



Intel[®] RAID Controller SRCS14L

Tested Hardware and Operating System List

Revision 3.0

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Enterprise Platforms and Services Marketing

Revision History

Date	Revision Number	Modifications
3/18/03	1.0	Initial Release
11/6/03	2.0	Added latest test results
12/28/05	3.0	Added latest test results

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1. Introduction

This document provides users of the Intel® RAID Controller SRCS14L with a guide to the operating systems, server boards, chassis, disk drives, and other peripherals that Intel tested for use with the RAID controller.

This document will be updated as additional testing is performed, or until the RAID controller is no longer in production. Each new release of the document will include the information from previous releases.

Intel will only support this RAID controller when used in a system configured with the server boards listed, and configured with the versions of RAID firmware, system BIOS / firmware, and operating system versions that were successfully tested. This RAID controller has been thoroughly tested with the Intel® server boards, Intel drive enclosures, and with the third-party devices listed in this document. However, it is not practical to test the RAID controller with every possible combination of server board, drive enclosure, hard drive, and peripheral. Sample combinations have been tested to gain added confidence in their inter-compatibility, and every device listed has been tested in one or more configurations.

1.1 Test Overview

Testing performed of the RAID Controller SRCS14L is classified under two categories: Compatibility Testing and Stress Testing.

1.1.1 Basic Installation 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 of proprietary and industry standard test suites.

Note: *The latest version of an operating system signifies the latest supported version at the time of the actual test run. New releases of this document may include a newly supported release of a given 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 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. Intel does not require vendors 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 an 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, onboard 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:** 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 require a complete test restart.

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 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 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, onboard 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.

Note: Intel does not provide a support commitment for operating systems, adapter cards, and peripherals not listed in this document. Intel will consider support requests individually.

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:

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 individually. 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 without error.
 - Clients remain connected to the server system.
 - Industry standard test suites run to completion without error.

2. Intel® RAID Controller SRCS14L Firmware Configurations

The following table lists the controller / firmware configurations tested. This document will be updated with additional configurations as new revisions of the RAID Controller SRCS14L and/or firmware versions for that controller are released. Each configuration is assigned an identifier number which is referenced in the tables throughout this document.

Intel will only provide support for adapters and peripherals under the specified adapter configuration and operating systems versions with which they were tested.

Base System Identifier #	Product Code	Part Number	Firmware Revision
1	SRCS14L	C23028-003	Ver 2.36.02-R048
2	SRCS14L	Web Post	Ver 2.36.04-R05F
3	SRCS14L	Web Post	Ver 2.42.02-R07A

3. Operating Systems

The following table provides a list of supported operating systems for the Intel® RAID Controller SRCS14L. Each operating system was tested for compatibility with RAID Controller SRCS14L configuration listed in Section 2. 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. 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 manufacturer's installation instructions or Intel's best-known methods.

Note: *The operating systems listed below have been tested for compatibility with the RAID Controller SRCS14L but the operating system and its associated driver may not have been tested for compatibility with the server board you have chosen to use. See the supported operating system list for your server board to verify operating system support compatibility with the server board.*

Ident#	Operating System	Base System Configuration Tested and Type of Testing	Notes
1	SCO OpenUnix* v8.0	Configuration 1 – Compatibility and Stress Configuration 2 – Compatibility and Stress Configuration 3 – Compatibility and Stress	
2	Caldera* Linux 3.1	Configuration 1 – Compatibility and Stress Configuration 2 - Basic Installation Configuration 3 - Basic Installation	
3	Debian* 2.2r6	Configuration 1 – Compatibility and Stress	
4	FreeBSD* 4.4 and 4.5	Configuration 1 – Compatibility and Stress	
5	Mandrake* 8.1	Configuration 1 – Compatibility and Stress	
6	Microsoft Windows 2000* Advanced Server, Service Pack 2and3	Configuration 1 – Compatibility and Stress Configuration 2 – Compatibility and Stress Configuration 3 – Compatibility and Stress	

