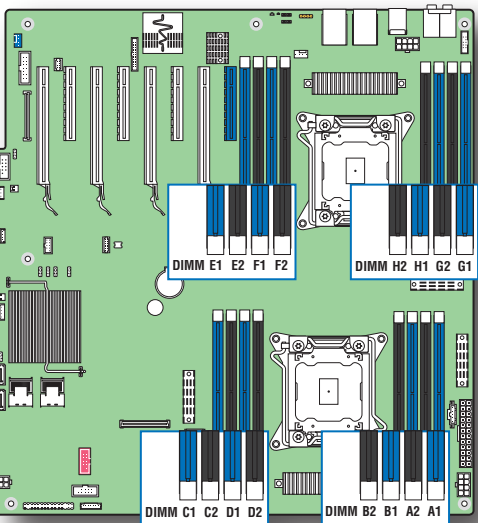


Install DIMM Memory Modules ... *continued*

Memory Configurations and Population Order:



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

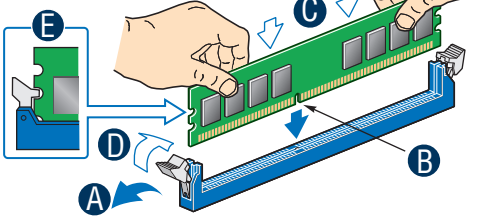
NOTE: For additional memory configurations, see the Technical Product Specification for Intel® Server Board S2600IP or Intel® Workstation Board W2600CR at: <http://www.intel.com/support/motherboards/server>.

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.

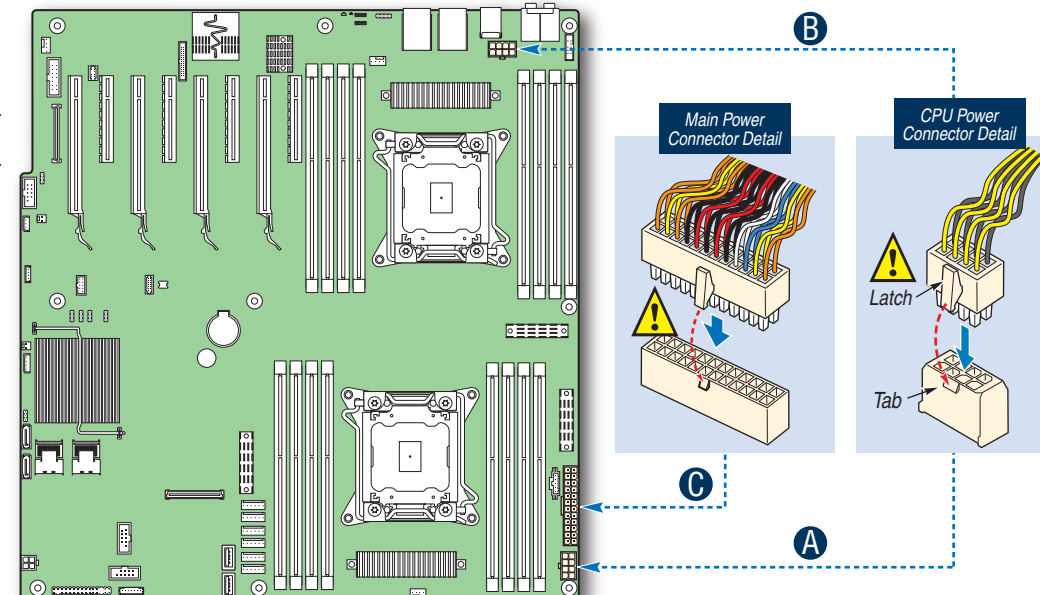


8 Make Server Board Power Connections

- Attach the CPU 1 power connector.
- Attach the CPU 2 power connector.
- Attach the main power connector.

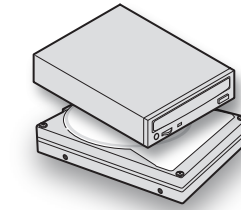
CAUTION: Note the location of the latch on each power cable connector and align it with the matching tab on each server board socket.

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.



