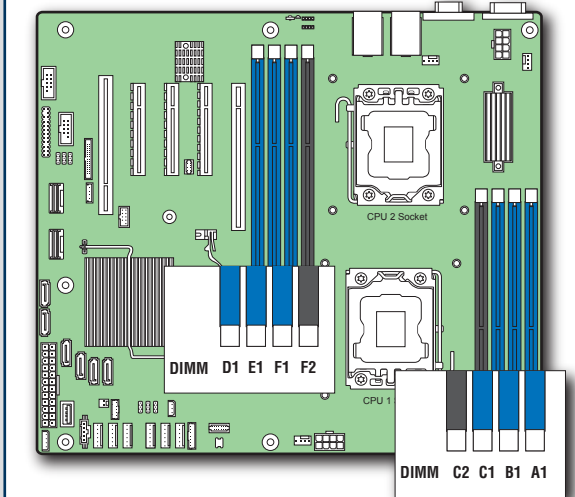


### Install DIMM Memory Modules ... continued

#### Memory Configurations and Population Order:



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

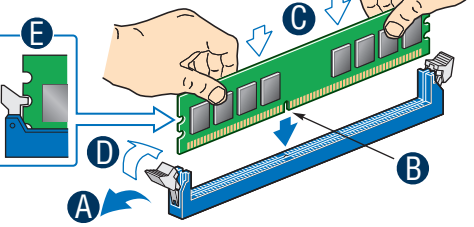
Note: For additional memory configurations, see the Technical Product Specification for Intel® Server Board S2400SC at: <http://www.intel.com/support/motherboards/server>

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:

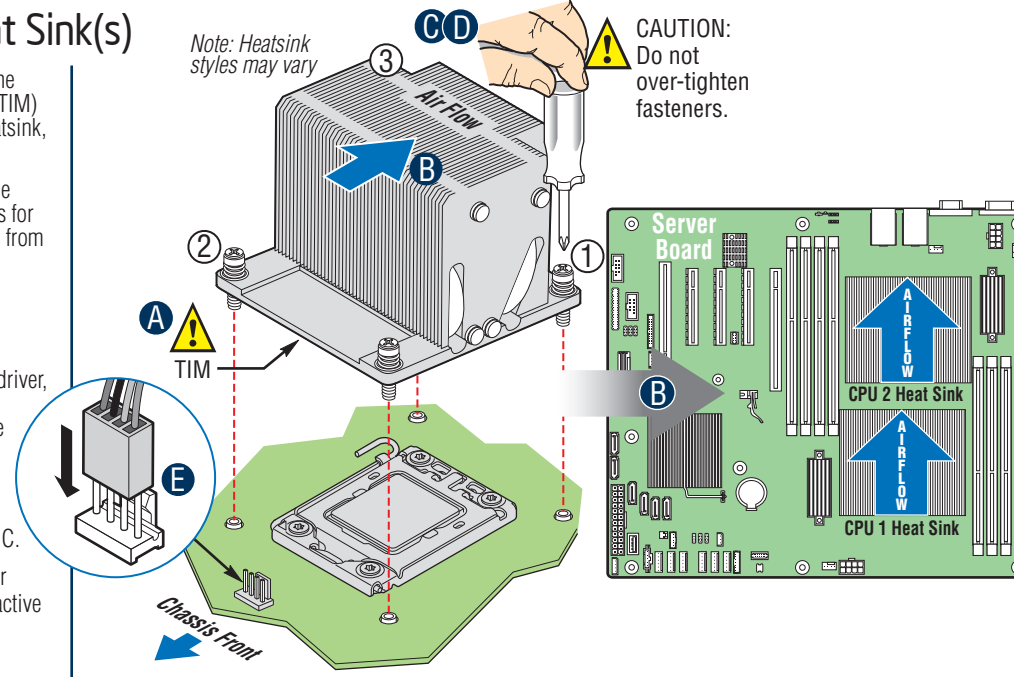
**CAUTION:** Avoid touching contacts when handling or installing DIMMs.

