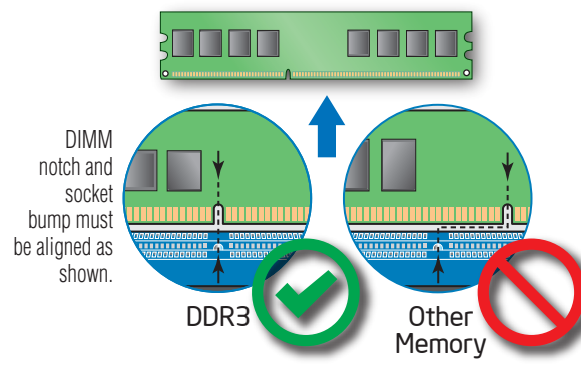


## 7 Install DIMM Memory Modules

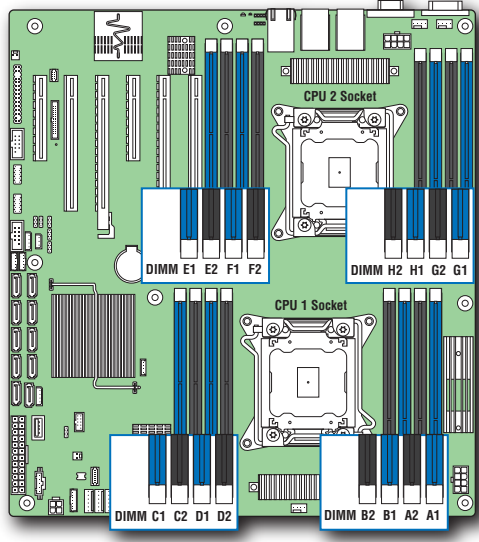
### DDR3 DIMM Memory Identification:

**CAUTION:** Observe normal ESD (ElectroStatic Discharge) procedures to avoid possible damage to system components.

This server board supports up to 16 DDR3 1066/1333/1600 MHz ECC UDIMM/RDIMM/LRDIMM.



### Memory Configurations and Population Order:



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

Note: For additional memory configurations, see the Technical Product Specification for Intel® Server Board S2600C0 at: <http://www.intel.com/support/motherboards/server>.

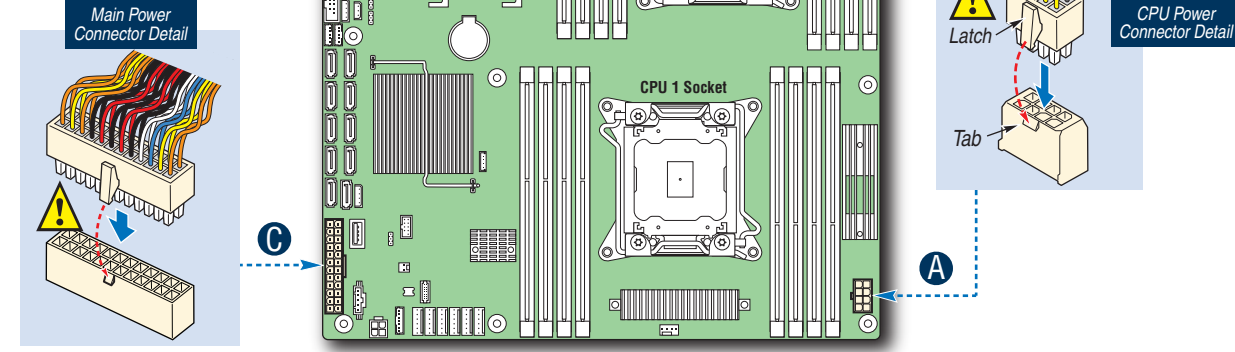
Memory sizing and configuration is supported only for qualified DIMMs approved by Intel®. For a list of supported memory, see the tested memory list at <http://serverconfigurator.intel.com/default.aspx>

## 8 Make Server Board Power Connections

- A Attach the CPU 1 power connector.
- B Attach the CPU 2 power connector.
- C Attach the main power connector.

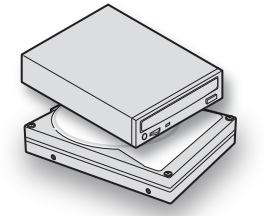
**CAUTION:** Note the location of the latch on each power cable connector and align it with the matching tab on each server board socket.

