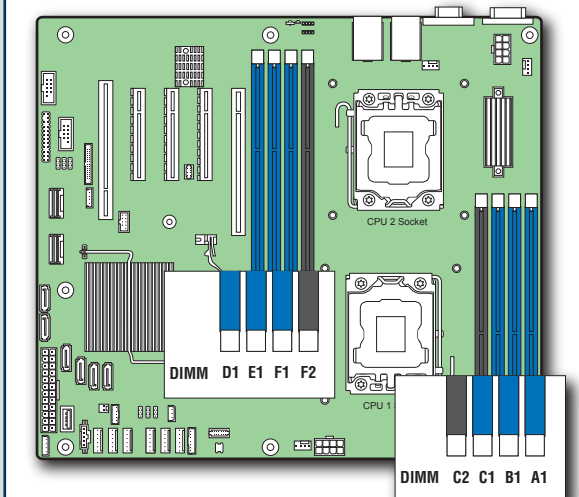


Install DIMM Memory Modules ... *continued*

Memory Configurations and Population Order:



Memory Type:
Minimum of one 1GB, DDR3
800/1066/1333/1600 MHz ECC
UDIMM/RDIMM.

Note: For additional memory
configurations, see the Technical
Product Specification for Intel®
Server Board S2400SC at:
<http://www.intel.com/support/motherboards/server>

Memory sizing and configuration is
supported only for qualified DIMMs approved by
Intel®. For a list
of supported memory, see the
tested memory list at:
<http://serverconfigurator.intel.com/default.aspx>

To Install DIMMs:

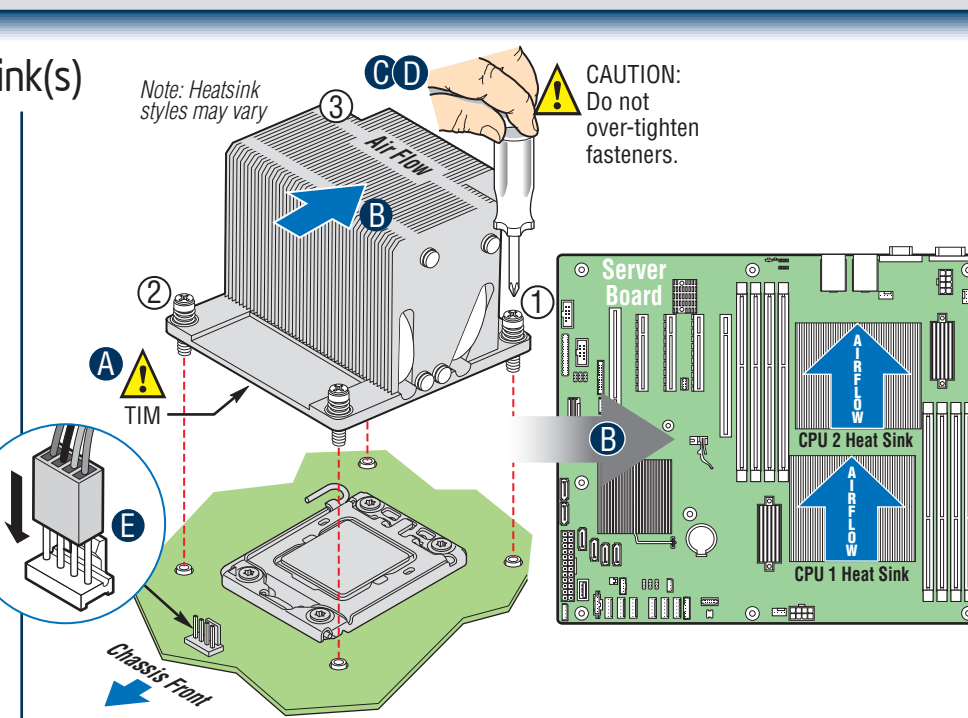
CAUTION: Avoid touching contacts when
handling or installing DIMMs.

