



Intel[®] Server Board S5400SF

Tested Hardware and Operating System List

Rev 1.9

November 2008

Enterprise Platforms and Services Division

Revision History

Date	Revision Number	Modifications
November 2, 2007	1.0	Initial release.
November 27, 2007	1.1	Added one adapter.
December 5, 2007	1.2	Added additional HW RAID adapters.
January 20, 2008	1.3	Added additional validated peripherals.
March 23, 2008	1.4	Added Adaptec SAS HW RAID adapters.
April 30, 2008	1.5	Update with Q1'08 regression test
May 26, 2008	1.6	Update with Windows® Server 2008 certification
September 16, 2008	1.7	Update with Q2 regression test
October 2, 2008	1.8	Update with Q3 regression test
November 12, 2008	1.9	Update with Intel RAID products

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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 S5400SF Base System Configurations	4
3. Supported Operating Systems	5
3.1 Operating System Certifications	7
4. Adapters and Peripherals	8
4.1 PCI NIC	9
4.2 PCI HW RAID SAS	9
4.3 PCI Fiber Channel	12
4.4 Graphic	12
4.5 Infiniband*	13
4.6 CD ROM Drives	13
4.7 DVD Drives	14
4.8 Input	14
4.9 Removable Media	14
5. Hard Disk Drives	16

1 Introduction

This document is intended to provide users of the Intel® Server Board S5400SF, 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 S5400SF 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 S5400SF 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.

- ⇒ 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 S5400SF testing was performed using the Intel® Server System SR1560SF.

2 Intel® Server Board S5400SF 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 S5400SF 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	HSBP Firmware Revision	Notes
1	S5400SF	D87491-401	R0018	SFBMC06	FSF_06	
2	S5400SF	D87491-401	R0019	SFBMC07	FSF_07	
3	S5400SF	D87491-402	R0018	SFBMC06	FSF_06	
4	S5400SF	D87491-402	R0019	SFBMC07	FSF_07	
5	S5400SF	D87491-401	R0023	SFBMC07	2.07/FSF_07	
6	S5400SF	D87491-402	R0026	SFBMC07	2.07/FSF_08	
7	S5400SF	D87491-402	R0026	SFBMC08	2.07/FSF_11	
8	S5400SF	D87491-405	R0028	SFBMC09	2.09/FSF_11	

3 Supported Operating Systems

The following table provides a list of supported operating systems for the Intel® Server Board S5400SF. Each of the listed operating systems was tested for compatibility with Intel® Server Board S5400SF 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® System Management software or LANDesk® Client Manager software may be different than the operating systems supported by the Intel® Server Board S5400SF. Please reference the Readme and User Guide documents that are included as part of each Intel® System Management and LANDesk® Client Manager distribution for operating systems that are supported by that release.

Operating System	Base System Configuration Tested & Type of Testing	Notes
Microsoft Windows Server 2003* R2 SP2 (32-bit)	Configuration 1 – OS installation & Stress Configuration 2 - Stress Configuration 4 – OS installation & Compatibility Configuration 5 – Compatibility	Intel's testing was completed with Microsoft Windows Server 2003*. The Intel® Server Board S5400SF supports the operating system portion of Microsoft Windows Server 2003* SP2 (32-bit) only. The application portion is not tested or supported.
Microsoft Windows Server 2003* R2 SP2 (64-bit)	Configuration 1 – OS installation & Stress Configuration 2 - Stress Configuration 4 – OS installation & Stress Configuration 5 – Compatibility	Intel's testing was completed with Microsoft Windows Server 2003*. The Intel® Server Board S5400SF supports the operating system portion of Microsoft Windows Server 2003 Server* SP2 (64-bit) only. The application portion is not tested or supported.
Microsoft Windows Server 2008* SP1 (32-bit)	Configuration 6 – OS installation & Stress Configuration 5 – Compatibility	Intel's testing was completed with Microsoft Windows Server 2008*. The Intel® Server Board S5400SF supports the operating system portion of Microsoft Windows Server 2008 (32-bit) only. The application portion is not tested or supported.
Microsoft Windows Server 2008* SP1 (64-bit)	Configuration 6 – OS installation & Stress Configuration 5 –	Intel's testing was completed with Microsoft Windows Server 2008*. The Intel® Server Board S5400SF supports the operating system portion of Microsoft Windows Server

