Intel® RAID Controller SRCU41L

Tested Hardware and Operating System List

Revision History

Date	Revision Number	Modifications
06/30/05	1.0	Initial Release
03/25/06	1.1	Update with latest Firmware and Test information
09/20/06	2.0	Update with latest Firmware and Test information
12/20/06	2.1	Update tested hard drive list
06/21/07	3.0	Update with latest Firmware and Test information
12/20/07	4.0	Update with latest Firmware and Test information

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1.   Introduction

This document is intended to provide users of the Intel® RAID Controller SRCU41L with a guide to the operating systems, server boards, chassis, disk drives, and other peripherals tested by Intel for use with this RAID controller.

This document will be updated as additional testing is performed, or until the Intel® RAID Controller SRCU41L is no longer in production. Each new release of the document will include the information from previous releases. The latest version of this document is posted on the Internet.

Intel will only provide support for this RAID controller when it is installed in a system configured with the specified server boards, and when the server board is configured with the tested RAID firmware, system BIOS / firmware, and operating system versions.

Thorough testing has been performed on the RAID controller with Intel® server boards, Intel® drive enclosures, and the third party devices listed in this document. However, it is not practical to test the RAID controller in every possible combination of server board, drive enclosure, hard drive, and peripheral device. Sample combinations have been tested to gain confidence in their compatibility, and the devices listed were tested in one or more configuration.

1.1   Test Overview

Testing performed on the Intel® RAID Controller SRCU41L is classified under two categories:

- Compatibility Testing
- Stress Testing

1.1.1   Basic Compatibility Testing

Compatibility testing is performed with each supported operating system. Basic compatibility testing validates that the RAID controller can be used to install the operating system and that the base hardware feature set is functional. A small set of peripherals are used for installation purposes only. No additional add in cards are tested. Testing may include network connectivity and running proprietary and industry standard test suites.

Note: The latest version of an operating system signifies the latest supported version at the time of testing. New releases of this document may include a newly supported release of an operating system. Previous releases of a supported operating system may not be tested beyond the basic compatibility 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 tested operating system drivers for each of the integrated controllers on the server board, as long as the controller vendor has a driver. Vendors are not 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 provide support to customers who experiences issues with the integrated controllers due to the installation or functionality of an operating if a driver is available.

- Intel does not provide support for issues related to the use of add-in adapters or peripheral installed in the server system with an operating system that received only basic installation testing.

- Support is defined as helping a customer to root cause an issue and determining an acceptable resolution to the operating system problem. The resolution may include, but is not limited to, onboard controller driver updates, engaging the vendor, BIOS changes, firmware changes, or determining an acceptable workaround for the issue with the customer.

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 testing. The Adapter / Peripheral Compatibility and Stress testing process consists of three areas:

- **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. CV testing does not include heavy stressing of the systems or the cards.

- **Stress Testing**: This test sequence uses configurations with add-in adapters installed in all available slots (depending on chassis used), and runs for a minimum of 72-hours without injecting errors. Each configuration passes an installation test, a network/disk stress test, and tape backup test. Any fatal errors require a restart of the test.

1.1.2.1   Support Commitment for Adapter / Peripheral Compatibility and Stress Testing

Intel will provide the following level of customer support for operating systems that receive Adapter / Peripheral Compatibility and Stress testing:

- Intel will provide support to customers who experience issues with tested operating systems if they involve the installation or functionality of the server board with or without the adapters and peripherals listed in this document as having been tested under the operating system.
- Support is defined helping a customer to root cause an issue and determining an acceptable resolution to the problem. The resolution may include, but is not limited to, on-board controller driver updates, engaging the vendor, BIOS changes, firmware changes, or determining a workaround for the issue.
- Intel provides and test operating system drivers for each on-board video, network, and storage controller.
- Intel enables vendors to provide driver support for add-in adapters using these operating systems.
- Intel completes steps to achieve certification to ensure customers do not encounter problems. The actual certification is the responsibility of the customer.

Note: Intel does not provide a support commitment for operating systems, adapter cards, and peripherals not listed in this document. Intel will consider requests for support 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 with particular characteristics will be 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 the client to the server and back match the original without error.
    - Clients remain connected to the server system.
    - Industry standard test suites run to completion without error.

