	1,2
ICP vortex	GDT8524RZ	GDT8524RZ	PCI-64/66	SCSI RAID, 2 channel	1,2	1,2	1,2	1,2
Intel	SRCS14L	SRCS14L	PCI-64/66	SATA RAID, 4 channel	1,2	1,2	1,2	1,2
Intel	SRCS16(PCI-Med)	SRCS16	PCI 64/66	SATA RAID, 6 channel	1,2	1,2	1,2	1,2
Intel	SRCU42E	SRCU42E	PCI Express	SCSI RAID, 2 channel	1,2	1,2	1,2	1,2
Intel	SRCU42L	SRCU42L	PCI-64/66	SCSI RAID, 1 channel	1,2	1,2	1,2	1,2
Intel	SRCU42X	SRCU42X	PCI-X133	SCSI RAID, 2 channel	1,2	1,2	1,2	1,2
LSI Logic	MegaRAID SATA 150-6	MegaRAID SATA 150-6	PCI-64/66	SATA RAID, 6 channel	1,2	1,2	1,2	1,2
LSI Logic	MegaRAID 320-1 (520-1)	MegaRAID SCSI 320-1	PCI-64/66	SCSI RAID, 1 channel	1,2	1,2	1,2	1,2
LSI Logic	MegaRAID SCSI 320-2x	MegaRAID SCSI 320-2x	PCI-X133	SCSI RAID, 2 channel	1,2	1,2	1,2	1,2
LSI Logic	MegaRAID SCSI SCSI 320-2E	MegaRAID SCSI SCSI 320-2E	PCI Express	SCSI RAID, 2 channel	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	SuSE Linux Enterprise 9.0
4.2 PCI SCSI								
Adaptec	ASC-29160LP	ASC-29160LP	PCI-64/66	U160, 1 channel	1,2	1,2	1,2	1,2
Adaptec	ASC-29320ALP	ASC-29320ALP	PCI-X133	U320, 2 channel	1,2	1,2	ND	ND
Adaptec	ASC-39320A	ASC-39320A	PCI-X133	U320, 2 channel	1,2	1,2	1,2	1,2
LSI Logic	LSI20160	LSI20160	PCI-32/33	U160, 1 channel	1,2	1,2	1,2	1,2
LSI Logic	LSI20160L	LSI20160L	PCI-32/33	U160, 1 channel	SA	SA	SA	SA
LSI Logic	LSI22320E-R	LSI22320E-R	PCI Express	x4 U320, 2 channel	1,2	1,2	1,2	1,2
LSI Logic	LSI22320-R	LSI22320-R	PCI-X133	U320, 2 channel	SA	SA	SA	SA
4.3 PCI Fiber Channel								
Emulex	LP10000ExDC	LP10000ExDC-M2	PCI Express	2 channel 2Gb	1,2	1,2	[1,2]	ND
Emulex	LP9002L	LP9002L	PCI-64/66	1 channel 1Gb	SA	SA	[1,2]	[1,2]
Emulex	LP9802DC	LP9802DC	PCI-X133	2 channel 2Gb	1,2	1,2	[1,2]	[1,2]
4.4 PCI NIC								
3COM	Etherlink 10/100 PCI	3C980C-TXM	PCI 32/33		1,2	1,2	1,2	1,2
3COM	Etherlink 10/100 PCI	3C996B-T	PCI 32/33		SA	SA	SA	SA
Intel	PRO/100+ S Server Adapter(PCI-short)	PILA8470D3	PCI 32/33		1,2	1,2	1,2	1,2
Intel	PRO/100+ S Server Adapter(PCI-short)	PILA8470C3	PCI 32/33		SA	SA	SA	SA
Intel	PRO/1000MT Gigabit Server Adapter(PCI-LP/RP)	PWLA8490MT	PCIX 133		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	SuSE Linux Enterprise 9.0
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	1,2	1,2	1,2	1,2
Intel	PRO/1000MT Dual Port Gigabit Adapter	PWLA8492MF	PCIX 133	Dual port, Fiber, No bridge	SA	SA	SA	SA
4.5 Modems								
3COM	USR5610B 56K V.92 Performance Pro (PCI-short)	USR5610B	PCI 32/33		1,2	1,2	1,2	1,2
4.6 Human Interface Devices								
Keytronic	PROPilot	PROPilot	PS/2	Keyboard	1,2	1,2	1,2	1,2
Logitech	Optical Mouse	930582-0121	USB	Mouse	1,2	1,2	1,2	1,2
Logitech	Optical Mouse	930582-0403	USB	Mouse	SA	SA	SA	SA
Logitech	Internet Navigator	967233-0121	USB	Keyboard	1,2	1,2	1,2	1,2
Logitech	Internet Navigator	967233-0403	USB	Keyboard	SA	SA	SA	SA

