



# Intel® Storage System SSR212CC

*Specification Update*

---

*June 2006*



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

Intel may make changes to specifications and product descriptions at any time, without notice.

Designers must not rely on the absence or characteristics of any features or instructions marked "reserved" or "undefined." Intel reserves these for future definition and shall have no responsibility whatsoever for conflicts or incompatibilities arising from future changes to them.

The Intel® Storage Ssystem SSR212CC may contain design defects or errors known as errata which may cause the product to deviate from published specifications. Current characterized errata are available on request.

Contact your local Intel sales office or your distributor to obtain the latest specifications and before placing your product order.

Copies of documents which have an ordering number and are referenced in this document, or other Intel literature, may be obtained by calling 1-800-548-4725 or by visiting Intel's web site at <http://www.intel.com>.

Copyright © Intel Corporation 2006

AlertVIEW, i960, AnyPoint, AppChoice, BoardWatch, BunnyPeople, CablePort, Celeron, Chips, Commerce Cart, CT Connect, CT Media, Dialogic, DM3, EtherExpress, ETOX, FlashFile, GatherRound, i386, i486, iCat, iCOMP, Insight960, InstantIP, Intel, Intel logo, Intel386, Intel486, Intel740, IntelDX2, IntelDX4, IntelSX2, Intel ChatPad, Intel Create&Share, Intel Dot.Station, Intel GigaBlade, Intel InBusiness, Intel Inside, Intel Inside logo, Intel NetBurst, Intel NetStructure, Intel Play, Intel Play logo, Intel Pocket Concert, Intel SingleDriver, Intel SpeedStep, Intel StrataFlash, Intel TeamStation, Intel WebOutfitter, Intel Xeon, Intel XScale, Itanium, JobAnalyst, LANDesk, LanRover, MCS, MMX, MMX logo, NetPort, NetportExpress, Optimizer logo, OverDrive, Paragon, PC Dads, PC Parents, Pentium, Pentium II Xeon, Pentium III Xeon, Performance at Your Command, ProShare, RemoteExpress, Screamlane, Shiva, SmartDie, Solutions960, Sound Mark, StorageExpress, The Computer Inside, The Journey Inside, This Way In, TokenExpress, Trillium, Vivonic, and VTune are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

\*Other brands and names are the property of their respective owners.



## **Contents**

---

<b>Revision History.....</b>	<b>4</b>
<b>Preface.....</b>	<b>5</b>
<b>Summary Table of Changes.....</b>	<b>7</b>
<b>Errata .....</b>	<b>10</b>
<b>Specification Changes .....</b>	<b>13</b>
<b>Specification Clarifications .....</b>	<b>14</b>
<b>Documentation Changes.....</b>	<b>15</b>



## ***Revision History***

---

<b>Date</b>	<b>Revision</b>	<b>Description</b>
June 2006	1.0	Initial release for Production SSR212CC.



## Preface

---

This document is an update to the specifications contained in the Affected Documents/Related Documents table below. This document is a compilation of device and documentation errata, and specification clarifications and changes. It is intended for hardware system manufacturers and software developers of applications, operating systems, or tools.

Information types defined in Nomenclature are consolidated into the Specification Update and are no longer published in other documents.

This document may also contain information that was not previously published.

## Affected Documents/Related Documents

Title
<i>Intel® Storage System SSR212CC Technical Product Specification (TPS)</i>

## Nomenclature

**Errata** are design defects or errors. These may cause the Intel® Storage System SSR212CC behavior to deviate from published specifications. Hardware and software designed to be used with any given system must assume that all errata documented for that system are present on all devices.

**Specification Changes** are modifications to the current published specifications. These changes will be incorporated in any new release of the specification.

**Specification Clarifications** describe a specification in greater detail or further highlight a specification's impact to a complex design situation. These clarifications will be incorporated in any new release of the specification.

**Documentation Changes** include typos, errors, or omissions from the current published specifications. These will be incorporated in any new release of the specification.

**Note:** Errata remain in the Specification Update throughout the product's lifecycle, or until a particular stepping is no longer commercially available. Under these circumstances, errata removed from the Specification Update are archived and available upon request. Specification Changes, Specification Clarifications and Documentation Changes are removed from the Specification Update when the appropriate changes are made to the appropriate product specification or user documentation (Technical Product Specification, etc.).