Ident#	Operating System	Base System Configuration Tested and Type of Testing	Notes
7	Microsoft Windows NT* 4.0, Service Pack 6a	Configuration 1 – Compatibility and Stress	
8	Novell NetWare* 5.1, Service Pack 4	Configuration 1 – Compatibility and Stress Configuration 2 - Basic Installation Configuration 3 - Basic Installation	
9	Novell Netware* 6.0, Service Pack 1	Configuration 1 – Compatibility and Stress Configuration 2 – Compatibility and Stress Configuration 3 – Compatibility and Stress	
10	Red Hat* Linux 7.0	Configuration 1 – Compatibility and Stress	
11	Red Hat* Linux 7.1	Configuration 1 – Compatibility and Stress	
12	Red Hat* Linux 7.2	Configuration 1 – Compatibility and Stress	
13	Red Hat* Linux 7.3	Configuration 1 – Compatibility and Stress	See IG 7.1
14	Red Hat* Linux 8.0	Configuration 1 – Compatibility and Stress, Configuration 2 – Compatibility and Stress Configuration 3 – Compatibility and Stress	See IG7.2
15	SCO Open Server* 5	Configuration 1 – Compatibility and Stress Configuration 2 - Basic Installation Configuration 3 - Basic Installation	
16	SCO Unixware* 7.1.1	Configuration 1 – Compatibility and Stress Configuration 2 - Basic Installation Configuration 3 - Basic Installation	
17	SuSE* Linux 7.3	Configuration 1 – Compatibility and Stress	
18	Turbo Linux* 7	Configuration 1 – Compatibility and Stress Configuration 2 - Basic Installation Configuration 3 - Basic Installation	
19	Red Hat* Advanced Server 2.13	Configuration 1 – Compatibility and Stress Configuration 2 - Basic Installation Configuration 3 - Basic Installation	See IG 7.3
20	Microsoft* Windows* Server 2003	Configuration 2 – Compatibility and Stress Configuration 3 – Compatibility and Stress	

Ident#	Operating System	Base System Configuration Tested and Type of Testing	Notes
21	Red Hat* Linux 9.0	Configuration 2 – Compatibility and Stress Configuration 3 – Compatibility and Stress	
22	SCO Unixware* 7.1.3	Configuration 2 – Basic installation Configuration 3 - Basic Installation	
23	Microsoft* Windows* Small Business Server 2000	Configuration 3 Basic Installation	Application portion of the package was not tested and is not supported.
24	Microsoft* Windows* Small Business Server 2003	Configuration 3 Basic Installation	Application portion of the package was not tested and is not supported.
25	Microsoft* Windows* Server 2003 EM64T	Configuration 4 – Compatibility and Stress	
26	Redhat* EL 4.0 IA32E	Configuration 4 – Compatibility and Stress	
27	Redhat* EL 3.0	Configuration 3 – Compatibility and Stress	
28	Redhat* EL 3.0 IA32E	Configuration 4 – Compatibility and Stress	
29	Redhat* EL 3.0 U3	Configuration 3, 4 – Compatibility and Stress	
30	Novell* Netware* 6.5	Configuration 3, 4 – Compatibility and Stress	
31	SuSE* Professional 9.0	Configuration 3, 4 – Compatibility	
32	SuSE* Professional 9.1 Intel® EM64T	Configuration 4 – Compatibility and Stress	
33	SuSE* EL 9.0	Configuration 4 – Compatibility and Stress	
34	SuSE* EL 9.0 EM64T	Configuration 4 – Compatibility and Stress	

1. The SRCS14L with Red Hat* 7.3 requires the use of kernel patch 18-5. Full compatibility and stress testing were not performed. Support for this configuration will be limited to simple debug only.
2. The SRCS14L with Red Hat* 8.0 requires the use of kernel patch 18-18.8.0. Full compatibility and stress testing were not performed. Support for this configuration will be limited to simple debug only.
3. The SRCS14L with Red Hat* Advanced Server requires the use of kernel patch 2.4.9-e.12.i686 or later.