Operating System	Base System Configuration Tested & Type of Testing	Notes
	Compatibility	2008 (64-bit) only. The application portion is not tested or supported.
Red Hat* Enterprise Linux AS 5.1 (32-bit)	Configuration 1 – OS installation & Stress Configuration 2 – OS installation Configuration 3 –Stress Configuration 4 – Compatibility	Intel's testing was completed with Red Hat* Enterprise Linux AS 5.2 (32-bit). The Intel® Server Board S5400SF supports the operating system portion of Red Hat* Enterprise Linux AS 5.2 (32-bit) only. The application portion is not tested or supported.
Red Hat* Enterprise Linux AS 5.1 (64-bit)	Configuration 1 – OS installation & Stress Configuration 2 – OS installation	Intel's testing was completed with Red Hat* Enterprise Linux AS 5.2 (64-bit). The Intel® Server Board S5400SF supports the operating system portion of Red Hat* Enterprise Linux AS 5.2 (64-bit) only. The application portion is not tested or supported.
SuSE* Linux Enterprise Sever 10 SP1 (32-bit)	Configuration 1 – OS installation & Stress Configuration 2 – OS installation Configuration 3–Stress Configuration 4 – Compatibility	Intel's testing was completed with SuSE* Linux Enterprise Sever 10 SP2 (32-bit). The Intel® Server Board S5400SF supports the operating system portion of SuSE* Linux Enterprise Sever 10 SP2 (32-bit) only. The application portion is not tested or supported.
SuSE* Linux Enterprise Sever 10 SP1 (64-bit)	Configuration 1 – OS installation Configuration 2 – OS installation & Stress Configuration 4 – Stress	Intel's testing was completed with SuSE* Linux Enterprise Sever 10 SP2 (64-bit). The Intel® Server Board S5400SF supports the operating system portion of SuSE* Linux Enterprise Sever 10 SP2 (64-bit) only. The application portion is not tested or supported.

3.1 Operating System Certifications

Listed below are the operating systems that Intel will certify on the Intel® Server Board S5400SF. 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 (32 bits & 64 bits)	Intel Server Board S5400SF (ID: 1274498, 1276454)	OEM must request certification by Microsoft* for their specific product. http://www.microsoft.com/whdc/hcl/default.aspx http://developer.intel.com/design/servers/whql.htm
Microsoft* Windows Server 2008 (32 bits & 64 bits)	Intel Server Board S5400SF(SATA & SATA Fixed) (ID: 1291685)	OEM must request certification by Microsoft* for their specific product. http://www.microsoft.com/whdc/hcl/default.aspx 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 Server 2008* SP1 (32-bit)	Microsoft Windows Server 2008* SP1 (64-bit)	Microsoft Windows Server 2003* SP2 (32-bit)	Microsoft Windows Server 2003* SP2 (64-bit)	Red Hat* Enterprise Linux ES 5.2 (32-bit)	Red Hat* Enterprise Linux ES 5.2 (64-bit)	SUSE* Linux Enterprise Server 10 SP2 (32-bit)	SUSE* Linux Enterprise Server 10 SP2 (64-bit)
4.1 PCI NIC												
Sysconnect	SK-9E22	SK-9E22	PCIe x4		5,8	5	4,6,8	4,6,7	[4],6,7,8	[4],6,7	[4],6,7	[4],6,7,8
Intel	Intel® PRO/1000 PT Server Adapter	EXPI9400PT	PCIe x1		5	5,8	4,6,7	4,6,8	4,6,7,8	4,6,7	4,6	4,6,7
Intel	Intel® PRO/1000 PF Server Adapter	EXPI9400PF	PCIe x1		SA	SA	SA	SA	SA	SA	SA	SA
Intel	Intel® PRO/1000 PT Server Adapter	EXPI9300PT	PCIe x1		SA	SA	SA	SA	SA	SA	SA	SA
Intel	Intel® PRO/1000 PT Dual Port Server Adapter	EXPI9402PT	PCIe x4		5,8	5	4,6,7,8	4,6	4,6,7	4,6,7	4,6,7	4,6,8
Intel	Intel® PRO/1000 PF Dual Port Server Adapter	EXPI9402PF	PCIe x4		SA	SA	SA	SA	SA	SA	SA	SA
Intel	Intel® PRO/1000 PT Quad Port Server Adapter	EXPI9404PT	PCIe x4		5	5,8	6	6,7,8	6,7	6,7,8	6,8	6,7
Intel	Intel® PRO/1000 PF Quad Port Server Adapter	EXPI9404PF	PCIe x4		SA	SA	SA	SA	SA	SA	SA	SA
Intel	AXXGBIOMOD	AXXGBIOMOD	PCIe x4		SA	SA	SA	SA	SA	SA	SA	SA
4.2 PCI HW RAID SAS												
Intel	SRCSAS144E	SRCSAS144E	PCIe x4	Rev.B1	5,8	5	4,6,7,8	4,6	4,6,7,8	4,6,7	4,6	4,6,7,8