## General Information

### Identification Information

The specific revisions covered by this Specification Update are as follows:

SE7501JR2 BIOS Revision	SE7501JR2 BMC/IMM Firmware Revision	SE7501JR2 mBMC Firmware Revision	SE7501JR2 FRU/SDR	Backplane Firmware	SRCS28X Firmware Revision
7.40	0.48	2.40	0.0.6	2.00	814C



## Summary Table of Changes

The following table indicates the Errata, Specification Changes, Specification Clarifications, or Documentation Changes that apply to the Intel® Storage System SSR212CC. Intel may fix some of the errata in a future stepping of the component, and account for the other outstanding issues through documentation or specification changes as noted. This table uses the following notations:

### Codes Used in Summary Table

#### Page

(Page): Page location of item in this document.

#### Status

Doc: Document change or update will be implemented.

Fix: This erratum is intended to be fixed in a future release of the product.

Fixed: This erratum has been previously fixed.

NoFix: There are no plans to fix this erratum.

Shaded: This erratum is either new or modified from the previous version of the document.

#### Row



Change bar to the left of table row indicates this erratum is either new or modified from the previous version of the document.



## Errata

## Errata

No.	Page	Status	ERRATA
1	10	NoFix	Red Hat* Enterprise Linux* does not support ACPI sleep or hibernate states
2	10	NoFix	Intel® RAID Controller SRCS28X driver does not install correctly under Red Hat* Enterprise Linux* Server Edition 4, Update 2
3	10	NoFix	If a second system fan fails, no additional fan failure events are logged
4	11	NoFix	System ID LED's are not controllable under Microsoft* Windows Server 2003 Enterprise edition
5	11	NoFix	Red Hat* Enterprise Linux* is not able to detect a new logical drive as a device
6	11	NoFix	A local OS installation using an external CD-ROM must be performed using a USB Hub
7	12	NoFix	Attempting to drag & drop the install.cmd file results in file copy errors
8	12	Nofix	Intel® RAID Controller SRCS28X Web Console Service may halt system





## Specification Changes

No.	Page	Status	SPECIFICATION CHANGES
			None for this revision of this specification update.

## Specification Clarifications

No.	Page	Status	SPECIFICATION CLARIFICATIONS
			None for this revision of this specification update.

## Documentation Changes

No.	Page	Status	DOCUMENTATION CHANGES
			None for this revision of this specification update.



## Errata

---

### 1. Red Hat\* Enterprise Linux\* does not support ACPI sleep or hibernate states

**Problem:** Red Hat\* Enterprise Linux\* Server Edition 4, Update 2, does not support ACPI sleep or hibernate states.

**Implication:** Red Hat\* Enterprise Linux\* only supports ON & OFF states.

**Workaround:** None.

**Status:** Will not Fix.

### 2. Intel® RAID Controller SRCS28X driver does not install correctly under Red Hat\* Enterprise Linux\* Server Edition 4, Update 2

**Problem:** SRCS28X driver does not install correctly.

**Implication:** When an SRCS28X driver install was done using the file ir2-v2.20.4.6-1.noarch.rpm, it failed stating that it was missing a .spec file. If a manual install is performed it will report a broken symbol error on boot up, making the system unbootable.

**Workaround:** To successfully load the Intel® RAID Controller SRCS28X driver during the Red Hat\* Enterprise Linux\* installation, you must use the disk image and not the rpm file. For further instructions, please see readme.txt included with the Intel® RAID Controller SRCS28X driver.

**Status:** Will not Fix.

### 3. If a second system fan fails, no additional fan failure events are logged

**Problem:** Under Microsoft\* Windows\* Server 2003 Enterprise Edition, SP1, if a second SSR212CC system fan fails, no additional fan failure events are logged.

**Implication:** After any single system fan has failed, a Critical event will be logged in the system event log stating that: "One or more fans has failed. Running functional fans at full speed."

**Workaround:** None.

However, if the fan failure(s) is/are corrected, after the system is rebooted, additional fan failure events will be logged.