3.1 Operating System Certifications

Listed below are the operating systems that Intel will certify with the Intel® RAID Controller SRCS14L. 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	Comment
Microsoft Windows 2003* Enterprise Server	SRCS14L	OEM must request certification by Microsoft or their specific product. Search on SRCS14L. http://www.microsoft.com/hwdq/hcl/search.asp http://developer.intel.com/design/servers/whql.htm
Microsoft Windows 2000* Advanced Server	SRCS14L	OEM must request certification by Microsoft for their specific product. Search on SRCS14L. http://www.microsoft.com/hwdq/hcl/search.asp http://developer.intel.com/design/servers/whql.htm
Novell NetWare* 5.1 and 6.0	SRCS14L	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
Red Hat* Linux 7.2 and 7.3		Red Hat checks Intel's results, certifies (if appropriate), and posts the certificate on their web site. The customer can leverage the Intel certification if customer product meets the operating system vendor standard. http://hardware.redhat.com/hcl/?pagename=hclandview=certifiedandvendor=399andclass=9#list

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*	Mircosoft SBS 2003*	Microsoft Windows 2000*	Microsoft SBS 2003*	Microsoft Windows NT*	Red Hat* Linux v7.3	Red Hat* Linux v8.0	Red Hat* Linux v9.0	Novell* NetWare v5.1	Novell* NetWare v6.0	Turbo* Linux 7.0	SuSE* Professional 8	Caldera* OpenUnix v8.0
SCB2 ¹ Version Tested BIOS BMC FRU/SDR HSC 2.12 63 5.0.P N/A			X			X	X	X		X	X		
SDS2 Version Tested BIOS BMC FRU/SDR HSC 3.2 32 5.0.E N/A			X							X			X
SE7500CW2 BIOS BMC FRU/SDR HSC P17 N/A N/A N/A	X	X	X	X		X	X		X	X	X		X
SE7501CW2 BIOS BMC FRU/SDR HSC P07 N/A N/A N/A	X	X	X	X		X	X			X		X	
SE7505VB2 BIOS BMC FRU/SDR HSC 1.07 N/A N/A N/A	X	X	X	X	X	X	X	X	X	X	X	X	X

Intel® Server Board	Microsoft Windows 2003*	Mircosoft SBS 2003*	Microsoft Windows 2000*	Microsoft SBS 2003*	Microsoft Windows NT*	Red Hat* Linux v7.3	Red Hat* Linux v8.0	Red Hat* Linux v9.0	Novell* NetWare v5.1	Novell* NetWare v6.0	Turbo* Linux 7.0	SuSE* Professional 8	Caldera* OpenUnix v8.0
SE7501WV2 ¹ BIOS BMC FRU/SDR HSC P05 1.19 5.6.9 0.07 / 0.05	X	X	X	X	X	X	X		X	X	X	X	X
SE7501BR2 BIOS BMC FRU/SDR HSC P13 1.18 5.5.i .10	X	X	X	X		X	X	X	X	X	X	X	X
S875WP1-E BIOS BMC FRU/SDR HSC P07 N/A N/A N/A	X	X	X	X	X			X					
SE7320SP2 BIOS BMC FRU/SDR HSC P06 2.40 1.40 N/A	X	X					X	X					
SE7525GP2 BIOS BMC FRU/SDR HSC P06 2.40 1.40 N/A	X	X		X				X					
SE7520AF2 BIOS BMC FRU/SDR HSC P02 N/A 6.4.1 1.12	X	X	X	X		X	X	X	X	X	X	X	X
SE7520JR2 BIOS BMC FRU/SDR HSC P09 2.40 N/A 1.06	X	X	X				X	X					
SE7501HG2 BIOS BMC FRU/SDR HSC P10 1.17 5.5.1 .10	X	X	X	X		X	X	X		X	X	X	X

¹ Testing was performed on the SCSI version of this product.

5. Enclosures, PCI Adapters, and Peripherals

Enclosure, add-in card, and peripheral testing was performed on the Intel® RAID Controller SRCS14L by Intel Labs, by independent test labs, or by the vendor. Compatibility and stress testing is performed with the latest version of an operating system at the time the validation testing occurred.

Although a large sample of configurations were tested, due to the large number of possible configurations, 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. Customers should see the *Tested Hardware and Operating System List* for the server board to verify that the device is included for the server board as well as for the RAID controller SRCS14L.

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: *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 onboard controllers when not booting from the controller or needing to use its built in utilities.*

5.1 External Storage

Note: Enclosures are list ONLY if they were attached to the RAID Controller SRCS14L.

Manufacturer	Model Name	Model Number	Interface	Comment	Operating System Identifier
None					

5.2 Internal Storage

Note: Enclosures are list ONLY if they were attached to the RAID Controller SRCS14L.