Manufacturer	Model Name	Model Number	Interface	Comments	Microsoft Windows* 2003 EE	Microsoft Windows 2000 AS	Red Hat Enterprise Linux 3.0	SuSE Linux Enterprise 9.0
Microsoft	Intellimouse Optical		USB	Mouse	1,2	1,2	1,2	1,2
Rainbow	Sentinal Duo Hardware Key	Sentinal Duo	USB	USB Security Key	1,2	1,2	ND	ND
4.7 CDROM / DVD Drives								
Mitsumi	SR244W1	SR244W1	ATA 33	24x slimline	1,2	1,2	1,2	1,2
Panasonic	CW-8123B	CW-8123B	ATA	slimline, CDRW, 24x CD, 8X DVDROM	1,2	1,2	1,2	1,2
Panasonic	UJDA 750WS4-A	UJDA 750WS4-A	ATA 33	Slimline DVD/CD-ROM RW combo	1,2	1,2	1,2	1,2
Pioneer	DVR-S606	DVR-S606	USB2.0		1,2	1,2	1,2	1,2
Teac	CDW540E/Kit/USB2	CDW540E/Kit/USB2	USB2.0	External CD Writer (40/12/48x). USB 2.0/1.1	1,2	1,2	1,2	1,2
Toshiba	SD-R6112	SD-R6112	ATAPI Slim-line (ATA packet interface)	slim-drive CD-RW / DVD-ROM combo	1,2	1,2	1,2	1,2
Toshiba	SD-R2512	SD-R2512	ATA33	Slimline DVD	1,2	1,2	1,2	1,2
4.8 Tape Drives								
Sony	SDX-250V	AIT-1 Desktop	SCSI	20GB native, 6MB/s	1,2	[1,2]	1,2	1,2
Sony	SDX-450V	AIT-2 Desktop	SCSI	40GB native, 12MB/s	1,2	[1,2]	1,2	1,2
Sony	SDX-550V	AIT-2 Desktop	SCSI	80GB native, 12MB/s	1,2	[1,2]	1,2	1,2
Sony	SDX-700V	AIT-3 Desktop	SCSI	100GB native, 12MB/s	1,2	[1,2]	1,2	1,2
Sony	SDX-900V	AIT-3 Desktop	SCSI	200GB native, 24MB/s	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	SuSE Linux Enterprise 9.0
4.9 Removable Drives								
SanDisk	SDCZ2-256	Mini Cruzer Data Storage	USB	USB 2.0	1,2	1,2	1,2	1,2
SONY	PCGA-UFD5	VAIO External USB floppy	USB	USB	1,2	1,2	1,2	1,2
TEAC	FD-235HF	FD-235HF	FLOPPY	1.44MB, 3.5" Floppy	1,2	1,2	1,2	1,2
TEAC	FDO5PUB	FDO5PUB	USB	External	1,2	1,2	1,2	1,2
4.10 KVM								
Avocent	1160ES	1160ES	PS/2	16 port	1,2	1,2	1,2	1,2
Belkin	Omniview PRO2	F1DA108T	PS/2	8 port	1,2	1,2	1,2	1,2
4.11 Video Adapters								
Matrox	Millennium G450 (PCI-Med)	G45FMDVP32DB	PCI32/33	Dual output	1,2	1,2	1,2	1,2

5. Hard Disk Drives

The hard drives listed in the following table have been tested with the Intel® server board SE7221BK1-E 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	SuSE Linux Enterprise* 9.0

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	
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 15K	8C073J0	U320 SCSI SCA	15,000	73GB	1,2,3,4	
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	
Seagate	Cheetah 10.6	ST3146807LC	U320 SCSI SCA	10,000	146GB	1,2,3,4	
Seagate	Cheetah 10.6	ST336607LC	U320 SCSI SCA	10,000	36GB	SD,SD,SD,SD	
Seagate	Cheetah 10.6	ST373307LC	U320 SCSI SCA	10,000	73GB	SD,SD,SD,SD	
Seagate	Cheetah 10K.7	ST3300007LC	U320 SCSI SCA	10,000	293.6GB	1,2,3,4	
Seagate	Cheetah 10K.7	ST3146707LC	U320 SCSI SCA	10,000	146.7GB	SD,SD,SD,SD	
Seagate	Cheetah 10K.7	ST373207LC	U320 SCSI SCA	10,000	73.4GB	SD,SD,SD,SD	