**IMPORTANT NOTE:** If you are using a non-Intel server chassis with an ATX power supply, see the documentation that came with your chassis for installation information.



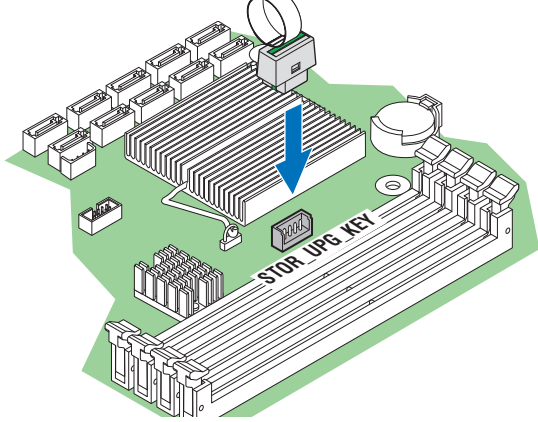
## 9 Install Optical Drive and Hard Drive(s)

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



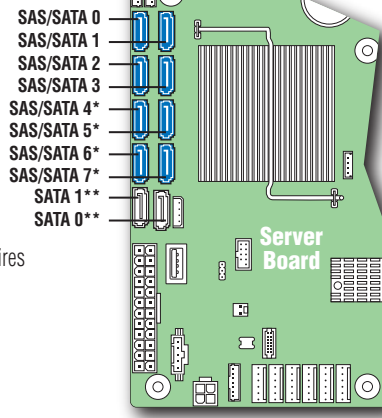
## 10 Install Intel® RAID C600 Upgrade Key (Optional)

Locate the white-colored four-pin key header near DIMM\_C1 slot. Match the Key and connector orientation and press down to install.



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

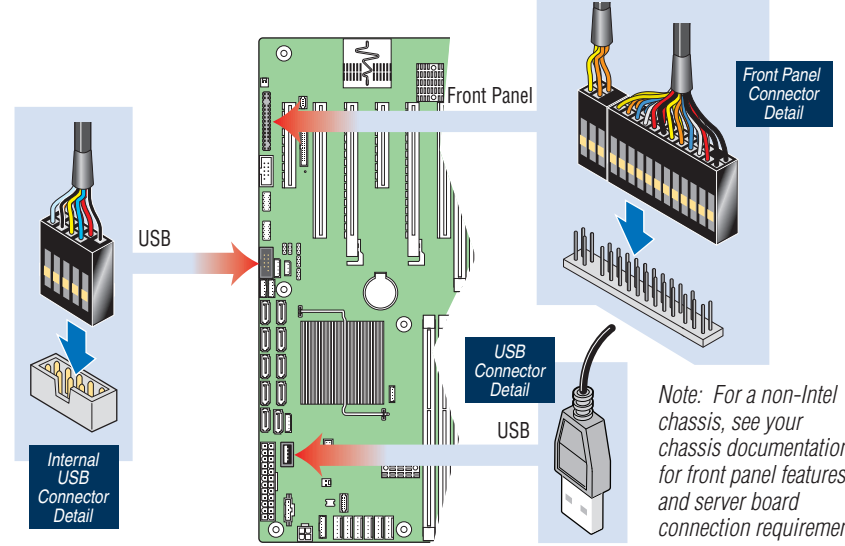
Connect SAS/SATA Data Cables to server board here.



**NOTE:**

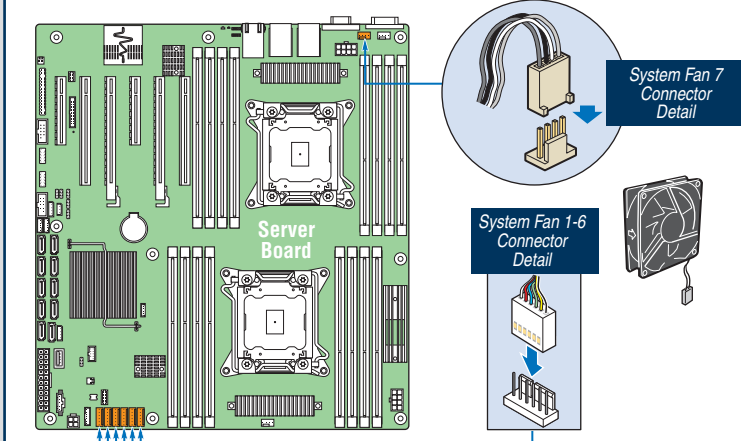
\* SATA/SAS functionality on ports 0-7 requires purchase of an optional Intel® RAID C600 Upgrade Key.  
\*\* 6Gb/s SATA port.