- 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.



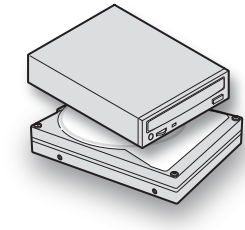
### 8 Install Heat Sink(s)

- 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.



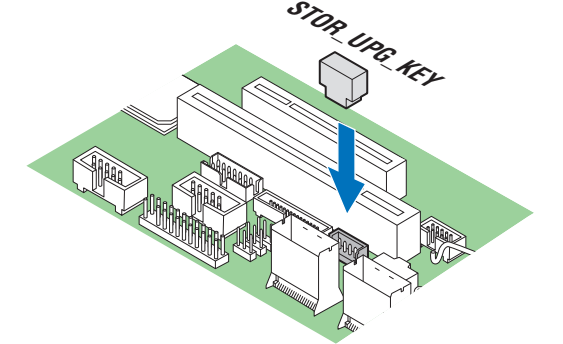
### 9 Install Optical Drive and HardDrive(s)

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



### 10 (Optional) Install Intel® Storage Upgrade Key

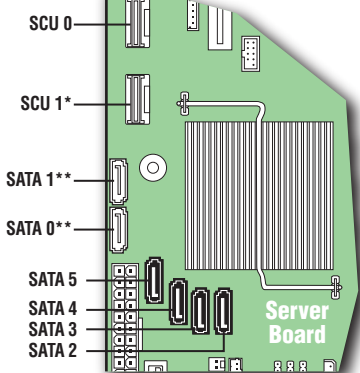
Install the Intel® Storage Upgrade Key onto a 4-pin connector on the server board labeled "STOR\_UPG\_KEY"



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.

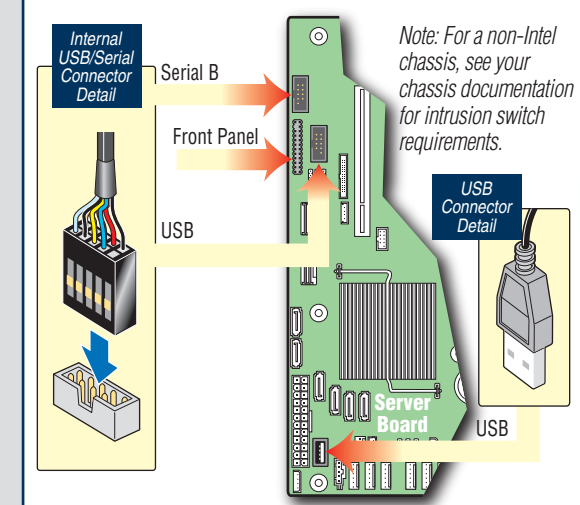
### 11 Connect Hard Drives/Optical Drive to Server Board

Connect SAS/SATA Data Cables to server board here.



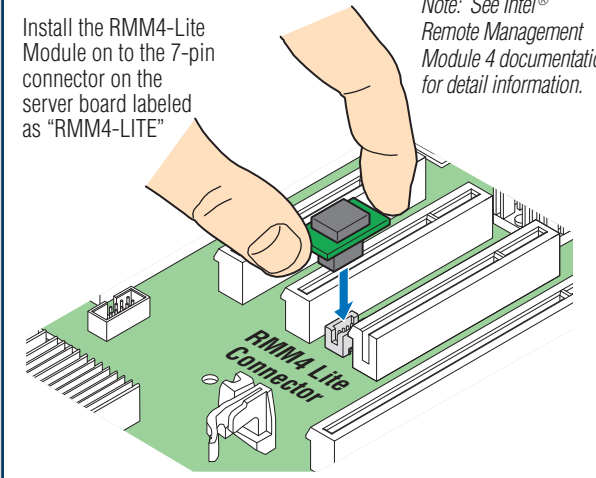
Note:  
\* Available with Storage Upgrade Key installed.  
\*\* 6Gb/s SATA port.

