



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 |

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 2005. 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 Contents

| | |
|---|-----------|
| 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 SE7320VP2 Base System Configurations | 4 |
| 3. Supported Operating Systems..... | 5 |
| 3.1 Operating System Certifications | 6 |
| 4. Adapters and Peripherals..... | 8 |
| 4.1 PCI RAID | 9 |
| 4.2 PCI SCSI | 10 |
| 4.3 PCI Fiber Channel | 10 |
| 4.4 Infiniband | 11 |
| 4.5 PCI NIC..... | 11 |
| 4.6 Modems | 12 |
| 4.7 Human Interface Devices | 12 |
| 4.8 CDROM Drives | 13 |
| 4.9 DVD Drives | 13 |
| 4.10 Tape Drives | 14 |
| 4.11 Removable Drives | 14 |
| 4.12 KVM..... | 14 |
| 4.13 Graphic Adapter..... | 14 |
| 5. Hard Disk Drives..... | 17 |
| 6. Installation Guidelines & Test Notes | 23 |
| 6.1 SuSE 9.1 Professional Kernel version 2.6.4-52-smp data integrity issue..... | 23 |
| 6.2 Emulex® LP9802DC PCI-X FC host adapter issue under Netware6.5. | 23 |

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 | |
|------|---|----------|-----------|--|------|------|------|--------|---|--|

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 | | |
|-----|----------------------|-------------|-----------|-------------|------|------|------|------|--|--|

| 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

Intel® Server Board SE7320VP2

| 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

Intel® Server Board SE7320VP2

| Manufacturer | Product Family | Model Number | Interface | RPM | Drive size (GB) | Tested Operating Systems | Notes |
|------------------------|------------------|------------------|-----------|--------|-----------------|--------------------------|-----------------------------------|
| | | 20 | | | | | |
| Hitachi | Deskstar 7K80 | HDS728040PLAT 20 | 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 |