Manufacturer	Model Name	Model Number	Interface	Comments	Microsoft Windows Server 2008* SP1 (32-bit)	Microsoft Windows Server 2008* SP1 (64-bit)	Microsoft Windows Server 2003* SP2 (32-bit)	Microsoft Windows Server 2003* SP2 (64-bit)	Red Hat* Enterprise Linux ES 5.2 (32-bit)	Red Hat* Enterprise Linux ES 5.2 (64-bit)	SUSE* Linux Enterprise Server 10 SP2 (32-bit)	SUSE* Linux Enterprise Server 10 SP2 (64-bit)
Intel	SRCSAS18E	SRCSAS18E	PCIe x8	Rev.B1	SA	SA	SA	SA	SA	SA	SA	SA
Intel	SRCSASJV	SRCSASJV	PCIe x8	Rev.C2	NT	NT	4	4	4	4	4	4
Intel	SRCSASRB	SRCSASRB	PCIe x4	Rev.C2	NT	NT	SA	SA	SA	SA	SA	SA
Intel	SRCSATAWB	SRCSATAWB	PCIe x4	Rev.C2	NT	NT	SA	SA	SA	SA	SA	SA
Intel	SRCSASBB8I	SRCSASBB8I	PCIe x8	8-port SAS internal	[5]	[5]	SA	SA	SA	SA	SA	SA
Intel	SRCSASLS4I	SRCSASLS4I	PCIe x8	4-port SAS internal	NT	NT	SA	SA	SA	SA	SA	SA
Intel	SASWT4I	SASWT4I	PCIe x4	4-port SAS internal	NT	NT	6	6	6	6	6	5
Intel	SASUC8I	SASUC8I	PCIe x8	8-port SAS internal	NT	NT	6	6	6	6	6	5
Intel	SRCSASPH16I	SRCSASPH16I	PCIe x8	16-port SAS internal	NT	NT	6	6	6	6	6	5
Intel	AXXSASIOMOD	AXXSASIOMOD	PCIe x4		[5]	[5]	NT	NT	NT	NT	NT	NT
AMCC /3Ware	9650SE	9650SE-12ML	PCIe x4		NT	NT	4	4	4	4	4	4
AMCC /3Ware	9650SE	9650SE-16ML	PCIe x8		NT	NT	SA	SA	SA	SA	SA	SA
AMCC /3Ware	9650SE	9650SE-24M8	PCIe x8		NT	NT	SA	SA	SA	SA	SA	SA
AMCC /3Ware	9650SE	9650SE-2LP	PCIe x1		NT	NT	SA	SA	SA	SA	SA	SA