2. Firmware Configurations

The following table lists the controller and firmware configurations tested. This document will be updated with additional configurations as new revisions of the Intel® RAID Controller SRCU41L or firmware versions for that controller are released. Each configuration is assigned an identifier number that is referenced in the tables throughout this document.

Note: Intel will only provide support for adapters and peripherals in the configuration with which they were tested.

Base System Identifier #	Product Code	Part Number	Firmware Revision
1	SRCU41L	C88423-001	Ver. 314G
2	SRCU41L	C88423-002	Ver. 314H
3	SRCU41L		Ver. 314N
4	SRCU41L		Ver. 314P
5	SRCU41L		Ver. 314R
6	SRCU41L		Ver. 314S

3.   Operating Systems

The following table provides a list of supported operating systems for the Intel® RAID Controller SRCU41L. Each operating system was tested for compatibility with the Intel® RAID Controller SRCU41L configuration listed in Section 2. Operating systems are only supported in the specified base system configuration(s) they were tested with.

The following table also indicates whether each operating system received Basic Installation Testing or Adapter / Peripheral Compatibility and Stress Testing. See Section 1 for information on the support commitments for Basic Installation Testing and Adapter / Peripheral Compatibility and Stress Testing.

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 the manufacturer's installation instructions or Intel's best-known methods.

Note: The operating systems listed below have been tested for compatibility with the Intel®
RAID Controller SRCU41L but the operating system and its associated driver may not have been tested for compatibility with the server board you have selected. Refer to the supported operating system list for your server board to verify operating system compatibility with the server board. Only currently shipping OS versions are tested with current firmware and driver versions. Older OS versions may not have been tested with current firmware and drivers. For support of older OS versions, you may need an earlier version of the RAID controller firmware and driver.

Ident#	Operating System	Base System Configuration Tested and Type of Testing	Notes
1	Microsoft Windows 2003*, Service Pack 1	Configuration 1,2,3,4,6 – Compatibility and Stress	
2	Microsoft Windows Small Business Server 2003*	Configuration 1, 2 – Basic Installation	Application portion of the package was not tested and is not supported.
3	Microsoft Windows 2000* Advanced Server, Service Pack 5	Configuration 1, 2, 3 , 4– Compatibility and Stress	
4	Microsoft Windows Small Business Server 2000*	Configuration 1, 2 - Basic Installation	Application portion of the package was not tested and is not supported.
5	Microsoft Windows XP*, SP2	Configuration 1, 2, 3, 4 – Compatibility and Stress	
6	Novell NetWare* 5.1, SP8	Configuration 1 – Basic Installation	
7	Novell* Netware 6.0, SP5	Configuration 1 – Basic Installation	
8	Novell* NetWare 6.5, SP3	Configuration 1, 2, 3, 4 – Compatibility and Stress	
9	SCO* Open Server 5.0.7	Configuration 1, 2 – Basic Installation	
10	SCO* UnixWare 7.1.3	Configuration 1 – Compatibility and Stress	

Ident#	Operating System	Base System Configuration Tested and Type of Testing	Notes
11	SCO* UnixWare 7.1.4	Configuration 2 – Compatibility and Stress	
12	Red Hat* Enterprise Linux AS 3.0, U4	Configuration 1 – Compatibility and Stress	
13	Red Hat* Enterprise Linux AS 3.0, U5	Configuration 2 – Compatibility and Stress	
14	Red Hat* Enterprise Linux AS 4.0	Configuration 1, 2 – Compatibility and Stress	
15	SuSE* Linux Enterprise Server 9.0, SP1	Configuration 1, 2 – Compatibility and Stress	
16	SuSE* Linux Professional 9.1	Configuration 1, 2 – Basic Installation	
17	SuSE* Linux Professional 9.2	Configuration 1, 2 – Basic Installation	
18	Red Hat* Linux Professional 8.0	Configuration 1 – Basic Installation	
19	Red Hat* Linux Professional 9.0	Configuration 2 – Basic Installation	
20	SuSE* Linux Enterprise Server 8.0, SP3	Configuration 1 – Basic Installation	
21	SuSE* Linux Professional 9.0	Configuration 2 – Basic Installation	
22	Microsoft Windows 2003*, EM64T	Configuration 1, 2, 3, 4 – Compatibility and Stress	
23	Red Hat* Enterprise Linux AS 3.0, EM64T, U4	Configuration 1 – Compatibility and Stress	
24	Red Hat* Enterprise Linux AS 3.0, EM64T, U5	Configuration 2 – Basic Installation	
25	Red Hat* Enterprise Linux AS 4.0, EM64T	Configuration 2 – Compatibility and Stress	
26	SuSE* Linux Enterprise Server 9.0, EM64T SP1	Configuration 2 – Compatibility and Stress	
27	Microsoft Windows XP*, EM64T	Configuration 1, 2, 3, 4 – Basic Installation	
28	SuSE* Linux Enterprise Server 9.1, EM64T	Configuration 1, 2, 3 – Basic Installation	
29	Red Hat* Enterprise Linux AS 3.0, EM64T, U6	Configuration 3 – Compatibility and Stress	
30	Red Hat* Enterprise Linux AS 4.0, EM64T, U1	Configuration 3 – Compatibility and Stress	
31	Red Hat*Enterprise Linux AS 4.0, EM64T, U2	Configuration 3, 4 – Compatibility and Stress	
32	Red Hat* Enterprise Linux AS 4.0, U1	Configuration 3, 4 – Compatibility and Stress	
33	SuSE* Linux Enterprise Server 9.0, EM64T SP2	Configuration 3, 4 – Compatibility and Stress	
34	SuSE* Linux Enterprise Server 9.0, EM64T SP3	Configuration 3, 4 – Compatibility and Stress	
35	SuSE* Linux Enterprise Server 9.0, SP2	Configuration 3, 4 – Compatibility and Stress	