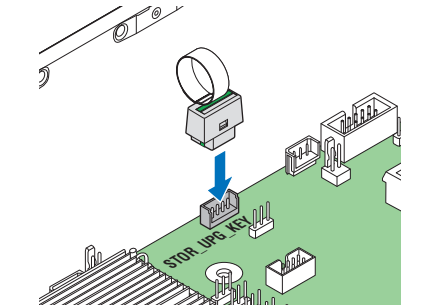
9 Install Optical Drive and Hard Drive(s)

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



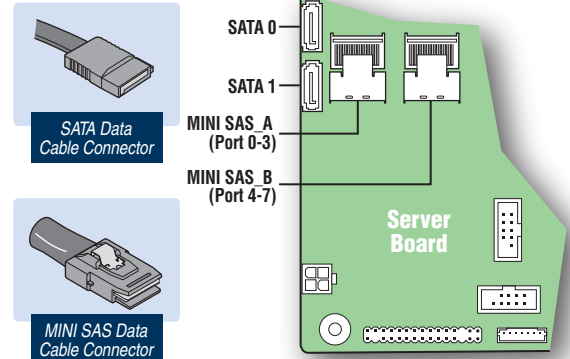
10 Install Intel® RAID C600 Upgrade Key (Optional)

Match the Key and connector orientation and press down to install.



11 Connect Hard Drives/Optical Drive to Server Board

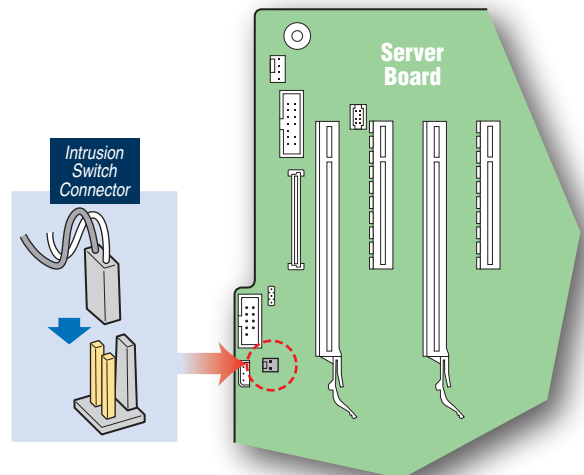
Connect SAS/SATA Data Cables to server board here.



NOTE: SATA/SAS functionality on ports 0-7 requires purchase of an optional Intel® RAID C600 Upgrade Key. Please refer to RAID Quick Reference guide (G46033-003) in package for list of optional keys.

12 Attach Intrusion Switch Cable

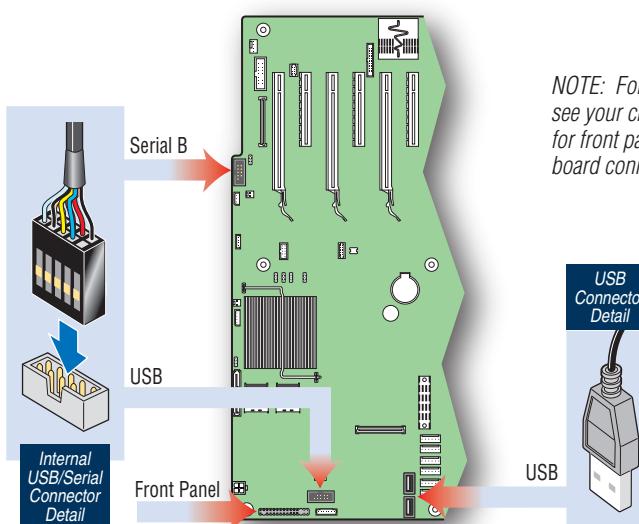
Attach Intrusion Switch Cable



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

13 Attach Front Panel, Serial, and USB Connections

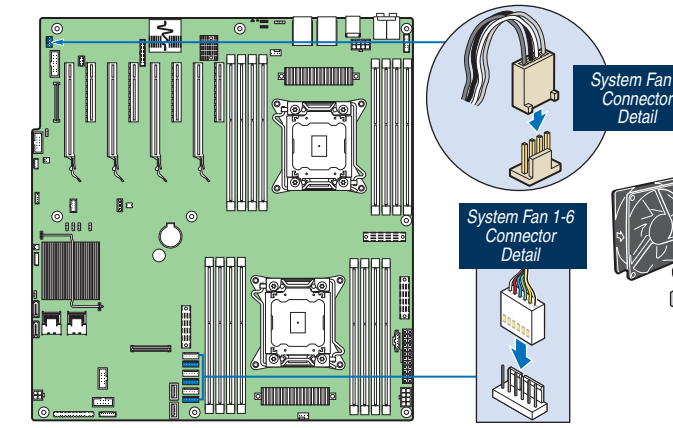
Attach Front Panel, Serial, and USB Connections



