

# Intel® Storage System SSR212CC

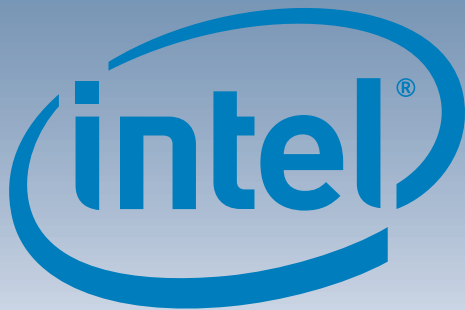
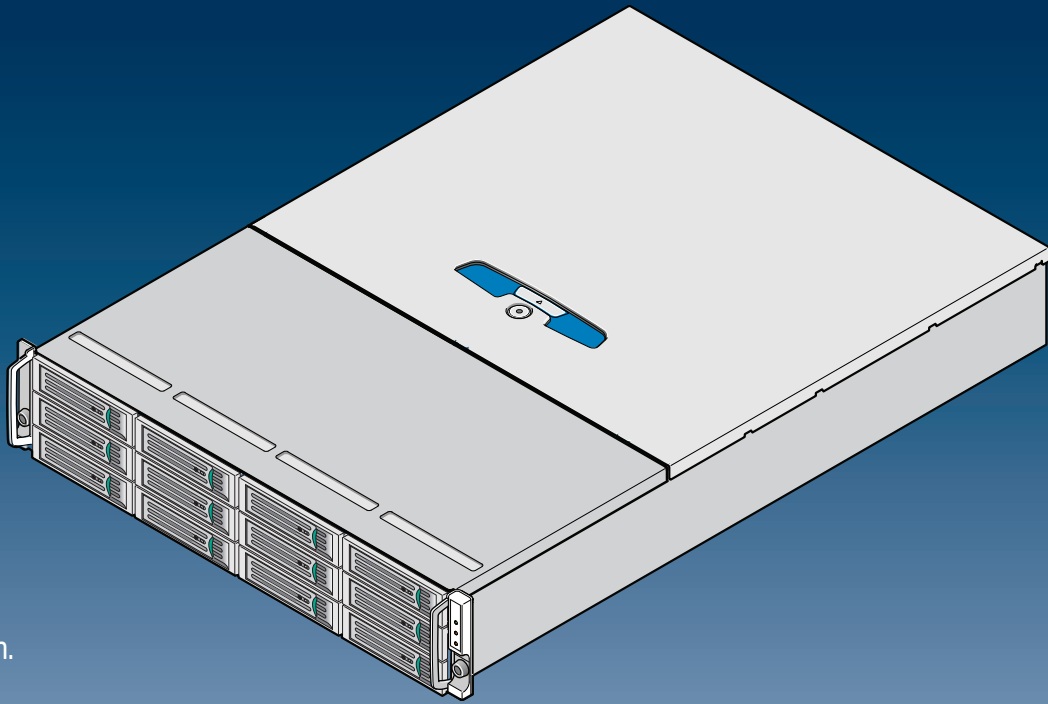
## Quick Start User's Guide

Thank you for buying an Intel® Storage System SSR212CC. This document describes how to set up the Intel® Storage System SSR212CC, turn on the system, and complete basic hardware and software configuration for the system.

This guide and other supporting documents are located on the web at <http://support.intel.com/support/motherboards/server>.

If you are not familiar with ESD (Electrostatic Discharge) procedures used during system integration, please see the *Intel® Server Board and Server Chassis Safety Information* document at <http://support.intel.com/support/motherboards/server/sb/cs-010770.htm>.

See the *Tested Hardware and Operating System List* at <http://support.intel.com/support/motherboards/server> for a list of supported hardware and operating systems.



### Warning

**Safety information:** Read all the safety and caution statements in this document before performing any of the instructions. Also, see the *Intel® Server Board and Server Chassis Safety Information* document at: <http://support.intel.com/support/motherboards/server/sb/cs-010770.htm> for complete safety information.

**Installation and service:** Installation and service of this product is to be performed only by qualified service personnel to avoid risk of injury from electrical shock or energy hazard.

**Enclosure cover:** In order to comply with applicable safety, emission, and thermal requirements, no covers should be removed and all bays must be fitted with drive carriers.