Manufacturer	Model Name	Model Number	Interface	Comments	Microsoft Windows Server 2008* SP1 (32-bit)	Microsoft Windows Server 2008* SP1 (64-bit)	Microsoft Windows Server 2003* SP2 (32-bit)	Microsoft Windows Server 2003* SP2 (64-bit)	Red Hat* Enterprise Linux ES 5.2 (32-bit)	Red Hat* Enterprise Linux ES 5.2 (64-bit)	SUSE* Linux Enterprise Server 10 SP2 (32-bit)	SUSE* Linux Enterprise Server 10 SP2 (64-bit)
AMCC /3Ware	9650SE	9650SE-4LPML	PCIe x4		NT	NT	SA	SA	SA	SA	SA	SA
AMCC /3Ware	9650SE	9650SE-8LPML	PCIe x4		NT	NT	SA	SA	SA	SA	SA	SA
AMCC /3Ware	9690SE	9690SA-8I	PCIe x8		NT	NT	4	4	4	4	4	4
AMCC /3Ware	9690SE	9690SE-8E	PCIe x8		NT	NT	SA	SA	SA	SA	SA	SA
AMCC /3Ware	9690SE	9690SE-414E	PCIe x8		NT	NT	SA	SA	SA	SA	SA	SA
Adaptec	ASR-31205	Adaptec RAID 31205	PCIe x8		NT	NT	4	4	4	4	4	4
Adaptec	ASR-31605	Adaptec RAID 31605	PCIe x8		NT	NT	SA	SA	SA	SA	SA	SA
Adaptec	ASR-3405	Adaptec RAID 3405	PCIe x4		NT	NT	4	4	4	4	4	4
Adaptec	ASR-3805	Adaptec RAID 3805	PCIe x4		NT	NT	SA	SA	SA	SA	SA	SA
Adaptec	ASR-3085	Adaptec RAID 3085	PCIe x8		NT	NT	SA	SA	SA	SA	SA	SA
Adaptec	Adaptec RAID 5805	Adaptec RAID 5805	PCIe x8		NT	NT	5	5	NT	NT	NT	NT
Adaptec	Adaptec RAID 5445	Adaptec RAID 5445	PCIe x8		NT	NT	SA	SA	NT	NT	NT	NT
Adaptec	Adaptec RAID 5405	Adaptec RAID 5405	PCIe x8		NT	NT	SA	SA	NT	NT	NT	NT
Adaptec	Adaptec RAID 5085	Adaptec RAID 5085	PCIe x8		NT	NT	SA	SA	NT	NT	NT	NT

Manufacturer	Model Name	Model Number	Interface	Comments	Microsoft Windows Server 2008* SP1 (32-bit)	Microsoft Windows Server 2008* SP1 (64-bit)	Microsoft Windows Server 2003* SP2 (32-bit)	Microsoft Windows Server 2003* SP2 (64-bit)	Red Hat* Enterprise Linux ES 5.2 (32-bit)	Red Hat* Enterprise Linux ES 5.2 (64-bit)	SUSE* Linux Enterprise Server 10 SP2 (32-bit)	SUSE* Linux Enterprise Server 10 SP2 (64-bit)
Adaptec	Adaptec RAID 52445	Adaptec RAID 52445	PCIe x8		NT	NT	5	5	NT	NT	NT	NT
Adaptec	Adaptec RAID 51245	Adaptec RAID 51245	PCIe x8		NT	NT	SA	SA	NT	NT	NT	NT
Adaptec	Adaptec RAID 51645	Adaptec RAID 51645	PCIe x8		NT	NT	SA	SA	NT	NT	NT	NT
Adaptec	ASC-29320 LPE	ASC-29320 LPE	PCIe x1	1-channel SCSI	NT	NT	4	4	4	4	4	4
4.3 PCI Fiber Channel												
LSI Logic	LSI7204EP-LC	LSI7204EP-LC	PCIe x4		[5]	[5]	4,6,7	4,6	4,6,7	4,6,7	4,6,7	4,6
LSI Logic	LSI7104EP-LC	LSI7104EP-LC	PCIe x4		SA	SA	SA	SA	SA	SA	SA	SA
LSI Logic	LSI7404EP-LC	LSI7404EP-LC	PCIe x4		SA	SA	SA	SA	SA	SA	SA	SA
Emulex	LP10000ExDC	LP10000ExDC-M2	PCIe x4	1 channel	[5]	[5],8	4,6	4,6,7,8	4,6,[7],8	4,6,[7]	4,6	4,6,[7],8
Emulex	LP10000Ex	LP10000Ex-M2	PCIe x4		SA	SA	SA	SA	SA	SA	SA	SA
Emulex	LPe11002	LPe11002	PCIe x4	2 channels	5	5,8	6,7	6,7,8	6,7	6,7,8	6,7,8	6,7
Qlogic	QLE2462	QLE2462	PCIe x4		5	5	4,6,7	4,6	4,6,7,8	4,6,7	4,6,7	4,6
Qlogic	QLE2460	QLE2460	PCIe x4		SA	SA	SA	SA	SA	SA	SA	SA
4.4 Graphic												
ASUS	ATI X1300	EAX1300/TD/256M	PCIe x16		NT	NT	4,6,7	4,6	[4],6,7	[4],6,7	[4],6,7	[4],6,7
ATI	ATI X1300(R515)	X1300	PCIe x16		5	5	4,[6]	4,[6]	[4],[6]	[4],[6]	[4],[6]	[4],[6]
ATI	ATI X1950 XTX	X1950XTX 512M	PCIe x16		5	5	NT	NT	NT	NT	NT	NT
ATI	ATI X1950 Pro	X1950 Pro 256M	PCIe x16		5	5	NT	NT	NT	NT	NT	NT