**Status:** Will not Fix.



**4. System ID LED's are not controllable under Microsoft\* Windows Server 2003 Enterprise edition**

- Problem:** System ID LED's are not controllable under Microsoft\* Windows Server 2003 Enterprise edition.
- Implication:** Intel Storage System SSR212CC Enclosure Management Software running under Microsoft\* Windows\* Server 2003 Enterprise Edition, SP1, does not control the system ID LED's.
- Workaround:** None.
- Status:** Will not Fix.

**5. Red Hat\* Enterprise Linux\* is not able to detect a new logical drive as a device**

- Problem:** Red Hat\* Enterprise Linux\* is not able to detect the new logical drive as a device, until the system reboots.
- Implication:** After creating a RAID array through the Intel® RAID Controller SRCS28X Web Console, Red Hat\* Enterprise Linux\* Server Edition 4, Update 2 is not able to detect the new logical drive as a device, until the system reboots. Since Red Hat\* Enterprise Linux\* does not detect the device it can not be mounted or formatted.
- Workaround:** Reboot the system and the logical drives become visible.
- Status:** Will not Fix.

**6. A local OS installation using an external CD-ROM must be performed using a USB Hub**

- Problem:** A local OS installation using an external CD-ROM must be performed using a USB Hub.
- Implication:** A local OS installation using a CD-ROM can not be performed through the single USB port without using a USB hub. During the OS install, a third party driver must be loaded for the Intel® RAID Controller SRCS28X card, by using a floppy drive. Since the Intel® Storage System SSR212CC has only a single USB port (taken up by a external CD drive), a USB hub must be used.
- Workaround:**
- 1) Use any combination of USB Hub, Floppy and CD-ROM listed in the Intel® Storage System SSR212CC Tested Hardware and Operating System List (THOL), available at the support.intel.com or thru your Intel Business Link account.
  - 2) An SSR212CC USB peripheral kit is available via shop.intel.com.
  - 3) Install the Operating System over the network (also requires a Intel® Boot Agent Server).
- Status:** Will not Fix.



## Errata

### 7. Attempting to drag & drop the install.cmd file results in file copy errors

- Problem:** Attempting to drag & drop the install.cmd file to perform an Enclosure Management Software installation under Microsoft\* Windows\* Storage Server 2003, will result in multiple file copy errors.
- Implication:** If you drag and drop the file install.cmd, it will be looking in the C:\Documents and Settings\ directory for the files that it needs (instead of the proper path), and will give lots of “File not found” and ”0 files copied” errors.
- Workaround:** Per the readme.txt file, do not drag-n-drop. Use the command prompt to do the install (open a DOS window and change the directory to the location of the install.cmd file and run it manually).
- Status:** Will not Fix.

### 8. Intel® RAID Controller SRCS28X Web Console Service may halt system

- Problem:** If you launch the Intel® RAID Controller SRCS28X Web Console (under Red Hat\* Enterprise Linux\*) while the rslinux service is not running, you will receive an error message, “No RAID servers Available.”
- Implication:** After installation of the Intel® RAID Web Console package for the SRCS28X RAID card, interaction with the RAID cards are as expected, but after a reboot, the system would hang on trying to load the service “rslinux”, which is the Web Console Service for the web page servicing.
- Workaround:** Start the rslinux service manually by using the command line “service rslinux start.” However, if it’s not set to start on boot, then when you restart the system it will need to be manually started again.
- Using interactive startup to disable this service will result in booting normally, but without user interaction, the system will always come to a halt. If you disable the service from starting up at boot time, the user will have no hangs during boot, but then the Web Console software ceases to function.
- The easiest way is to disable the process from starting on boot, is to do it right after you install the program before you restart the system. If you don’t do this, then you’ll have to do an interactive start up. When it starts to load the Red Hat\* Enterprise Linux\* processes, you can press “I” to enter the interactive start up, and it will ask you every time it starts a process if you want to enable or disable it. This will only work for the initial boot up. You’ll still have to disable it in the services menu if you don’t want to do an interactive start up each time you boot the system.
- Status:** Will not Fix.



*Specification Changes*

## **Specification Changes**

None for this revision of this specification update.



*Specification Clarification*

## **Specification Clarifications**

None for this revision of this specification update.



## **Documentation Changes**

None for this revision of this specification update.