- Open both DIMM socket levers.
- Note location of alignment notch.
- Insert DIMM making sure the connector edge of the DIMM aligns correctly with the slot.
- Push down firmly on the DIMM until it snaps into place and both levers close.
- IMPORTANT!** Visually check that each latch is fully closed and correctly engaged with each DIMM edge slot.

8 Install Heat Sink(s)

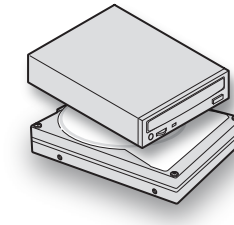
- If a protective film covers the thermal interface material (TIM) on the underside of the heatsink, remove the protective film.
- Align the heat sink fins to the front and back of the chassis for correct airflow. Airflow goes from front-to-back of chassis.

- Using a #2 Phillips® screwdriver, finger-tighten each fastener diagonally, according to the white-circled numbers.
- Securely re-tighten each fastener again in the same order as performed in Step C.
- (Optional) Please check your chassis user guide) Attach active heatsink fan power cable to server board as shown.



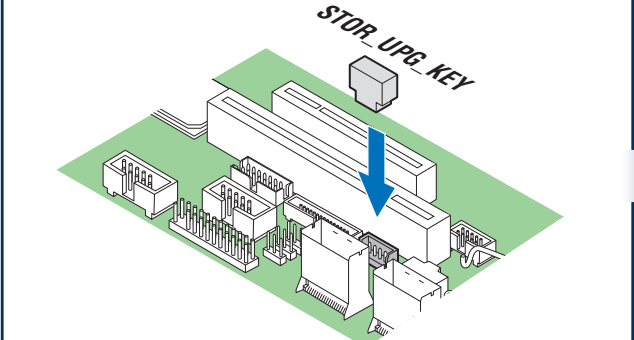
9 Install Optical Drive and HardDrive(s)

See the documentation that came with your server chassis for drive installation.



10 (Optional) Install Intel® Storage Upgrade Key

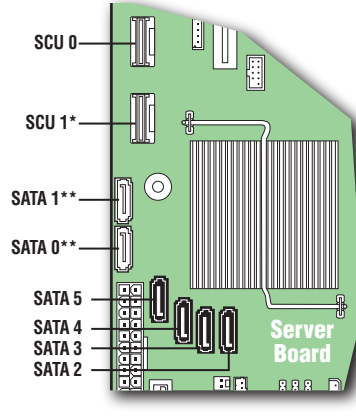
Install the Intel® Storage Upgrade Key onto a 4-pin connector on the server board labeled "STOR_UPG_KEY"



Note: The server board is capable of supporting additional chipset embedded SAS and RAID options from the SCU controller when configured with one of several available Intel® RAID C600 Upgrade Keys. See Product Specification for the various of options that different keys support.

11 Connect Hard Drives/Optical Drive to Server Board

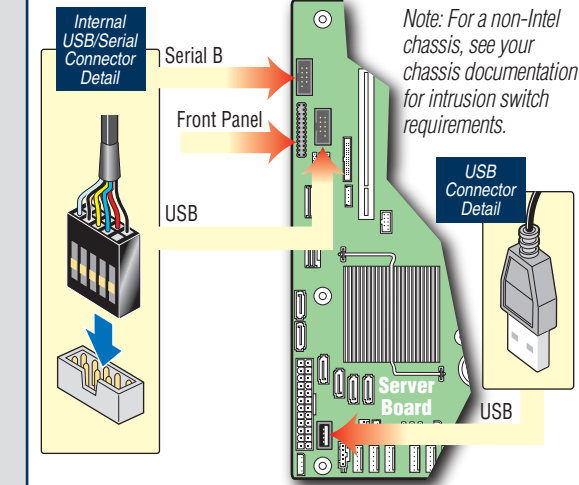
Connect SAS/SATA Data Cables to server board here.