Manufacturer	Model Name	Model Number	Interface	Comments	Microsoft Windows Server 2008* SP1 (32-bit)	Microsoft Windows Server 2008* SP1 (64-bit)	Microsoft Windows Server 2003* SP2 (32-bit)	Microsoft Windows Server 2003* SP2 (64-bit)	Red Hat* Enterprise Linux ES 5.2 (32-bit)	Red Hat* Enterprise Linux ES 5.2 (64-bit)	SUSE* Linux Enterprise Server 10 SP2 (32-bit)	SUSE* Linux Enterprise Server 10 SP2 (64-bit)
Nvidia	GeForce 7900	GeForce PCX 7900GT	PCIe x16		[8]	NT	[8]	NT	[8]	[8]	[8]	[8]
4.5 Infiniband*												
Mellanox	Infinihost III Ex	MHGA28-XTC	PCIe x8		[5]	[5],8	4,6,7	4,6,8	4,6,7	4,6,7	4,6,8	4,6,7
Mellanox	Infinihost III Ex	MHGA28-1TC	PCIe x8		SA	SA	SA	SA	SA	SA	SA	SA
Mellanox	Infinihost III Ex	MHEA28-XTC	PCIe x8		SA	SA	SA	SA	SA	SA	SA	SA
Mellanox	Infinihost III Ex	MHEA28-1TC	PCIe x8		SA	SA	SA	SA	SA	SA	SA	SA
Mellanox	AXXIBDDRPT	888413	PCIe x8		SA	SA	SA	SA	SA	SA	SA	SA
Voltaire	HCA 4X0	400Ex	PCIe x8		SA	SA	SA	SA	SA	SA	SA	SA
Voltaire	HCA 4X0	400Ex-D	PCIe x8		SA	SA	SA	SA	SA	SA	SA	SA
Intel	Infinihost III Lx	MHGS18-XTC	PCIe x8		8	NT	8	NT	NT	8	NT	NT
Intel	AXXIBIOMOD	AXXIBIOMOD	PCIe x4		SA	NT	SA	NT	NT	SA	NT	NT
Mellanox	Infinihost III Lx	MHES14-XTC	PCIe x4		SA	NT	SA	NT	NT	SA	NT	NT
Mellanox	Infinihost III Lx	MHES18-XTC	PCIe x8		SA	NT	SA	NT	NT	SA	NT	NT
Mellanox	Infinihost III Lx	MHGS18-XTC	PCIe x8		SA	NT	SA	NT	NT	SA	NT	NT
Voltaire	HCA 4X0	410Ex	PCIe x8		SA	NT	SA	NT	NT	SA	NT	NT
Voltaire	HCA 4X0	410Ex-D	PCIe x8		SA	NT	SA	NT	NT	SA	NT	NT
Cisco	SFS-HCA-220-A1	SFS-HCA-220-A1	PCIe x8		SA	NT	SA	NT	NT	SA	NT	NT
4.6 CD ROM Drives												
Samsung	SN-124P	SN-124P	IDE/Slimline		NT	NT	4,[6]	4,[6]	4,[6]	4,[6]	4,[6]	4,[6]
TEAC	CD-224E-NZ3	CD-224E-NZ3	IDE/Slimline		NT	NT	4,6	4,7	4,6,7	4,6,7	4,6	4,7