### 12 Attach Front Panel, Serial, and USB Connections



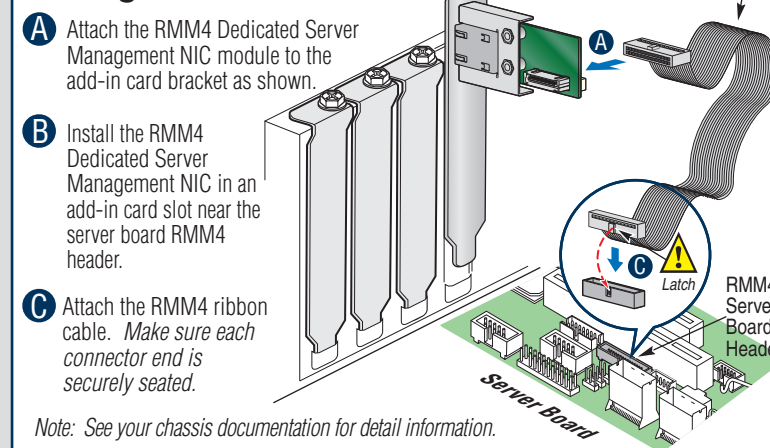
Note: For a non-Intel chassis, see your chassis documentation for intrusion switch requirements.

### 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

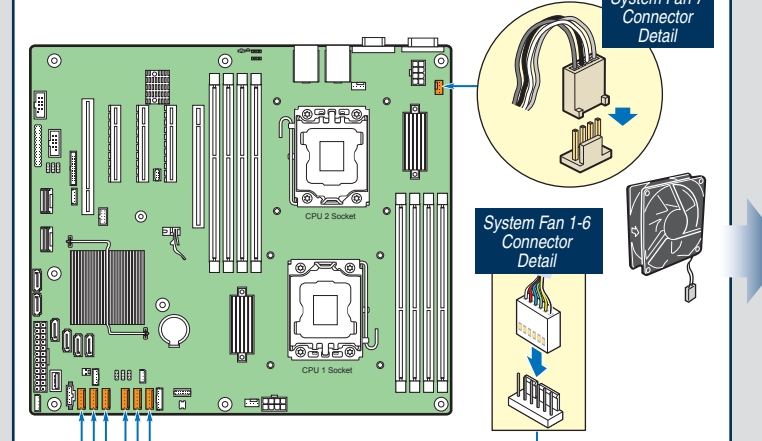


- Attach the RMM4 Dedicated Server Management NIC module to the add-in card bracket as shown.
- Install the RMM4 Dedicated Server Management NIC in an add-in card slot near the server board RMM4 header.
- Attach the RMM4 ribbon cable. Make sure each connector end is securely seated.

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



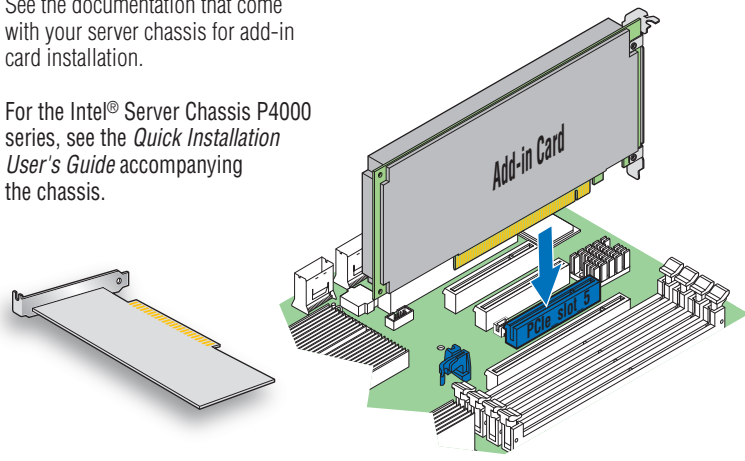
For a non-Intel server chassis, see the documentation accompanying your chassis for specific chassis fan connection requirements. Refer to the "Making Connections to the Server Board - Quick Reference" section below.