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

14 Chassis Fan Connections

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]

Install Add-in Card[s]

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

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

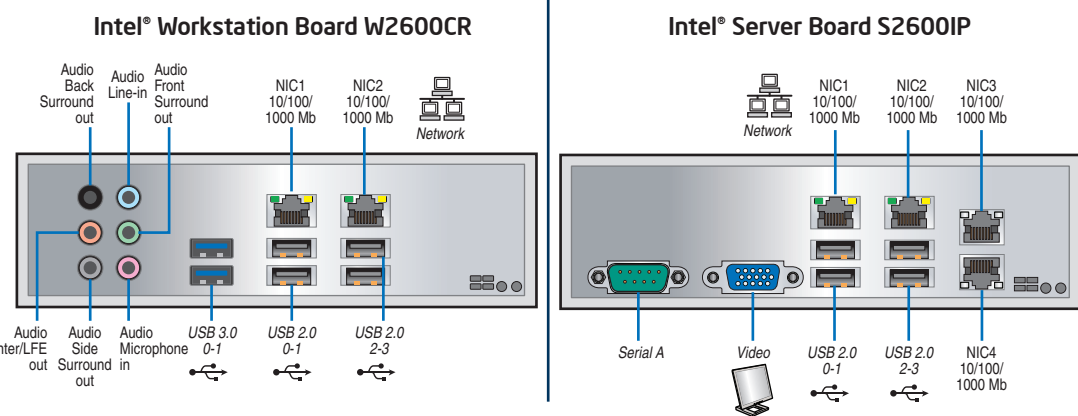
16 Finishing Up

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

Software • BIOS, Drivers, and Operating System Installation

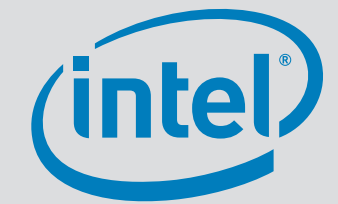
- Confirm BIOS Version:** Look on the Server/System Management screen in the BIOS Setup Utility to determine the installed BIOS version. Compare this to the versions at: <http://www.intel.com/support/motherboards/server>. If new versions are available, update the BIOS on your server. See the Technical Product Specification on the Intel® Server Deployment Toolkit CD for update instructions.
- Configure your RAID Controller:** Use the instructions provided with the RAID controller.
- 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 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

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

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

- Check that the +12V CPU power connector is plugged in. Without this cable, the processors will not have any power.
- Intel® Xeon® Processor E5-2600 series with 135 W and less Thermal Design Power (TDP) are supported on Intel® Server Board S2600IP.
- Intel® Xeon® Processor E5-2600 series with 150 W and less Thermal Design Power (TDP) are supported on Intel® Workstation Board W2600CR.
- 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 (0XE0-0XEF) that indicates memory errors in early POST.
- Remember, all DIMMs must be:
 - DDR3 800/1066/1333/1600 MHz 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 P4000 series	
A. CPU 1-2 Power Connector	■		
B. Main Power Connector	■		
C. Front Panel Header	■		
■ = Make this connection			
Optional Connections		Intel® Server Chassis P4000 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. Internal Video (W2600CR only)	■	▲	▲
N. I/O Module (Not available for S2600IP4L and W2600CR2L)	■	▲	▲
O. Serial B	■	▲	▲
P. HSBP_iFC	■	▲	▲
Q. Storage Upgrade Key	■	▲	▲
R. S/PDIF (W2600CR only)	■	▲	▲
S. HDD LED	■	▲	▲
T. IPMB	■	▲	▲
U. SATA Connectors	■	▲	▲
V. MINI SAS Connectors	■	▲	▲
W. 4Pin Power	■	▲	▲
X. Front Panel USB	■	▲	▲
Y. LCP	■	▲	▲
Z. Chassis Intrusion	■	▲	▲
AA. eUSB SSD	■	▲	▲
AB. TPM	■	▲	▲
AC. ROC Module	■	▲	▲
AD. 1394B (W2600CR only)	■	▲	▲