Ident#	Operating System	Base System Configuration Tested and Type of Testing	Notes
36	SuSE* Linux Enterprise Server 9.0, SP3	Configuration 3, 4 – Compatibility and Stress	
37	Red Hat* Enterprise Linux AS 4.0, U2	Configuration 3, 4 – Compatibility and Stress	

3.1   Operating System Certifications

Listed below are the operating systems that Intel will certify with the Intel® RAID Controller SRCU41L. Each customer is responsible for their own certification from the individual operating system vendors. In many cases, customers may leverage their operating system certifications from the testing completed by Intel. See the "Comments" column 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	Comment
Microsoft Windows 2003* Enterprise Server	SRCU41L	OEM must request certification by Microsoft or their specific product. Search on SRCU41L http://www.microsoft.com/hwdq/hcl/search.asp http://developer.intel.com/design/servers/whql.htm
Microsoft Windows 2000* Advanced Server	SRCU41L	OEM must request certification by Microsoft for their specific product. Search on SRCU41L http://www.microsoft.com/hwdq/hcl/search.asp http://developer.intel.com/design/servers/whql.htm
Novell NetWare* 5.1 and 6.0, 6.5	SRCU41L	Novell checks Intel's test results, certifies (if appropriate), and posts the certificate on their web site. The customer can leverage the Intel certification if the customer product meets the operating system vendor standard. http://developer.novell.com/yes

4. Intel® Server Boards

This list includes the Intel® Server Board software versions with which the server boards were configured at the time of testing.

Intel® Server Board	Microsoft Windows 2003*	Microsoft Small Business Server 2003*	Microsoft Windows 2000*	Microsoft Small Business Server 2000*	Microsoft Windows XP*	Red Hat* Linux v8.0	Red Hat* Linux v9.0	Red hat* Linux AS2.1	Red hat* Linux AS3.0	Novell NetWare* v6.5	SuSE* Linux ES 9.0 SP3	SuSE* Professional9.0	SCO Open Server* 5.0.7	SCO UnixWare* 7.1.3	SCO UnixWare* 7.1.4	Microsoft Windows 2003* x64	Microsoft Windows XP* x64	Red hat* Linux ES4.0 U2 x86_64	SuSE* Linux ES 9.0 SP3 x86_64
SE7520AF2 **BIOS BMC FRU/SDR HSC** P06 2.31 N/A 1.12	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X		X	X
SR7520JR2 **BIOS BMC FRU/SDR HSC** P10 2.40 N/A 1.08	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X
SE7210TP1-E **BIOS BMC FRU/SDR HSC** P06 N/A 5.8.D N/A	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X
SE7221BA1-E **BIOS BMC FRU/SDR HSC** P0155 N/A N/A N/A	X		X		X		X	X	X							X		X	X
SE7320EP2 **BIOS BMC FRU/SDR HSC** P01 N/A N/A N/A	X		X		X		X	X	X							X		X	X
SE7520RP2 **BIOS BMC FRU/SDR HSC** P01 N/A N/A N/A	X		X		X		X	X	X							X		X	X
SE7221BA1-E **BIOS BMC FRU/SDR HSC** P0155 N/A N/A N/A	X															X		X	