## 12 Attach Front Panel, and USB Connections



Note: For a non-Intel chassis, see your chassis documentation for front panel features and server board connection requirements.

## 13 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.

## 14 Install Optional Components

Follow the Intel® Trusted Platform Module Hardware User's Guide to install the TPM module.

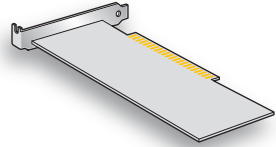
Follow Intel® Remote Management Module 4 User Guide to install RMM4 modules.

Follow the instructions come along with the eUSB SSD device to install eUSB SSD.

## 15 Install Add-in Card[s]

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

For the Intel® Server Chassis P4000M series, see the Quick Installation User's Guide accompanying the chassis.

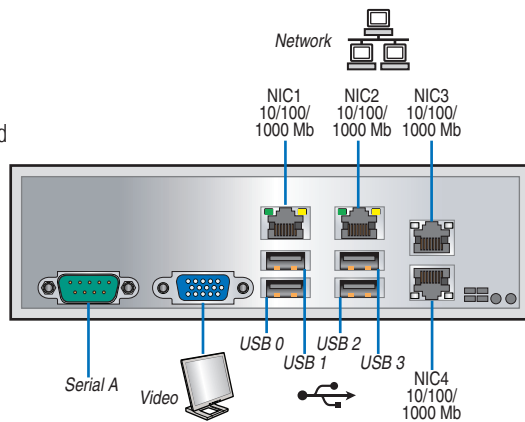


## 16 Finishing Up

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

**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.

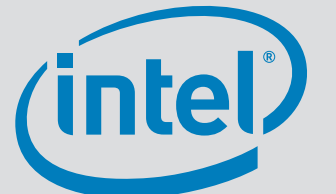
**D. Install Operating System Drivers:** With the operating system running, insert the Intel® Server Deployment Toolkit CD. If using a Microsoft Windows® operating system, the Intel® Deployment Assistant will autorun and allow you to select the appropriate drivers to install. On other operating systems,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

## Common Problems and Solutions

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

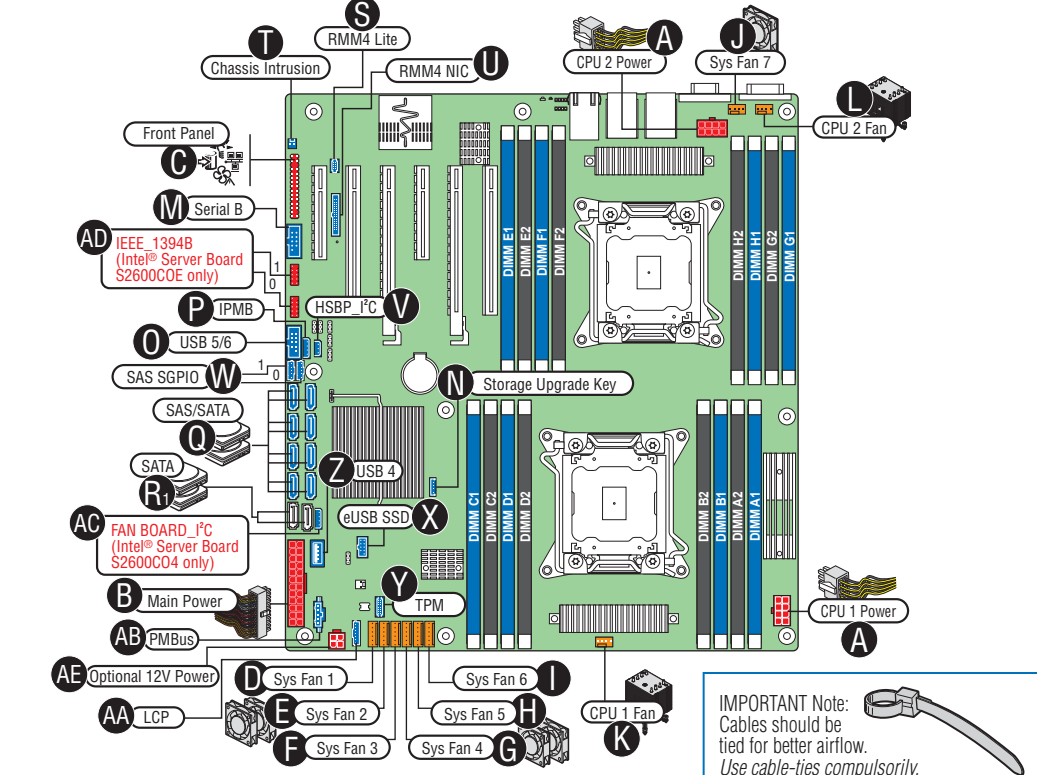
The system does not boot or show video at power-on.