### 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.

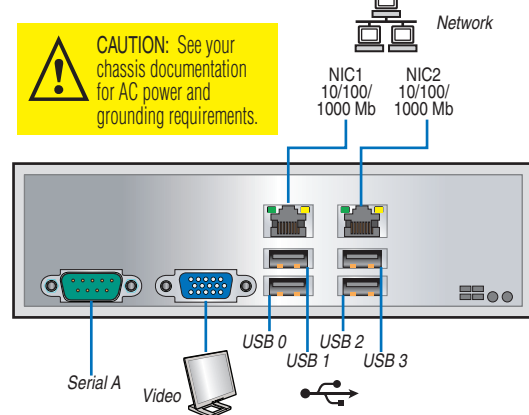
See the documentation that come with your server chassis for add-in card installation.

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.



**CAUTION:** See your chassis documentation for AC power and grounding requirements.

### 17 Software

• BIOS, Drivers, and Operating System Installation

- 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.
- Configure your RAID Controller:** Use the instructions provided with the RAID controller and with the operating system.
- Install your Operating System:** Use the instructions provided with the RAID controller and with the operating system.
- 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.

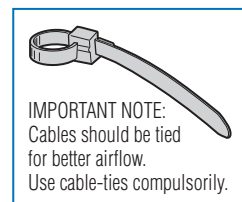
Available Documents	
Document/Tool	Content
Technical Product Specification	In-depth technical information
Monthly Specification Update	Technical information and issues update
Spares, Parts List, and Configuration Guide	Supported accessories and spares list
Server Configurator Tool	Tested peripherals 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/en\\_US/support/server/](http://www.intel.com/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.

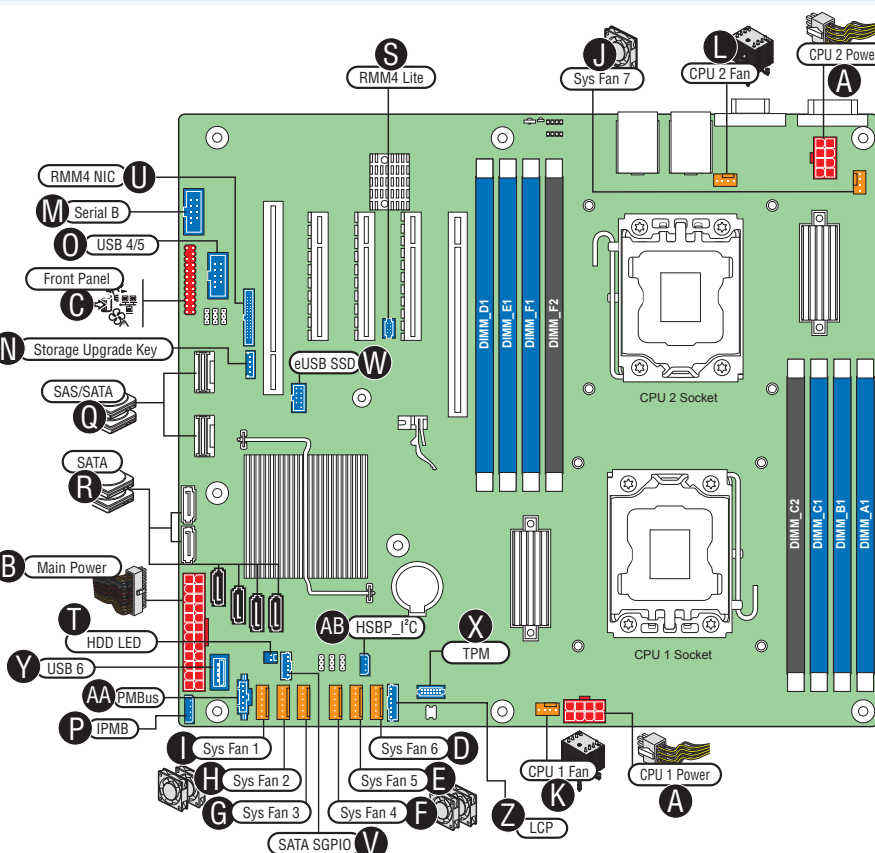
### Making Connections to the Server Board Quick Reference