Manufacturer	Model Name	Model Number	Interface	Comments	Microsoft Windows Server 2008* SP1 (32-bit)	Microsoft Windows Server 2008* SP1 (64-bit)	Microsoft Windows Server 2003* SP2 (32-bit)	Microsoft Windows Server 2003* SP2 (64-bit)	Red Hat* Enterprise Linux ES 5.2 (32-bit)	Red Hat* Enterprise Linux ES 5.2 (64-bit)	SUSE* Linux Enterprise Server 10 SP2 (32-bit)	SUSE* Linux Enterprise Server 10 SP2 (64-bit)
4.7 DVD Drives												
Iomega	Super DVD Writer 16x16 Dual Layer	Super DVD Writer 16x16 Dual Layer	IDE/Slimline		NT	NT	4	4,6	4,6	4,6	4	4,6
HLDS	GWA-4082N	GWA-4082N	IDE/Slimline		NT	NT	4	4,6,7	4,6,7	4,6,7	4,6,7	4
TEAC	DV-224E-C93	DV-224E-C93	IDE/Slimline		5	5	4	4,6,7	4,6,7	4,6,7	4,7	4,6,7
TEAC	DV-224E-C83	DV-224E-C83	IDE/Slimline		5	5	4,6,7	4	4,6,7	4,6,7	4,6,7	4
TEAC	DV-28EN83	DV-28EN83	IDE/Slimline		5	5	4,6,7	4	4,6,7	4,6,7	4,6,7	4
TEAC	DV-28E	DV-28E	IDE/Slimline		NT	NT	4,6,7	4	4,6,7	4,6,7	4,6,7	4
Lite-on	SSC-2485K	SSC-2485K	IDE/Slimline		NT	NT	6,7	6,7	6,7	6,7	6,7	6,7
Toshiba	SD-R2212	SD-R2212	IDE/Slimline		NT	NT	4	4,6,7	4,6,7	4,6,7	4,8	4,6,7
4.8 Input												
Logitech	G5 Laser mouse	G5 Laser mouse	USB2.0		5	5	4	4,6,7	4,6,7	4,6,7	4	4,6,7
4.9 Removable Media												
SanDisk	Cruzer Mini USB Flash	SDCZ2-4096	USB 2.0		5	5	4	4,6,7	4,6,7	4,6,7	4	4,6,7
TEAC	FD-O5PUB	FD-O5PUB	USB		5	5	4,6	4,7	4,6,7,8	4,6,7	4,6,8	4,7
TEAC	FD05PUW268	FD05PUW268	USB		NT	NT	4	4,6,7	4,6,7	4,6,7	4	4,6,7

Manufacturer	Model Name	Model Number	Interface	Comments	Microsoft Windows Server 2008* SP1 (32-bit)	Microsoft Windows Server 2008* SP1 (64-bit)	Microsoft Windows Server 2003* SP2 (32-bit)	Microsoft Windows Server 2003* SP2 (64-bit)	Red Hat* Enterprise Linux ES 5.2 (32-bit)	Red Hat* Enterprise Linux ES 5.2 (64-bit)	SUSE* Linux Enterprise Server 10 SP2 (32-bit)	SUSE* Linux Enterprise Server 10 SP2 (64-bit)
TEAC	FD005U396	FD005U396	USB		NT	NT	4,6	4	4,6	4,6	4,6	4
PNY	Attache' 2GB	P-FD02GU20	USB 2.0		NT	NT	4	4,6,7	4,6,7	4,6,7	4,6,7	4,6,7
Memorex	1GB Travel Drive	32509363	USB 2.0		5	5	4,6,7	4	4,6,7	4,6,7	4	4,6,7
IOMega	Super DVD writer	IOMega DVD RW	USB 2.0		5	5	5	5,7	5,7	5,7	5	5,7
Sony	VAIO USB floppy drive	VPG-UFD1	USB		5	5	[6]	[6]	[6]	[6]	[6]	[6]

* Note: Refer to <http://support.intel.com/support/motherboards/server/sb/CS-025360.htm> for more information.

5 Hard Disk Drives

The hard drives previously in this section have now been listed separately in the *Server Hard Drive Validation Test Report*, which includes the qualified hard drives for the Intel® Server Board S5400SF. It is located on Intel's secure website IBL and at the web link below:
<http://www.intel.com/support/motherboards/server/sb/CS-025416.htm>