Note:

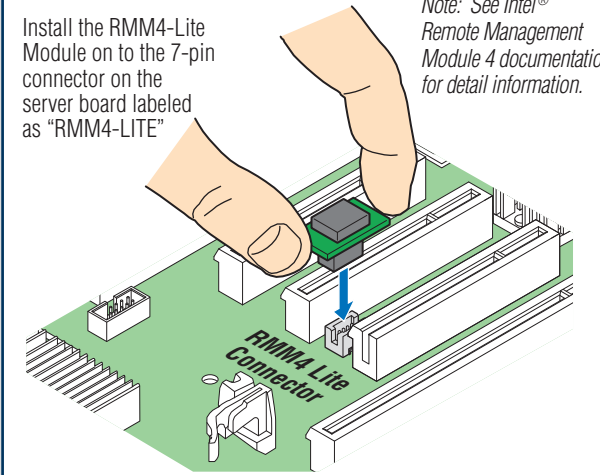
* Available with Storage Upgrade Key installed.
** 6Gb/s SATA port.

12 Attach Front Panel, Serial, and USB Connections



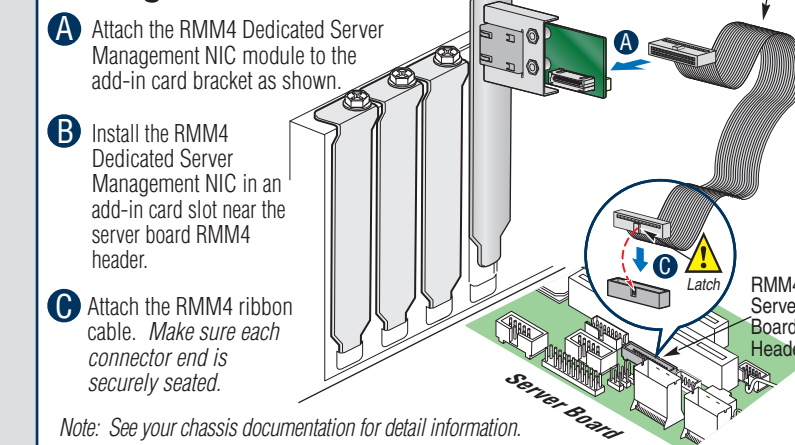
Note: For a non-Intel chassis, see your chassis documentation for intrusion switch requirements.

13a (Optional) Install Intel® Remote Management Module 4-Lite



Note: See Intel® Remote Management Module 4 documentation for detail information.

13b (Optional) Install Intel® RMM4 with Dedicated Server Management NIC

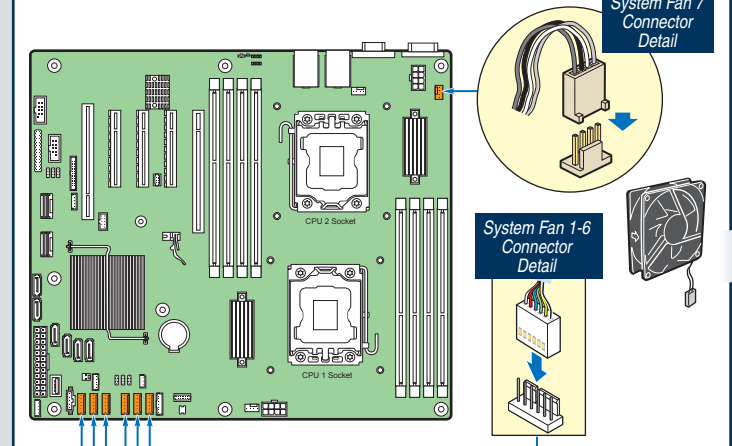


Note: See your chassis documentation for detail information.

IMPORTANT NOTE:
Return to your Intel® Server Chassis Quick Start User's Guide, or your non-Intel chassis documentation to finish installation and configuration of your Intel® Server Board S2400SC.

Return to this document to finish up, including software, BIOS, drivers and operating system installation.