Intel® Server Board	Microsoft Windows 2003*	Microsoft Small Business Server 2003*	Microsoft Windows 2000*	Microsoft Small Business Server 2000*	Microsoft Windows XP*	Red Hat* Linux v8.0	Red Hat* Linux v9.0	Red hat* Linux AS2.1	Red hat* Linux AS3.0	Novell NetWare* v6.5	SuSE* Linux ES 9.0 SP3	SuSE* Professional9.0	SCO Open Server* 5.0.7	SCO UnixWare* 7.1.3	SCO UnixWare* 7.1.4	Microsoft Windows 2003* x64	Microsoft Windows XP* x64	Red hat* Linux ES4.0 U2 x86_64	SuSE* Linux ES 9.0 SP3 x86_64
SE7230NH1-E **BIOS BMC FRU/SDR HSC** 0497P N/A N/A N/A	X															X		X	
S3000AH **BIOS BMC FRU/SDR HSC** R28 N/A N/A N/A	X										X					X		X	X
S5000VSA **BIOS BMC FRU/SDR HSC** R070 56 41 2.05	X										X					X		X	
S5000PSL / XSL / XVN **BIOS BMC FRU/SDR HSC** R070 56 41 2.05	X		X		X					X	X					X	X	X	X
SC5400RA **BIOS BMC FRU/SDR HSC** R057 50 31 N/A	X		X		X					X	X					X	X	X	X
S5000VCL **BIOS BMC FRU/SDR HSC** R058 50 V09 N/A	X		X													X	X	X	X
S3200SH / S3210SH **BIOS BMC FRU/SDR HSC** R33 N/A N/A N/A	X															X			

5.   Enclosures, PCI Adapters, and Peripherals

Testing of enclosures, add-in cards, and peripherals was performed on the Intel® RAID Controller SRCU41L by Intel labs, independent test labs, or the vendor. Compatibility and stress testing was performed with the latest version of an operating system available at the time of testing.

Although a large sample of configurations were tested, not all devices were tested under all operating systems, and not all possible combinations or configurations of third-party devices were tested for inter-compatibility due to the large number of possible configurations. Refer to the Tested Hardware and Operating System List for the server board to verify compatibility.

Add-in adapter card and peripheral compatibility and stress testing is 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 onboard devices are tested by default and are therefore not included in the following tables.

Note: *Not all adapter cards and peripherals were tested under all operating systems.*

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.

Note: *Adapter cards are normally tested 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 onboard controllers when not booting from the controller or needing to use its built-in utilities.*

5.1   External Storage

Note: *Enclosures are listed only if they were attached to the Intel® RAID Controller SRCU41L during testing.*

Manufacturer	Model Name	Model Number	Interface	Comment	Operating System Identifier
Dell	PowerVault 201S		Ultra160		1, 3, 5, 7, 11, 15, 16, 17, 18, 19, 20, 21, 22
Dell	PowerVault 211S		Ultra160		1, 3, 5, 7, 11, 15, 16, 17, 18, 19, 20, 21, 22
Dell	PowerVault 220S		Ultra320		1, 3, 5, 7, 11, 15, 16, 17, 18, 19, 20, 21, 22
StorCase	S10A155		Ultra320		1, 3, 5, 7, 11, 15, 16, 17, 18, 19, 20, 21, 22
StorCase	S10A172		Ultra320		1, 3, 5, 7, 11, 15, 16, 17, 18, 19, 20, 21, 22

5.2   Internal Storage

Note: *Enclosures are listed only if they were attached to the Intel® RAID Controller SRCU41L during testing.*

Manufacturer	Model Name	Model Number	Interface	Comment	Operating System Identifier
Intel	Intel® Server Chassis SC5300		Ultra320/SCA		1, 3, 5, 7, 11, 15, 16, 17, 18, 19, 20, 21, 22
Intel	Intel® Server Chassis SC5250-E		Ultra320/SCA		1, 3, 5, 7, 11, 15, 16, 17, 18, 19, 20, 21, 22
Intel	Intel® Server Chassis SC5275-E		Ultra320/SCA		1, 3, 5, 7, 11, 15, 16, 17, 18, 19, 20, 21, 22
Intel	Intel® Server Chassis SR1400		Ultra320/SCA		1, 3, 5, 7, 11, 15, 16, 17, 18, 19, 20, 21, 22
Intel	Intel® Server Chassis SR1450		Ultra320/SCA		1, 3, 5, 7, 11, 15, 16, 17, 18, 19, 20, 21, 22
Intel	Intel® Server Chassis SR2400		Ultra320/SCA		1, 3, 5, 7, 11, 15, 16, 17, 18, 19, 20, 21, 22

5.3   CD-ROM Drives

Note: CD-ROM drives are listed only if the operating system was installed from this device.