Manufacturer	Model Name	Model Number	Interface	Comment	Operating System Identifier
Intel®	SC5300/4 Port and 6 Port Intelligent Backplane		SATA I		1, 3, 5, 6, 7, 8, 9, 10, 11
Intel®	SC5250-E/4 Port and 6 Port Intelligent Backplane		SATA I		1, 3, 5, 6, 7, 8, 9, 10, 11
Intel®	SC5275-E/4 Port and 6 Port Intelligent Backplane		SATA I		1, 3, 5, 6, 7, 8, 9, 10, 11

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
Lite-ON*	LTN-526S	LTN-526S	IDE		2, 3, 5
Panasonic*	AXXDVDFloppy	SR-8177-B	IDE		1, 2, 3, 5
Samsung*	CD-Master 24E	SN-124P/MMI	IDE		5
Samsung*	CD-Master 52E	SC-152	IDE		1, 2, 3, 5, 6
Sony*	CDU5211	CDU5211	IDE		2, 3, 5
Teac*	CD-224E	CD-224E	IDE		3, 6, 8, 11

5.4 Tape Drives

Note: Tape drives are listed ONLY if they were attached to the RAID Controller SRCS14L.

Manufacturer	Model Name	Model Number	Interface	Comment	Operating System Identifier
None					

5.5 Hard Disk Controllers

Manufacturer	Model Name	Model Number	Interface	Comment	Operating System Identifier
Adaptec*	ASC-39320	ASC39320	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
Adaptec*	ASC-39320	ASC39320	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

5.6 RAID Controllers

Manufacturer	Model Name	Model Number	Interface	Comment	Operating System Identifier
Adaptec*	RAID 2120S	ASR-2120S	PCI-64/66		3, 5, 6, 8, 10
Adaptec*	SCSI RAID 2200S	ASR-2200S/64MB	PCI		1, 3, 6, 9
Adaptec*	RAID 3410S	ASR-3410S	PCI-64/66		1, 3, 6, 9
ICP-Vortex*	GDT4523RZ	GDT4523RZ	PCI-32/66		3, 5, 6, 8, 10
ICP-Vortex*	GDT6523RS	GDT6523RS	PCI-32/33		3, 5, 6, 8, 10
ICP-Vortex*	GDT8623RZ	GDT8623RZ	PCI-64/66		1, 3, 6, 9
ICP-Vortex*	GDT8663RZ	GDT8663RZ	PCI-64/66		1, 3, 6, 9
Intel®	SRCU31L	SRCU31LA	PCI-32/33		1, 3, 5, 6, 8
Intel®	SRCU31	SRCU31A	PCI-64/33		1, 3, 5, 6, 8
Intel®	SRCS14L	SRCS14L	PCI-64/66		1, 3, 6, 9, 10, 11
Intel®	SRCU32	SRCU32U	PCI-64/66		1, 3, 6, 9, 10, 11
Intel®	SRCU42L	SRCU42L	PCI-64/66		1, 3, 6, 9, 10, 11
Intel®	SRCU42X	SRCU42X	PCI-X		1, 3, 5, 6, 7, 8, 9, 10, 11
Intel®	SRCS14LX	SRCS14LX	PCI-X		1, 3, 5, 6, 7, 8, 9, 10, 11
Intel®	SRCU42E	SRCU42E	PCI Express		1, 3, 5, 6, 7, 8, 9, 10, 11
Intel®	SRCS16	SRCS16	PCI-64/66		1, 3, 5, 6, 7, 8, 9, 10, 11