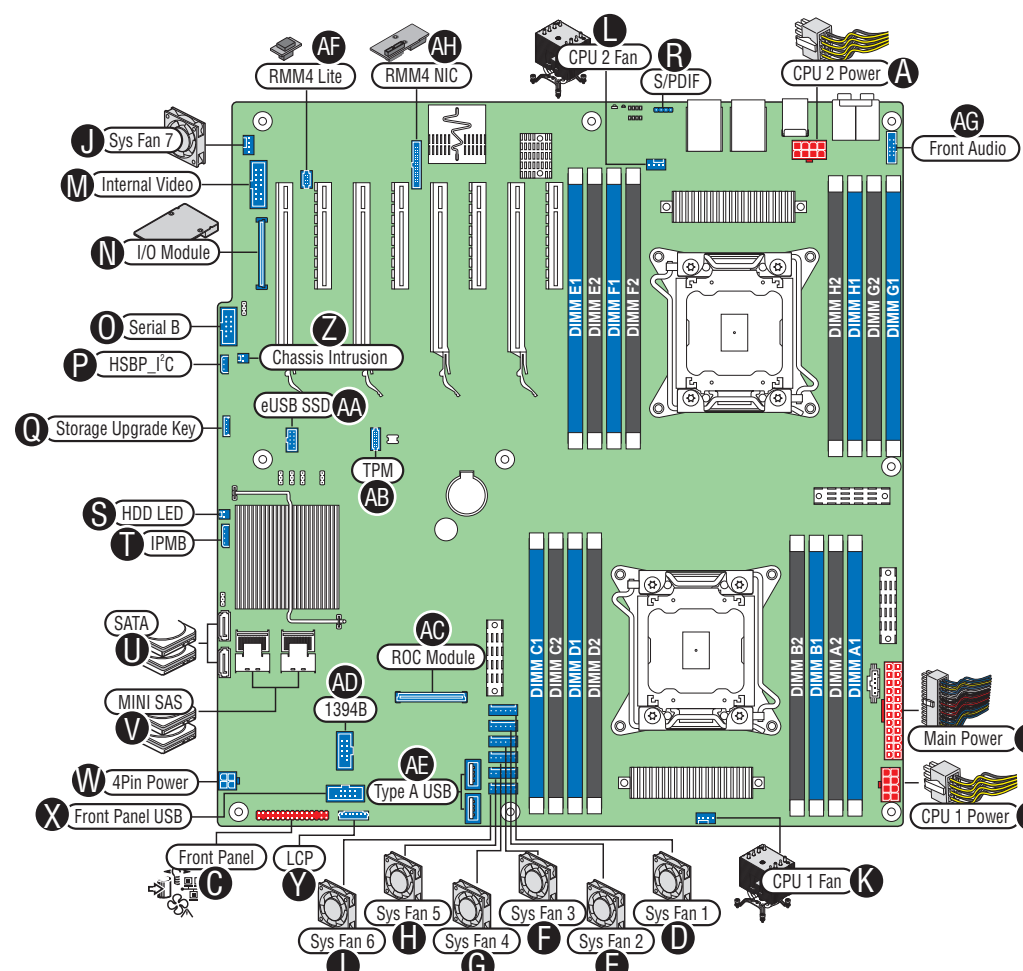
AE. Type A USB	▲	▲
AF. RMM4 Lite	▲	▲
AG. Front Audio (W2600CR only)	▲	▲
AH. RMM4 NIC	▲	▲

■ = Make this connection to P4000L Workstation System
 ■ = Make this connection to P4000L Server System
 ▲ = Make this connection when applicable