Manufacturer	Model Name	Model Number	Interface	Comment	Operating System Identifier
Sony	CDU5211	CDU5211	IDE		1, 3, 6, 7, 8, 9, 10
Panasonic	AXXDVDFloppy	SR-8177-B	IDE		1, 3, 6, 7, 8, 9, 10

5.4   Tape Drives

Note: Tape drives are listed only if they were attached to the Intel® RAID Controller SRCU41L. during testing.

Manufacturer	Model Name	Model Number	Interface	Comment	Operating System Identifier
Sony	SDX-500	SDX-500C/TB	Ultra2/wide		1, 3,6, 9
Sony	PCBacker II	SDT-11000/PB	Ultra2/wide		1, 3, 6, 7, 8, 9, 10
Seagate	SCORPION* 40		SCSI DDS4 DAT		1, 3, 5, 7, 11, 15, 16, 17, 18, 19,20, 21, 22, 23, 24, 25, 26, 27, 28
Quantum	DLT8000				1, 3, 6, 9
Sony	SDT 9000				3, 5, 6, 8, 10
Seagate	SCORPION* 24	STD2401LW	DDS4 DAT		1, 3, 5, 7, 11, 15, 16, 17, 18, 19, 20, 21, 22

5.5   Hard Disk Controllers

Manufacturer	Model Name	Model Number	Interface	Comment	Operating System Identifier
Adaptec	ASC-39320	ASC-39320	PCI-X* 133		1, 3, 6, 7, 8, 9, 10
Adaptec	ASC-39160	ASC-39160	PCI 64/66		3, 5, 6, 8, 10
Emulex	LightPulse LP9402	LP9402	FC-HBA PCI 64/66		1, 3, 6, 7, 8, 9, 10
LSI Logic	LSI20160	LSI20160	PCI 64/66		1, 3, 6, 9
LSI Logic	LSI20160L	LSI20160L	PCI 64/66		1, 3, 6, 9
QLogic	QLA2200L	QLA2200L	PCI 64/66		1, 3, 6, 7, 8, 9, 10

5.6   SCSI RAID Controllers

Manufacturer	Model Name	Model Number	Interface	Comment	Operating System Identifier
Adaptec	SCSI RAID 2120S	ASR-2120S	PCI 64/66		3, 5, 6, 8, 10
Adaptec	SCSI RAID 2200S	ASR-2200S/64MB	PCI 64/66		1, 3, 6, 9
Adaptec	SCSI RAID 3410S	ASR-3410S	PCI 64/66		1, 3, 6, 9
ICP-Vortex	GDT4523RZ	GDT4523RZ	PCI 32/66		3, 5, 6, 8, 10

Manufacturer	Model Name	Model Number	Interface	Comment	Operating System Identifier
ICP-Vortex	GDT6523RS	GDT6523RS	PCI 32/33		3, 5, 6, 8, 10
ICP-Vortex	GDT8623RZ	GDT8623RZ	PCI 64/66		1, 3, 6, 9, 11
ICP-Vortex	GDT8663RZ	GDT8663RZ	PCI 64/66		1, 3, 6, 9, 11
Intel	Intel® RAID Controller SRCU31L	SRCU31LA	PCI 32/33		1, 3, 5, 7, 11, 15, 16, 17, 18, 19, 20, 21, 22
Intel	Intel® RAID Controller SRCU31	SRCU31A	PCI 64/33		1, 3, 5, 7, 11, 15, 16, 17, 18, 19, 20, 21, 22
Intel	Intel® RAID Controller SRCZCR	SRCZCR	PCI 64/66		1, 3, 5, 7, 11, 15, 16, 17, 18, 19, 20, 21, 22
Intel	Intel® RAID Controller SRCU32	SRCU32U	PCI 64/66		1, 3, 6, 9, 11, 15, 16, 17, 18, 19, 20
Intel	Intel® RAID Controller SRCU42L	SRCS42L	PCI 64/66		1, 3, 5, 7, 11, 15, 16, 17, 18, 19, 20, 21, 22
Intel	Intel® RAID Controller SRCS16	SRCS16	PCI 64/66		1, 3, 5, 7, 8, 9, 11, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28
Intel	Intel® RAID Controller SRCZCRX	SRCZCRX	PCI-X*		1, 3, 5, 7, 8, 9, 11, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28
Intel	Intel® RAID Controller SRCU42E	SRCU42E	PCI Express*		1, 3, 5, 7, 8, 9, 11, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28
Intel	Intel® RAID Controller SRCU42X	SRCU42X	PCI-X*		1, 3, 5, 7, 8, 9, 11, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28
Intel	Intel® RAID Controller SRCS28X	SRCS28X	PCI-X*		1, 3, 5, 7, 8, 9, 11, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28