5.7 Network Interface Controllers

Manufacturer	Model Name	Model Number	Interface	Comment	Operating System Identifier
3COM*	3c996-TX Gigabit Server Adapter	3c996-TX	PCI-X66		2, 3, 4, 5, 6, 7, 8, 10, 11, 16, 18
3Com*	Fast Etherlink XL PCI	3C905C-TX-M	PCI		1, 6, 9, 13, 14, 19, 23
3Com*	Etherlink Server 10/100 PCI	3C980C-TXM	PCI		1, 6, 9, 12, 13, 14, 19, 23
3Com*	Gigabit Etherlink Server	3C985B-SX	PCI64		14, 19
3Com*	10/100/1000 PCI-X Server	3C996B-T	PCI-X/133		14, 19
3Com*	10/100/1000 PCI-X Server	3C996-T	PCI-X/133		14
DLink*	DFE - 530/TX+	DFE - 530/TX+	PCI-32/33		2, 3, 4, 5, 6, 7, 8, 10, 11, 16, 18
Intel®	PRO/100+ S Server	PILA8470D3G1P20	PCI-32/33		2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 16, 18
Intel®	Pro/100 S Server	PILA8470D3G1L	PCI-32/33		2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 20, 23
Intel®	Pro/100 S Dual Port Server adapter	PILA8472D3G1P	PCI64/33		2, 3, 4, 5, 6, 7, 8, 10, 11, 14, 16, 18
Intel®	PRO/1000XT Gigabit Server Adapter	PILA8490XTP20	PCI-X133		2, 3, 4, 5, 6, 7, 8, 10, 11, 16, 18
Intel®	PRO/1000T	PWLA8490T	PCI-64/66		2, 3, 4, 5, 6, 7, 8, 10, 11, 16, 18
Intel®	PRO/1000XF Gigabit Server Adapter	PWLA8490XF	PCI-X133		1, 6, 9, 12, 13, 14, 19, 20
Intel®	Pro/1000 MT Server Adapter	PWLA8490MT	PCI-X/133		6, 9, 14, 19, 20
Intel®	Pro/1000 F Gigabit Server Adapter	PWLA8490SX	PCI64/66		6, 9, 14, 15
Intel®	Pro/1000 XF Server Adapter	PWLA8490XFGL	PCI-X/133		1, 6, 9, 13, 14, 19, 23
Intel®	Pro/1000 XT Server Adapter	PWLA8490XT	PCI-X/133		1, 6, 9, 12, 13, 14, 19, 23
Intel®	Pro/1000 XT Server Adapter	PWLA8490XTL	PCI-X/133		1, 6, 9, 12, 13, 14, 23
Intel®	Pro/1000 MF Server Adapter	PWLA8492MF	PCI-X/133		1, 6, 9, 13, 14
Intel®	PRO/1000MT Dual Port Server Adapter	PWLA8492MT	PCI-X133		1, 9, 14

6. Hard Disk Drives

Enclosure, add-in card, and peripheral testing was performed on the Intel® RAID Controller SRCS14L by Intel Labs, by independent test labs, or by the vendor. The RAID Controller SRCS14L compatibility and stress testing is performed with the latest version of an operating system at the time the validation testing occurred. Although a large sample of configurations was tested, due to the large number of possible configurations, 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. Customers should see the Tested Hardware and Operating System List for the server board to verify that the device is included for the server board as well as for the RAID Controller SRCS14L.

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 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: *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 onboard controllers when not booting from the controller or needing to use its built-in utilities.*

6.1 Hard Disk Drives

Note: Hard disk drives are listed ONLY if they were attached to the RAID Controller SRC14L during testing.

Manufacturer	Model Name	Model Number	Interface	RPM	Drive Size in GB	Tested Operating Systems
Fujitsu*		MHT2080	SATA	7200	80 GB	
Hitachi*	Deskstar 7K250-120	HDS722512VLSA80	SATA	7200	120 GB	
Hitachi*	Deskstar 7K250-160	HDS722516VLSA80	SATA	7200	160 GB	
Hitachi*	Deskstar 7K250-250	HDS722525VLSA80	SATA	7200	250 GB	
Hitachi*	Deskstar 7K250-80	HDS722580VLSA80	SATA	7200	80 GB	
Maxtor*	DiamondMax Plus 9	6Y0120	SATA	7200	120 GB	
Maxtor*	DiamondMax Plus 9	6Y060	SATA	7200	60 GB	
Maxtor*	DiamondMax Plus 9	6Y080	SATA	7200	80 GB	
Maxtor*	DiamondMax Plus 9	6Y0160	SATA	7200	160 GB	
Maxtor*	DiamondMax Plus 9	6Y0200	SATA	7200	200 GB	
Western Digital*	WD Raptor	WD740GD	SATA	7200	36 GB	
Western Digital *	WD Caviar	WD1600SD	SATA	7200	160 GB	
Western Digital *	WD Caviar REWD Caviar R	WD2500SD	SATA	7200	250 GB	
Seagate*	Barracuda	ST3120022AS	SATA	7200	120 GB	
Seagate*	Barracuda	ST3120026AS	SATA	7200	120 GB	
Seagate *	Barracuda	ST3160021AS	SATA	7200	160 GB	
Seagate*	Barracuda	ST3160023AS	SATA	7200	160 GB	
Seagate*	Barracuda	ST3200822AS	SATA	7200	200 GB	
Seagate*	Barracuda	ST380011AS	SATA	7200	80 GB	
Seagate*	Barracuda	ST380013AS	SATA	7200	80 GB	