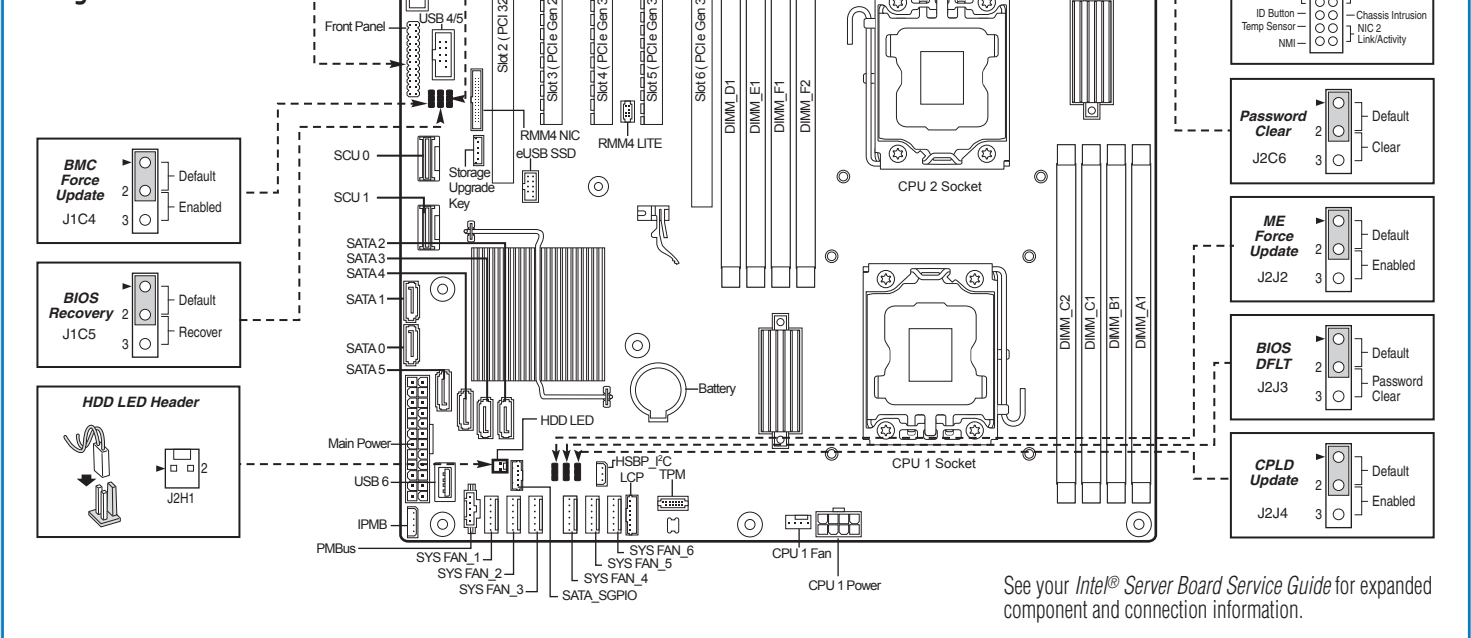
**IMPORTANT NOTE:** Cables should be tied for better airflow. Use cable-ties compulsorily.

Notes:  
1. 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.  
2. 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.