5.7 Network Interface Controllers

Manufacturer	Model Name	Model Number	Interface	Comment	Operating System Identifier
Intel	Intel® PRO/100+ S Server Adapter	PILA8470D3G1P20	PCI 32/33		1, 3, 5, 7, 8, 9, 11, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28
Intel	Intel® PRO/100 S Server Adapter	PILA8470D3G1L	PCI 32/33		3, 5, 6, 8, 10
Intel	Intel® PRO/100 S Dual Port Server Adapter	PILA8472D3G1P	PCI 64/33		1, 3, 6, 9
Intel	Intel® PRO/1000XT Gigabit Server Adapter	PILA8490XTP20	PCI-X 133		1, 3, 5, 7, 8, 9, 11, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28

Intel	Intel® PRO/1000T Server Adapter	PWLA8490T	PCI 64/66		1, 3, 6, 9
Intel	Intel® PRO/1000 XT Server Adapter	PWLA8490XT	PCI-X* 133		3, 5, 6, 8, 10
Intel	Intel® PRO/1000 XT Server Adapter	PWLA8490XTL	PCI-X* 133		3, 5, 6, 8, 10
Intel	Intel® PRO/1000 MF Server Adapter	PWLA8492MF	PCI-X* 133		1, 3, 6, 9
Intel	Intel® PRO/1000MT Dual Port Server Adapter	PWLA8492MT	PCI-X* 133		1, 3, 5, 7, 8, 9, 11, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28

6.   Hard Disk Drives

Enclosure, add-in card, and peripheral testing was performed on the Intel® RAID Controller SRCU41L by Intel labs, independent test labs, or by the vendor. The Intel® RAID Controller SRCU41L compatibility and stress testing is performed with the latest version of an operating system at the time of testing. Although a large sample of configurations were tested, not all devices were tested under all operating systems, and not all possible combinations or configurations of third-party devices were tested for inter-compatibility due to the large number of possible configurations. Customers should see the Tested Hardware and Operating System List for the server board to verify compatibility.

Add-in adapter card and peripheral compatibility and stress testing are performed with the latest version of an operating system available at the time of testing. 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 onboard devices are tested by default and are therefore not included in the following tables.

Note: Not all adapter cards and peripherals were tested under all operating systems.

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

Note: Adapters cards are normally tested 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 the onboard controllers when not booting from the controller or using its built-in utilities.

6.1   Hard Disk Drives

Note: Hard disk drives are listed only if they were attached to the Intel® RAID Controller SRCU41L during testing.

Manufacturer	Model Name	Model Number	Interface	RPM	Drive Size	Tested Operating Systems
Fujitsu		MAP3147NC	Ultra320	10 K	147 GB	1, 3, 5, 7, 18, 19, 21, 22
Fujitsu*	Allegro 5	MAG3182LC	Ultra160/SCA	10 K	18 GB	1, 3, 6, 9
Fujitsu*	Allegro 7LX	MAM3184MC	Ultra160/SCA	15 K	18 GB	1, 3, 6, 7, 8, 9, 10
Fujitsu*		MAS3184NC	Ultra320	15 K	18 GB	1, 3, 5, 7, 18, 19, 21, 22
Fujitsu*	Allegro 7 LE	MAN3367MC	Ultra160/SCA	10 K	37 GB	1, 3, 6, 7, 8, 9, 10
Fujitsu*		MAP3367NC	Ultra320	10 K	37 GB	1, 3, 5, 7, 18, 19, 21, 22, 23, 25, 26, 27, 28
Fujitsu*		MAS3367NC	Ultra320	15 K	37 GB	1, 3, 5, 7, 18, 19, 21, 22
Fujitsu*		MAP3735NC	Ultra320	10 K	73 GB	1, 3, 5, 7, 18, 19, 21, 22