**Hazardous conditions-power supply:** Hazardous voltage, current, and energy levels are present inside the power supply enclosure. There are no user-serviceable parts inside the power supply; servicing should only be done by technically qualified personnel.

**Hazardous conditions-devices/cables:** Hazardous electrical conditions may be present on power, telephone, and communication cables. Turn off the storage system and disconnect telecommunications systems, networks, modems, and power cord before opening it. Failure to do so can result in personal injury or equipment damage.

**Power ground:** A safe electrical earth connection must be provided to the power cord. Check the grounding of the enclosure before applying power.

**Avoid injury:** Lifting the storage system chassis and attaching it to the rack is a two-person job. If needed, use an appropriate lifting device.

**Ventilation:** The equipment rack must provide sufficient airflow to the front of the storage system to maintain proper cooling. It must also include ventilation sufficient to exhaust a maximum of 1676 BTUs for a fully loaded Intel® Storage System SSR212CC.

### Caution

**Electrostatic discharge:** Observe normal Electrostatic Discharge (ESD) procedures during system integration to avoid possible damage to the server board and/or other components of the storage system.

**Storage system power:** The power connection must always be removed before disconnecting the power supply module from the storage enclosure.

**Temperature:** The operating temperature of the storage system, when installed in an equipment rack, must not go below 5°C (41°F) or rise above 35°C (95°F). Extreme fluctuations in temperature can cause a variety of problems in the storage system.

### Installation Requirements

- Minimum of two 512-MB DDR2-400 DIMMs (recommended)
- One external USB hub
- One external USB CD-ROM drive and one external USB floppy drive (for installing operating system)
- One serial ATA hard drive
- A Microsoft Windows® client PC with a floppy disk drive and CD-ROM drive

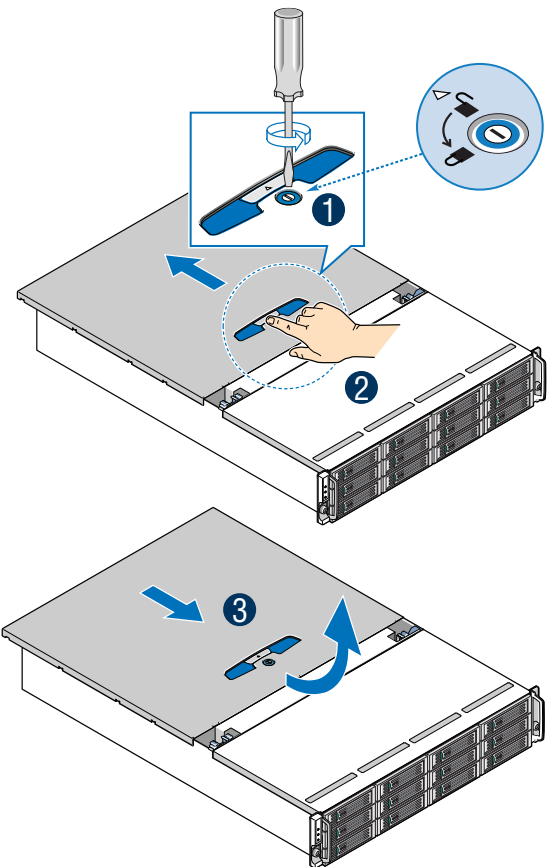
**Note:** See the *Tested Hardware and Operating System List* at <http://support.intel.com/support/motherboards/server> for a list of supported hardware and operating systems.

### Package Contents

- Intel® Storage System SSR212CC
- This document
- Rail kit
- One T10 TORX® screwdriver
- Bag of 50 Phillips® head screws for hard drives
- Resource CD
- Intel® Server Manager 8.40 software

## 6 Remove Enclosure Cover

- 1 Turn locking screw to the unlock position by aligning the notch in the cover with the unlock symbol.
- 2 Press on latch and slide enclosure cover back about one inch until it lines up with the blue zone on the fan module label.
- 3 Slide enclosure cover forward while at the same time lifting to remove enclosure cover from chassis.