Manufacturer	Product Family	Model Number	Interface	RPM	Drive size (GB)	Tested Operating Systems	Notes
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	
Seagate	Cheetah 15K.4	ST3146854LC	U320 SCSI SCA	15,000	146.7GB	1,2,3,4	
Seagate	Cheetah 15K.4	ST373454LC	U320 SCSI SCA	15,000	73.4GB	SD,SD,SD,SD	
Seagate	Cheetah 15K.4	ST336754LC	U320 SCSI SCA	15,000	36.7GB	SD,SD,SD,SD	
Hitachi	Ultrastar 15K73	HUS157373EL 3800	U320 SCSI SCA	15,000	73GB	1,2,3,4	
Hitachi	Ultrastar 15K73	HUS157373EL 3600	U320 SCSI 68 pin	15,000	73GB	SD,SD,SD,SD	
Hitachi	Ultrastar 15K73	HUS157336EL 3800	U320 SCSI SCA	15,000	36GB	SD,SD,SD,SD	
Hitachi	Ultrastar 15K73	HUS157336EL 3600	U320 SCSI 68 pin	15,000	36GB	SD,SD,SD,SD	
Hitachi	Ultrastar 15K147	HUS151436VL 3800	U320 SCSI 68 pin	15,000	36GB	1,2,3,4	
Hitachi	Ultrastar 15K147	HUS151473VL 3800	U320 SCSI 68 pin	15,000	73GB	SD,SD,SD,SD	
Hitachi	Ultrastar 15K147	HUS151414VL 3800	U320 SCSI 68 pin	15,000	146GB	SD,SD,SD,SD	
Hitachi	Ultrastar 10K300	HUS103073FL 3800	U320 SCSI 68 pin	10,000	73GB	1,2,3,4	
Hitachi	Ultrastar 10K300	HUS103014FL 3800	U320 SCSI 68 pin	10,000	146GB	SD,SD,SD,SD	
Hitachi	Ultrastar	HUS103030FL 3800	U320 SCSI 68	10,000	300GB	SD,SD,SD,SD	

Manufacturer	Product Family	Model Number	Interface	RPM	Drive size (GB)	Tested Operating Systems	Notes
	10K300		pin				
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	
Parallel ATA (PATA) Hard Drives							
Hitachi	Deskstar 180GXP	IC35L180AVV 207	ATA 100	7,200	180GB	1,2,3,4	
Hitachi	Deskstar 180GXP	IC35L120AVV 207	ATA 100	7,200	120GB	SD,SD,SD,SD	
Hitachi	Deskstar 180GXP	IC35L090AVV 207	ATA 100	7,200	90GB	SD,SD,SD,SD	
Hitachi	Deskstar 180GXP	IC35L060AVV 207	ATA 100	7,200	60GB	SD,SD,SD,SD	
Hitachi	Deskstar 180GXP	IC35L030AVV 207	ATA 100	7,200	30GB	SD,SD,SD,SD	
Hitachi	Deskstar 7K400	HDS724040KL AT80	ATA 133	7,200	400GB	1,2,3,4	
Hitachi	Deskstar 7K250	HDS722525VL AT80	ATA 100	7,200	250GB	SD,SD,SD,SD	Same as HDS722525VLS A80
Hitachi	Deskstar 7K250	HDS722516VL AT80	ATA 100	7,200	160GB	SD,SD,SD,SD	Same as HDS722516VLS A80
Hitachi	Deskstar 7K250	HDS722512VL AT80	ATA 100	7,200	120GB	SD,SD,SD,SD	Same as HDS722512VLS A80
Maxtor	DiamondMax Plus 9	6Y200P0	ATA 133	7,200	200GB	1,2,3,4	
Maxtor	DiamondMax Plus 9	6Y160P0	ATA 133	7,200	160GB	SD,SD,SD,SD	

Manufacturer	Product Family	Model Number	Interface	RPM	Drive size (GB)	Tested Operating Systems	Notes
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	
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	
Serial ATA (SATA) Hard Drives							
Maxtor	DiamondMax Plus 9	6Y120M0	SATA-150	7,200	120GB	1,2,3,4	
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	
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	

Hard Disk Drives

Intel® Server Board SE7221BK1-E

Manufacturer	Product Family	Model Number	Interface	RPM	Drive size (GB)	Tested Operating Systems	Notes
Seagate	Barracuda 7	ST3200822AS	SATA-150	7,200	200GB	SD,SD,SD,SD	
Seagate	Barracuda 7	ST380013AS	SATA-150	7,200	80GB	SD,SD,SD,SD	
Hitachi	Deskstar 7K400	HDS724040KL SA80	ATA 150	7,200	400GB	SD,SD,SD,SD	Same as HDS724040KLA T80
Hitachi	Deskstar 7K250	HDS722525VL SA80	SATA-300	7,200	250GB	1,2,3,4	
Hitachi	Deskstar 7K250	HDS722516VL SA80	SATA-300	7,200	160GB	SD,SD,SD,SD	
Hitachi	Deskstar 7K250	HDS722512VL SA80	SATA-300	7,200	120GB	SD,SD,SD,SD	
Hitachi	Deskstar 7K250	HDS722580VL SA80	SATA-300	7,200	80GB	SD,SD,SD,SD	
Hitachi	Deskstar T7K250	HDT722525DL A380	SATA-300	7200	250GB	1,2,3,4	
Hitachi	Deskstar 7K400	HDS724040KL SA80	SATA-150	7200	400GB	SD,SD,SD,SD	
Hitachi	Deskstar 7K500	HDS725050KL A360	SATA-300	7200	500GB	SD,SD,SD,SD	
Hitachi	Deskstar 7K80	HDS728040PL A320	SATA-300	7200	80GB	1,2,3,4	
Western Digital	WD Raptor	WD360GD	SATA-150	10,000	36GB	1,2,3,4	
Western Digital	WD Raptor	WD740GD	SATA-150	10,000	74GB	SD,SD,SD,SD	