Manufacturer	Model Name	Model Number	Interface	RPM	Drive Size	Tested Operating Systems
Fujitsu		MAS3735NC	Ultra320	15 K	73 GB	1, 3, 5, 7, 18, 19, 21, 22
Fujitsu	Allegro* 5 LE	MAE3091LC	Ultra160/SCA	15 K	9 GB	3, 5, 6, 8, 10
Hitachi	Ultrastar* 146Z10	IC35L146UCDY10-0,	Ultra320/SCA	10 K	146 GB	1, 3, 5, 7, 18, 19, 21, 22
Hitachi	Ultrastar 146Z10	IC35L018UCDY10-0	Ultra320/SCA	10 K	18 GB	1, 3, 5, 7, 18, 19, 21, 22
Hitachi	Ultrastar 146Z10	IC35L036UCDY10-0	Ultra320/SCA	10 K	36 GB	1, 3, 5, 7, 18, 19, 21, 22
Hitachi	Ultrastar 146Z10	IC35L073UCDY10-0	Ultra320/SCA	10 K	73 GB	1, 3, 5, 7, 18, 19, 21, 22
Hitachi	Ultrastar 10K300	HUS103030FL3800	Ultra320/SCA	10 K	300 GB	1, 3, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 17, 22, 23, 25, 27, 28, 29, 30, 31,32
Hitachi	Ultrastar 10K300	HUS103014FL3800	Ultra320/SCA	10 K	147 GB	1, 3, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 17, 22, 23, 25, 27, 28, 29, 30, 31,37
Hitachi	Ultrastar 10K300	HUS103073FL3800	Ultra320/SCA	10 K	73 GB	1, 3, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 17, 22, 23, 25, 27, 28, 29, 30, 31,34
Hitachi	Ultrastar 15K147	HUS151414FL3800	Ultra320/SCA	15 K	147 GB	1, 3, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 17, 22, 23, 25, 27, 28, 29, 30, 31,33
Hitachi	Ultrastar 15K147	HUS151473FL3800	Ultra320/SCA	15 K	73 GB	1, 3, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 17, 22, 23, 25, 27, 28, 29, 30, 31,36
Hitachi	Ultrastar 15K147	HUS151436FL3800	Ultra320/SCA	15 K	36 GB	1, 3, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 17, 22, 23, 25, 27, 28, 29, 30, 31,32
IBM	UltraStar 146ZN	IC35L146UCDY10-0	Ultra320/SCA	10 K	146 GB	1, 3, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 17, 22, 23, 25, 27, 28, 29, 30, 31,35
IBM	UltraStar 36Z15	IC35L018UCPR15	Ultra160/SCA	15 K	18 GB	3, 5, 6, 8, 10
IBM	UltraStar 73LZX	IC35L036UCD210	Ultra160/SCA	10 K	36 GB	1, 3, 6, 9
Maxtor	Atlas 10K IV	8B146L0	Ultra320/SCA	10 K	146 GB	1, 3, 5, 7, 18, 19, 21, 22, 23, 24, 25, 27, 28
Maxtor	Atlas 10K IV	8B146J0	Ultra320/SCA	10 K	146 GB	1, 3, 5, 7, 18, 19, 21, 22
Maxtor	Atlas 10K III-Ultra320	KU18J017	Ultra320/SCA	10 K	18 GB	1, 3, 6, 9
Maxtor	Atlas 10K III-Ultra320	KU18J07E	Ultra320/SCA	10 K	18 GB	3, 5, 6, 8, 10
Maxtor	Atlas 10K IV	8B036L0	Ultra320	10 K	36 GB	1, 3, 5, 7, 18, 19, 21, 22
Maxtor	Atlas 10K IV	8B036J0	Ultra320/SCA	10 K	36 GB	1, 3, 5, 7, 18, 19, 21, 22
Maxtor	Atlas 10K III-Ultra320	KU73J017	Ultra320/SCA	10 K	73 GB	1, 3, 6, 9