- Check that the +12V CPU power connector is plugged in. Without this cable, the processors will not have any power.
- Only Intel® Xeon® Processor E5-2600 series with 135 W and less Thermal Design Power (TDP) are supported on S2600C04. Previous generation Intel® Xeon® processors are not supported.
- Only Intel® Xeon® Processor E5-2600 series with 150 W and less Thermal Design Power (TDP) are supported on S2600C0E. Previous generation Intel® Xeon® processors are not supported.
- Beep code 1-5-2-1 in a system means you do not have Intel® Xeon® Processor E5-2600 series installed.
- The system generates the memory error beep code and POST diagnostic LED message (0X0E-0XEF) that indicates memory errors in early POST.
- Remember, all DIMMs must be:
  - DDR3 800/1066/1333/1600 MHz ECC UDIMM/RDIMM/LRDIMM.
  - From the same manufacturer.
  - Installed beginning with DIMM A1.



## Making Connections to the Server Board — Quick Reference

Required Connections		Intel® Server Chassis P4000M series
A. CPU 1-2 Power Connector		■
B. Main Power Connector		■
C. Front Panel Header		■
■ = Make this connection		
Optional Connections		Intel® Server Chassis P4000M series
D. System Fan 1 Header		■
E. System Fan 2 Header		■
F. System Fan 3 Header		■
G. System Fan 4 Header		■
H. System Fan 5 Header		■
I. System Fan 6 Header		■
J. System Fan 7 Header		■
K. CPU 1 Fan Header		▲
L. CPU 2 Fan Header		▲
M. Serial B		▲
N. Storage Upgrade Key		▲
O. USB 5/6 (Front Panel)		▲
P. IPMB		▲
Q. SAS/SATA Connectors		▲
R. SATA 6G		▲
S. RMM4 Lite		▲
T. Chassis Intrusion		▲
U. RMM4 NIC		▲
V. HSBP_iFC		▲
W. SAS SGPIO		▲
X. eUSB SSD		▲
Y. TPM		▲
Z. USB 4 (Type A)		▲
AA. LCP		▲
AB. PMBus		▲
AC. FAN BOARD_iFC		▲
AD. IEEE_1394B		▲
AE. Optional 12V Power		▲

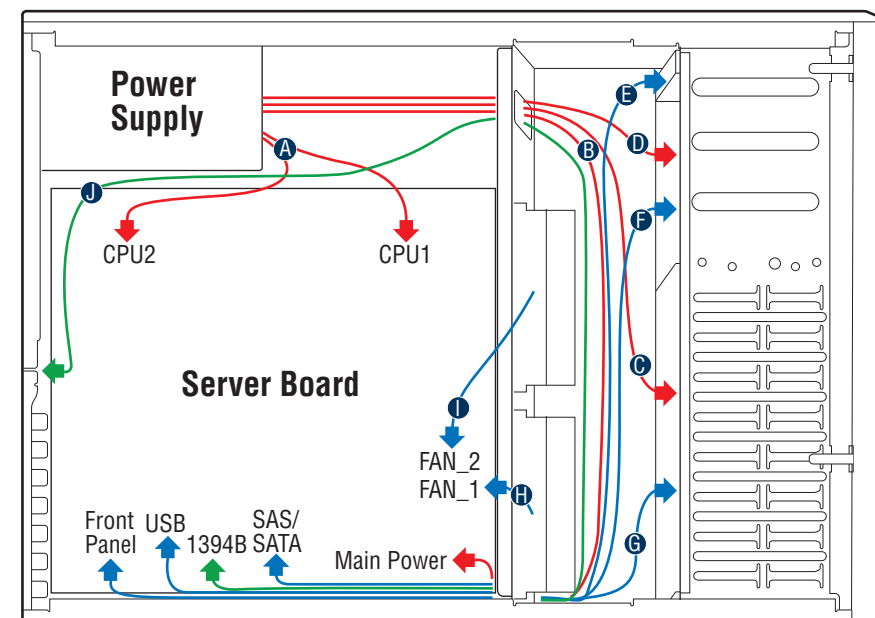


■ = Make this connection to the P4000M series chassis with fixed system fan configuration.  
▲ = Make this connection to the P4000M series chassis with hotswap fans, backplane(s), power supply(s)  
▲ = Make this connection when applicable