14 Chassis Fan Connections



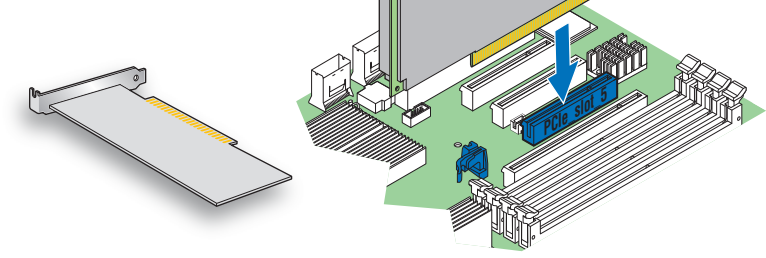
For a non-Intel server chassis, see the documentation accompanying your chassis for specific chassis fan connection requirements. Refer to the "Making Connections to the Server Board - Quick Reference" section below.

15 Install Add-in Card[s]

CAUTION: Please ensure proper card holding mechanism is used in the chassis when inserting add-in cards onto PCIe slot 5.

See the documentation that came with your server chassis for add-in card installation.

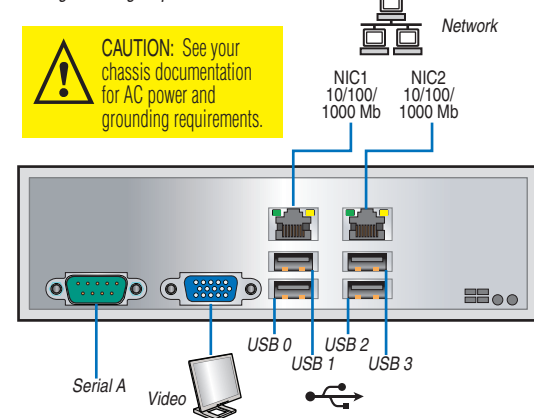
For the Intel® Server Chassis P4000 series, see the *Quick Installation User's Guide* accompanying the chassis.



16 Finishing Up

Before installing your operating system, you must finish your chassis installation, make I/O connections and plug in AC power.

See your chassis documentation for AC power and grounding requirements.



17 Software

• BIOS, Drivers, and Operating System Installation

A. Confirm BIOS Version: Look on the Server/System Management screen in the BIOS Setup Utility to determine the installed BIOS version. Compare this to the versions at:
<http://www.intel.com/support/motherboards/server>

If new versions are available, update the BIOS on your server. See the Technical Product Specification on the Intel® Server Deployment Toolkit CD for update instructions.

B. Configure your RAID Controller: Use the instructions provided with the RAID controller.

C. Install your Operating System: Use the instructions provided with the RAID controller and with the operating system.

D. Install Operating System Drivers: With the operating system running, insert the Intel® Server Deployment Toolkit CD. If using a Microsoft Windows® operating system, the Intel® Deployment Assistant will autoun and allow you to select the appropriate drivers to install. On other operating systems, browse the CD folders to locate and install the driver files.

| Available Documents | |
|---|---|
| Document/Tool | Content |
| Technical Product Specification | In-depth technical information |
| Monthly Specification Update | Technical information and issues update |
| Spares, Parts List, and Configuration Guide | Supported accessories and spares list |
| Sever Configurator Tool | Tested peripherals and operating systems list Tested memory list |
| Software and Drivers | Up-to-date firmware, driver and utility information |

Additional Reference documents available at:
<http://www.intel.com/support/motherboards/server>

Common Problems and Solutions

For a list of hardware components that have been tested with this system, see:
http://www.intel.com/p/en_US/support/server/

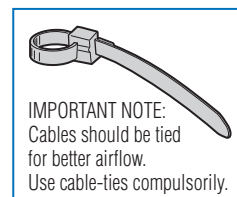
The system does not boot or show video at power-on:

- Check that all processor power connectors are plugged-in. Without these connections, the server cannot boot.
- Beep code 3 means you have bad memory; replace the faulty DDR3 DIMM(s).
- Remember, all DIMMs must be:
 - DDR3 800/1066/1333/1600-compliant, 240-pin DIMMs.
 - No mixing of DDR3 RDIMMs and UDIMMs.
 - Installed from first slot of each channel.

The system sometimes works, but is exhibiting erratic behavior.

- This is probably the result of using an underrated power supply.