7. Reported Issues

7.1 Red Hat Linux* 7.3 segmentation fault with an Intel® RAID controller installed

Issue: When using the normal installation of Red Hat Linux* 7.3 with the 2.4.18-3 kernel and an Intel RAID controller installed, the following issue is seen:

- A shutdown command results in a segmentation fault.
- It is not possible to use some tools such as storcon.
- Accessing the proc file system via `cat /proc/scsi/gdth/#` (where “#” is the controller number), also results in a segmentation fault.

This issue occurs only when using Red Hat kernel version 2.4.18-3 installed with SMP support, and it is not server board or RAID controller specific.

Implication: The Red Hat Linux 7.3, 2.4.18-3 SMP kernel does not function properly with the Intel RAID controller driver. See <https://rhn.redhat.com/errata/RHBA-2002-292.html>.

Guideline: Red Hat Linux kernel version 2.4.18-5 resolves this issue.

Status: This issue has been resolved in Red Hat Linux kernel version 2.4.18-5.

7.2 Red Hat Linux* 8.0 segmentation fault with an Intel® RAID controller installed

Issue: When using the normal installation of Red Hat Linux* 8.0 with the 2.4.18-14 kernel and an Intel® RAID controller installed, the following issue is seen:

- A shutdown command results in a segmentation fault.
- It is not possible to use some tools such as storcon.
- Accessing the proc file system via `cat /proc/scsi/gdth/#` (where “#” is the controller number), also results in a segmentation fault.

This issue occurs only when using Red Hat kernel version 2.4.18-14 installed with SMP support, and it is not server board or RAID controller specific.

Implication: The Red Hat Linux 7.3, 2.4.18-14 SMP kernel does not function properly with the Intel RAID controller driver. See <https://rhn.redhat.com/errata/RHBA-2002-292.html>.

Guideline: Red Hat Linux kernel version 2.4.18-18.8.0 resolves this issue.

Status: This issue has been resolved in Red Hat Linux kernel version 2.4.18-5.

7.3 Red Hat Linux* Advanced Server 2.1 segmentation fault with an Intel® RAID controller installed

Issue: When using the normal installation of Red Hat Linux* AS2.1 using the standard installation package with an Intel RAID controller installed, the following issue is seen:

- A shutdown command results in a segmentation fault.
- It is not possible to use some tools such as storcon.
- Accessing the proc file system (via `cat /proc/scsi/gdth/#` (where “#” is the controller number), also results in a segmentation fault.

This issue occurs only when using the installation kernel version installed with SMP support, and it is not server board or Intel RAID controller specific.

Implication: The Red Hat Linux AS2.1 SMP installation kernel does not function properly with the Intel RAID controller driver. See <https://rhn.redhat.com/errata/RHBA-2003-069.html>.

Guideline: Red Hat Linux kernel-smp-2.4.9-e.12.i686.rpm or later kernel version update resolves this issue

Status: This issue has been resolved in Red Hat Linux kernel version update and will be resolved in future releases of the product.

7.4 Installation of Windows 2003* Stor Port Driver

Issue: When using the normal installation of Windows 2003* using the Stor Port driver integrated on the first release of the installation CD the following issue is seen:

Can not recognize more than 4GB of memory in the server, enabling the PAE option in the boot ini file causes a blue screen.

Implication: The 1.12 Stor Port driver does properly handel DMA requests.

Guideline: Use the Mini Port driver version 3.13 or New Stor Port Driver 1.13 to resolve this issue.

Status: This issue is resolved in Stor Port driver 1.13, this driver has been WHQL logo'd.