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

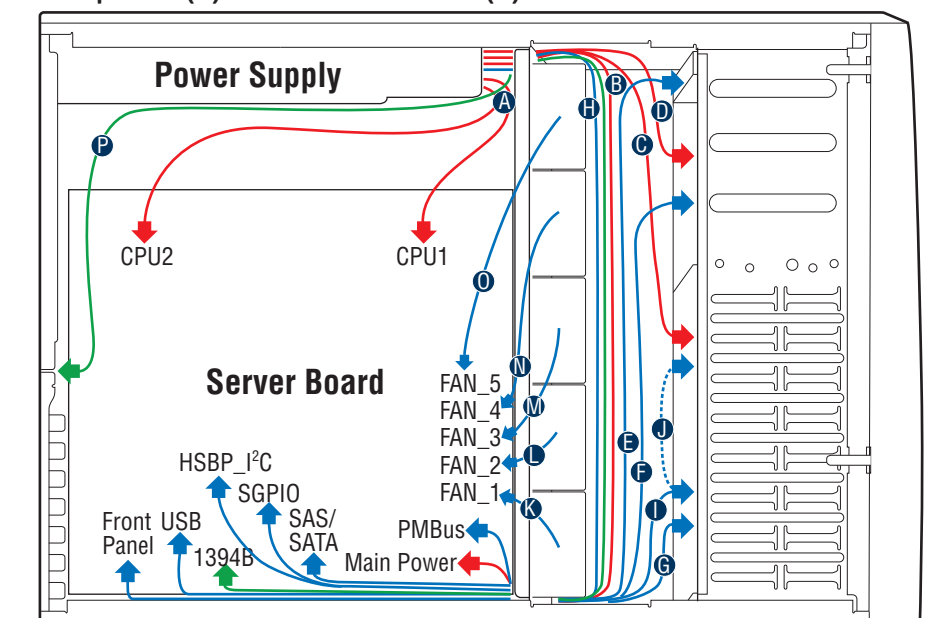
Note: For a non-Intel Chassis, see your chassis documentation for server board connection information.  
Note: All optional connections are not shown in this diagram. Refer to your Server Board Service Guide, and your server chassis documentation for additional connection information.

## Cable Routing in Intel® Server Chassis P4000M series with Fixed Fans, Fixed HDDs, Fixed PSU



Description	Description
A. CPU1/CPU2 Power Cable	G. Fixed HDD Data Cable
B. Server Board Main Power Cable (Power extend cable is needed)	H. System FAN 1
C. Backplane Power Cable	I. System FAN 2
D. ODD Power Cable	J. IEEE_1394B cable (Optional, Connect to RMM4/IEEE_1394B connector on P4000M chassis back panel)
E. Front Panel Cable, USB Cable	
F. ODD Data Cable (Connect To White SATA 6G Connectors On Server Board)	

## Cable Routing in Intel® Server Chassis P4000M series with Hotswap Fans, backplane(s), redundant PSU(s)



Description	Description
A. CPU1/CPU2 Power Cable	I. HSBP_iFC Cable (5pin to 3pin, provide connection from hot-swap back plane to server board)
B. Server Board Main Power Cable (Power extend cable is needed)	J. HSBP_iFC Cable (5pin to 5pin, only for the chassis with 2 hot-swap back plane cascade)
C. Backplane Power Cable	K. System FAN 1
D. ODD Power Cable	L. System FAN 2
E. Front Panel Cable, USB Cable	M. System FAN 3
F. ODD Data Cable (Connect To White SATA 6G Connectors On Server Board)	N. System FAN 4
G. Hotswap HDD Data Cable and SGPIO	O. System FAN 5
H. PMBus Cable	P. IEEE_1394B cable (Optional, Connect to RMM4/IEEE_1394B connector on P4000M chassis back panel)