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## 1 Create Disk with RAID Drivers

For Microsoft Windows® Operating System:

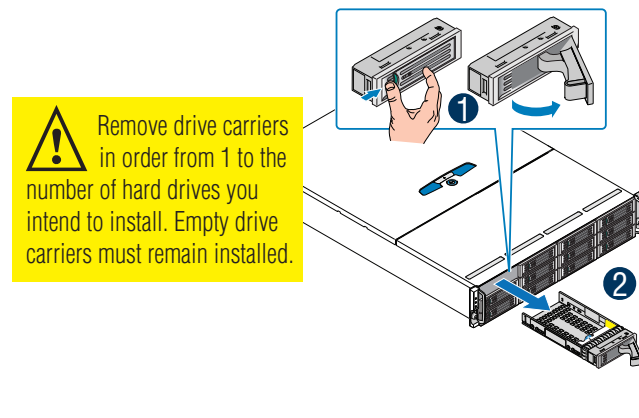
1. Insert Resource CD into CD-ROM drive of your Microsoft Windows® client PC. Insert a blank floppy disk into floppy drive of your client PC.
2. Select "Software" from the top menu.
3. Select "Microsoft Windows".
4. Select "Intel® RAID Controller SRC28X".
5. Select "Run" to save file to floppy disk.
6. Select "Next" on the Install Wizard.
7. Select "Next" to save drivers to floppy disk (A:).

For Red Hat® Linux Operating System:

Refer to the *drivers readme.txt* file on the Resource CD for instructions on creating a RAID driver disk and installing the drivers.

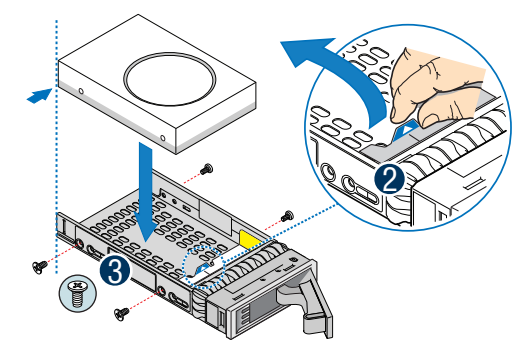
## 2 Remove Hard Drive Carriers

- 1 Release hard drive carrier from drive bay by pressing latch in handle towards drive hinge.
- 2 Once released, slide hard drive carrier out of drive bay.



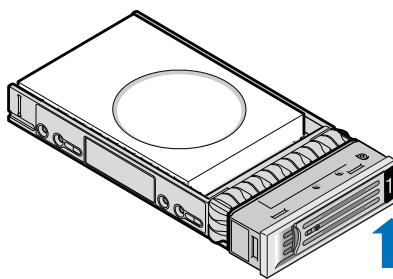
## 3 Install Hard Drives into Hard Drive Carriers

- 1 Set any jumpers and/or switches on the hard drive(s) according to the instructions that came with your hard drive(s).
- 2 Remove air baffle from inside of drive carrier.
- 3 Position the drive with circuit side facing down, connector end of drive facing rear of drive carrier, and drive aligned with back edge of drive carrier. Attach drive to carrier with four screws.



## 4 Affix Hard Drive Labels

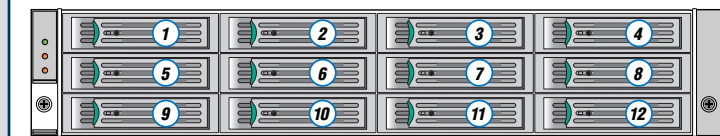
Included with the Intel® Storage System SSR212CC are labels for you to use to identify your hard drive carriers. Affix a label to each hard drive carrier that will be filled with a hard drive. See the illustration below for the recommended location to affix labels. Save unused labels for future use.



## 5 Install Hard Drive Carriers

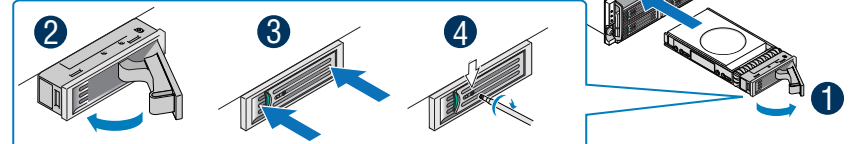
Never change the bay position of a hard drive once the storage system has been configured and appropriate RAID levels have been applied to it. If a hard drive is removed, it must be re-installed in the same hard drive bay from which it was removed. Failure to do this may cause data on the hard drive to become inaccessible.