Making Connections to the Server Board Quick Reference

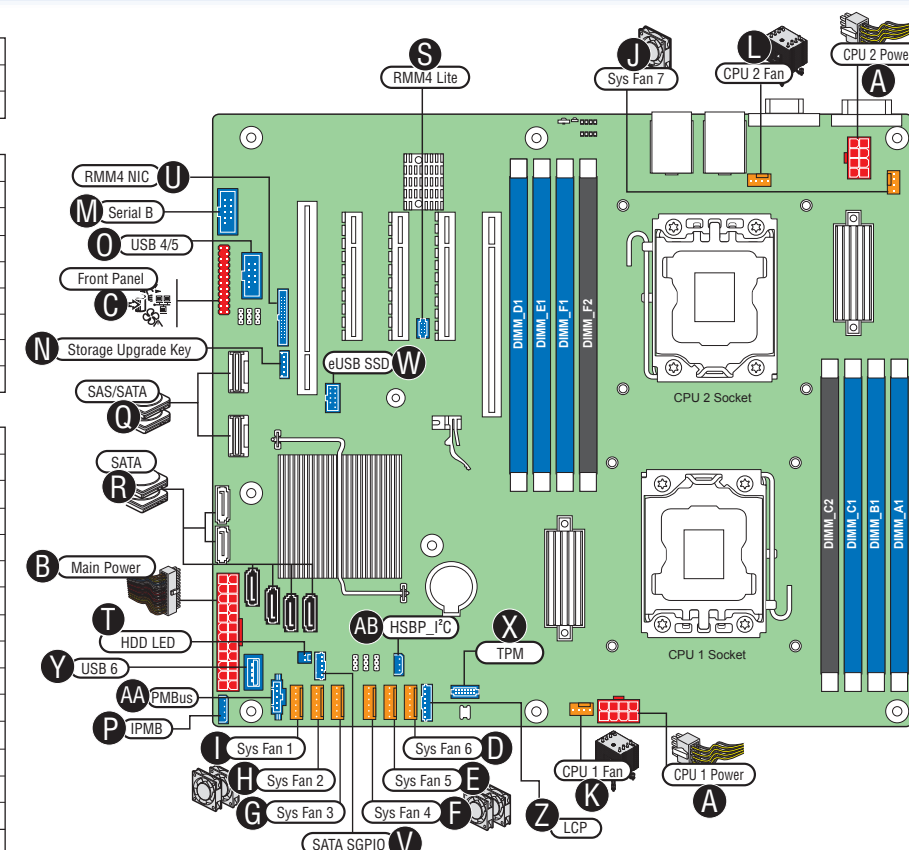


IMPORTANT NOTE:

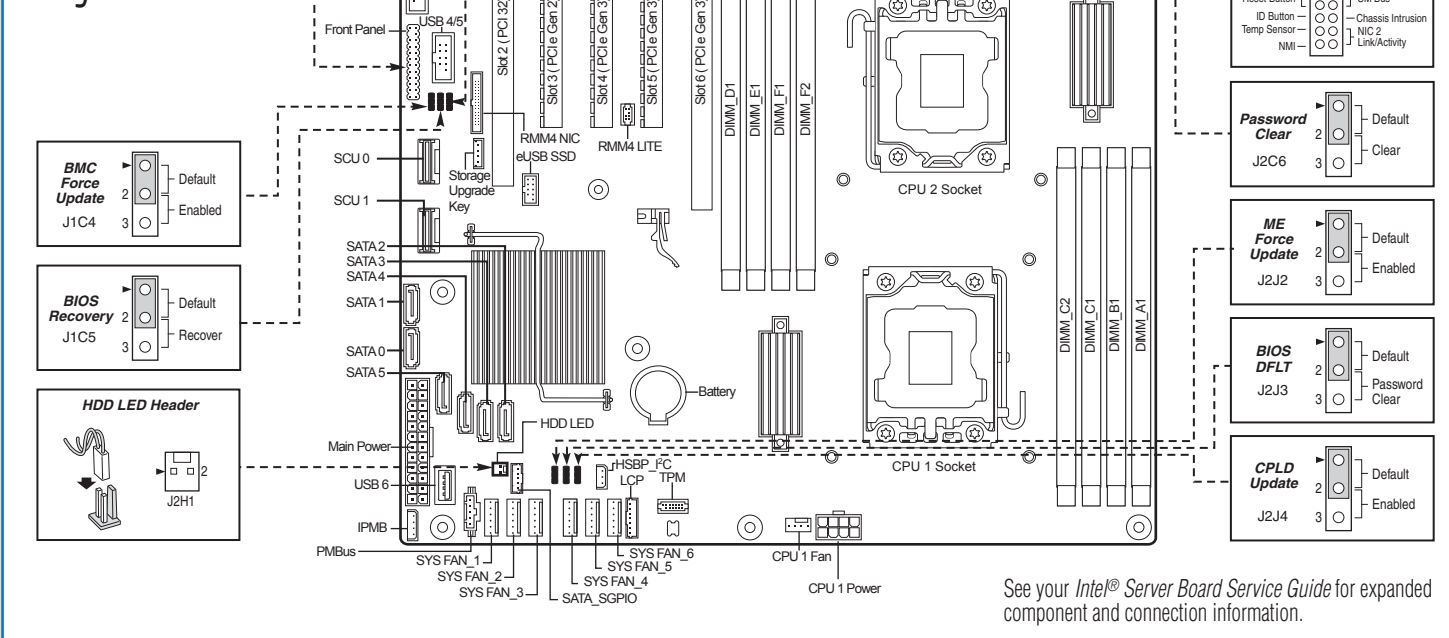
Cables should be tied for better airflow.
Use cable-ties compulsorily.

- All optional connections are not shown in this diagram. Refer to the Reference section of this *Quick Start User's Guide*, your *Intel® Server Board Service Guide*, and your server chassis documentation for additional connection information.
- For a non-Intel chassis, see your chassis documentation for server board connection information.

| Required Connections | Intel® Server Chassis P4000S | Intel® Server Chassis P4000M |
|----------------------------------|------------------------------------|------------------------------------|
| A. CPU 1-2 Power Connector | ■ | ■ |
| B. Main Power Connector | ■ | ■ |
| C. Front Panel Header | ■ | ■ |
| CPU/System Fan Connections | Intel® Server Chassis P4000S | Intel® Server Chassis P4000M |
| D. System Fan 6 Header | ■ | ■ With fixed fan only |
| E. System Fan 5 Header | ■ | ■ With hot swap fan only |
| F. System Fan 4 Header | ■ | ■ With hot swap fan only |
| G. System Fan 3 Header | ■ | ■ With hot swap fan only |
| H. System Fan 2 Header | ■ | ■ With hot swap fan only |
| I. System Fan 1 Header | ■ | ■ With hot swap fan only |
| J. System Fan 7 Header | ■ | ■ |
| K. CPU Fan 1 Header | ■ | ■ |
| L. CPU Fan 2 Header | ■ | ■ |
| Optional Connections | Intel® Server Chassis P4000S | Intel® Server Chassis P4000M |
| M. Serial B | ■ | ■ |
| N. Storage Upgrade Key(Optional) | ■ | ■ |
| O. USB 4/5 | ■ | ■ |
| P. IPMB | ■ With hot swap backplane only | ■ With hot swap backplane only |
| Q. SAS/SATA | ■ | ■ |
| R. SATA | ■ | ■ |
| S. RMM4 Lite | ■ | ■ |
| T. HDD LED | ■ | ■ |
| U. RMM4 NIC | ■ | ■ |
| V. SATA SGPIO | ■ With hot swap backplane only | ■ With hot swap backplane only |
| W. eUSB_SSD | ■ | ■ |
| X. TPM | ■ | ■ |
| Y. USB 6 | ■ | ■ |
| Z. LCP | ■ | ■ |
| AA. PMBus | ■ With redundant power supply only | ■ With redundant power supply only |
| AB. HSBP 1°C | ■ With hot swap backplane only | ■ With hot swap backplane only |



Intel® Server Board S2400SC Component Layout



See your Intel® Server Board Service Guide for expanded component and connection information.