Manufacturer	Model Name	Model Number	Interface	RPM	Drive Size	Tested Operating Systems
Maxtor	Atlas 10K IV	8B073L0	Ultra320	10 K	73 GB	1, 3, 5, 7, 18, 19, 21, 22
Maxtor	Atlas 10K IV	8B073J0	Ultra320/SCA	10 K	73 GB	1, 3, 5, 7, 18, 19, 21, 22
Quantum	Atlas 10K III	KW18J014	Ultra320/SCA	10 K	18 GB	3, 5, 6, 8, 10
Quantum	Atlas 10K III	KW36J011	Ultra160/SCA	10 K	36 GB	1, 3, 6, 9
Quantum	Atlas IV	KN09J011	Ultra160/SCA	7.2 K	9 GB	1, 3, 6, 7, 8, 9, 10
Quantum	Atlas IV	KN09L011	Ultra160/Wide	7.2 K	9 GB	1, 3, 6, 7, 8, 9, 10
Seagate	Cheetah* 73	ST173404LC	Ultra160/SCA	10 K	73 GB	3, 5, 6, 8, 10
Seagate	Cheetah 36ES	ST318406LC	Ultra160/SCA	10 K	18 GB	1, 3, 6, 7, 8, 9, 10
Seagate	Cheetah X15	ST318451LC	Ultra160/SCA	15 K	18 GB	1, 3, 6, 7, 8, 9, 10
Seagate	Cheetah X15	ST318432LC	Ultra320/SCA	15 K	18 GB	1, 3, 6, 7, 8, 9, 10
Seagate	Cheetah X15	ST318452LC	Ultra160/SCA	15 K	18 GB	1, 3, 6, 9
Seagate	Cheetah 15K.3	ST318453LC	Ultra320/SCA	15 K	18 GB	1, 3, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 17
Seagate	Cheetah 73LP	ST336605LC	Ultra160/SCA	10 K	36 GB	1, 3, 6, 9
Seagate	Cheetah 10K.6	ST336607LC	Ultra320/SCA	10 K	36 GB	1, 3, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28
Seagate	Cheetah 10K.6	ST3146807LC	Ultra320/SCA	10 K	146 GB	1, 3, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28
Seagate		ST336732LC	Ultra320/SCA	15 K	36 GB	1, 3, 5, 7, 11, 15, 16, 177, 18, 19, 21, 21, 22
Seagate		ST336432LC	Ultra320/SCA	15 K	36 GB	1, 3, 5, 7, 11, 15, 16, 177, 18, 19, 21, 21, 22
Seagate	Cheetah 15K.3	ST373453LC	Ultra320/SCA	15 K	73 GB	1, 3, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 22
Seagate	Barracuda 18XL	ST39236LC	Ultra160/SCA	7.2 K	9 GB	1, 3, 6, 9
Seagate	Cheetah 18XL	ST39204LC	Ultra160/SCA	10 K	9 GB	1, 3, 6, 7, 8, 9, 10
Seagate	Barracuda* 18XL	ST39236LC	Ultra160/SCA	7.2 K	9 GB	1, 3, 6, 9
Seagate	10K7	ST3300007LC	Ultra320/SCA	10 K	300 GB	1, 3, 5, 8, 22, 27, 31, 32, 33, 34, 35, 36, 37
Seagate	10K7	ST3146707LC	Ultra320/SCA	10 K	146 GB	1, 3, 5, 8, 22, 27, 31, 32, 33, 34, 35, 36, 37
Seagate	10K7	ST373207LC	Ultra320/SCA	10 K	73 GB	1, 3, 5, 8, 22, 27, 31, 32, 33, 34, 35, 36, 37

Manufacturer	Model Name	Model Number	Interface	RPM	Drive Size	Tested Operating Systems
Seagate	15K4	ST3146854LC	Ultra320/SCA	15 K	146 GB	1, 3, 5, 8, 22, 27, 31, 32, 33, 34, 35, 36, 37
Seagate	15K4	ST373454LC	Ultra320/SCA	15 K	73 GB	1, 3, 5, 8, 22, 27, 31, 32, 33, 34, 35, 36, 37
Seagate	15K4	ST336754LC	Ultra320/SCA	15 K	36 GB	1, 3, 5, 8, 22, 27, 31, 32, 33, 34, 35, 36, 37