- 1 With lever in the fully open position, slide drive carrier into chassis. Do not push on lever until lever begins to close by itself.
- 2 Once lever begins to latch, close lever to lock drive carrier into place.
- 3 Press on both sides of drive carrier to ensure that drive carrier is properly seated and connected to backplane.
- 4 Use the T10 TORX® screwdriver provided to lock hard drive carrier to chassis by turning one-half turn to the right.



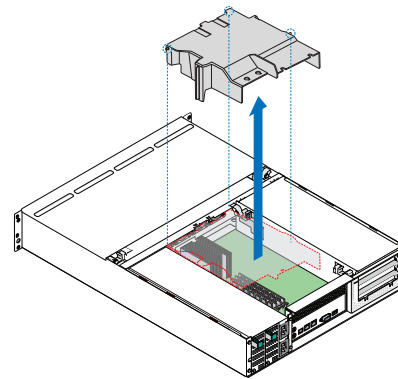
Drive carriers are numbered 1 through 12 and must be installed into the drive bay of the same number. Begin with the top row of drive bays and move left to right. Proceed to the middle row of drive bays, starting at the far left. Complete installation with the bottom row of drive bays, moving left to right.

Do not turn more than one-half turn to the right or damage could occur to the carrier locking mechanism.



## 7 Remove Processor Air Duct

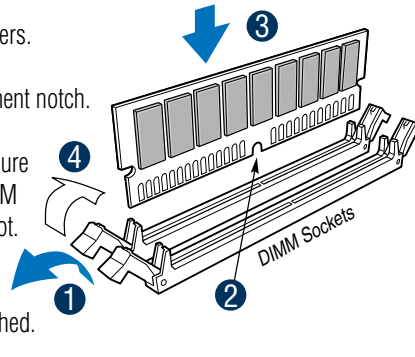
Lift the processor air duct from its location over the processor socket.



## 8 Install Memory

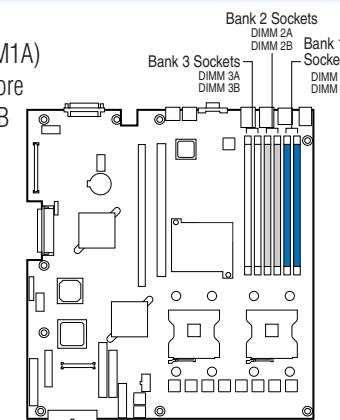
You must install the correct DIMMs to avoid possible damage to server board DIMM sockets. A minimum of two 512-MB DDR-2 400-compliant registered SDRAM 240-pin DIMMs are recommended.

- 1 Open DIMM socket levers.
- 2 Note location of alignment notch.
- 3 Insert DIMM, making sure connector edge of DIMM aligns correctly with slot.
- 4 Check that socket levers are securely latched.



Bank 1 (DIMM1B and DIMM1A) must be fully populated before populating Bank 2 (DIMM2B and DIMM2A). Memory must be populated in pairs. DIMM size, speed, and vendor must be the same within a bank. DIMM size can vary between banks.

Avoid touching gold contacts when handling or installing DIMMs. Use a grounding strap when handling DIMMs.



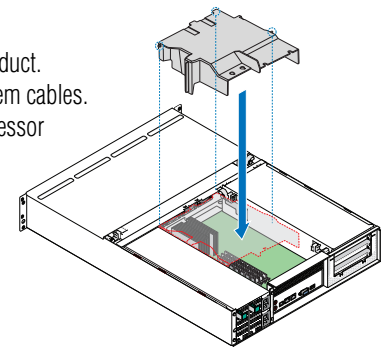
See the *Tested Memory List* at: <http://support.intel.com/support/motherboards/server> for a list of supported DIMMs.

## 9 Install PCI Card (Optional)

Refer to the *Intel® Storage System SSR212CC User Guide* for instructions on installing an optional PCI card into your storage system.

## 10 Re-install Processor Air Duct

Replace processor air duct. Do not pinch any system cables. The front edge of processor air duct should line up with corresponding holes in chassis.



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