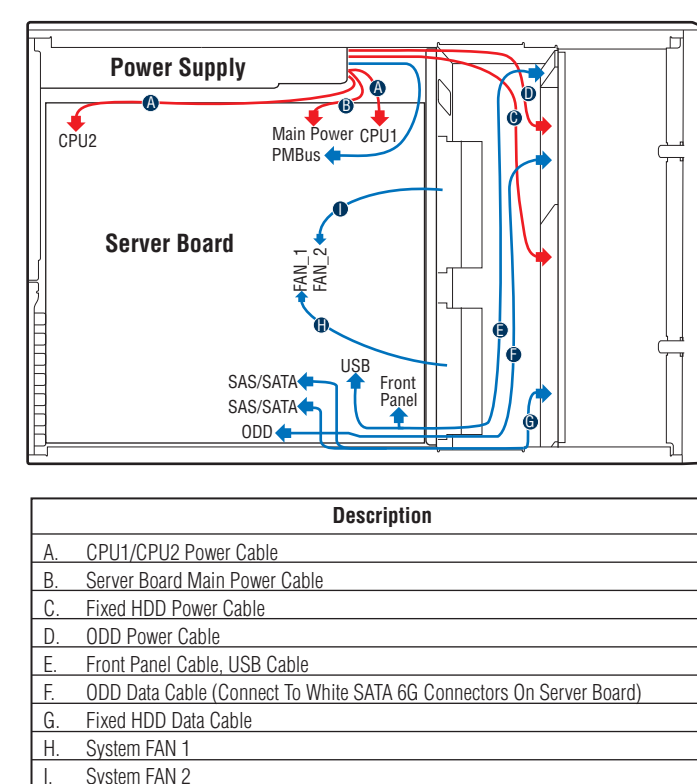
NOTE: For a non-Intel Chassis, see your chassis documentation for server board connection information.

NOTE: Not all optional connections are shown in this diagram. Refer to your Server Board Service Guide, and your server chassis documentation for additional connection information.

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

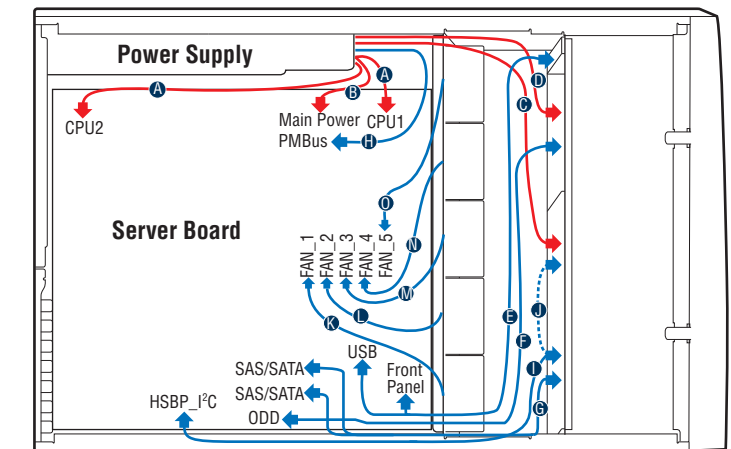


Cable Routing Diagram



Description
A. CPU1/CPU2 Power Cable
B. Server Board Main Power Cable
C. Backplane Power Cable
D. ODD Power Cable
E. Front Panel Cable, USB Cable
F. ODD Data Cable (Connect To White SATA 6G Connectors On Server Board)
G. MiniSAS (with SGPIO) Cable
H. PMBus Cable
I. HSBP_iFC Cable (From Server Board To First Backplane)
J. HSBP_iFC Cable (From First Backplane To Second Backplane when Second Backplane Available)
K. System FAN 1
L. System FAN 2

RED indicates power cable routing
 BLUE indicates data cable routing



Description
A. CPU1/CPU2 Power Cable
B. Server Board Main Power Cable
C. Backplane Power Cable
D. ODD Power Cable
E. Front Panel Cable, USB Cable
F. ODD Data Cable (Connect To White SATA 6G Connectors On Server Board)
G. MiniSAS (with SGPIO) Cable
H. PMBus Cable
I. HSBP_iFC Cable (From Server Board To First Backplane)
J. HSBP_iFC Cable (From First Backplane To Second Backplane when Second Backplane Available)
K. System FAN 1
L. System FAN 2
M. System FAN 3
N. System FAN 4
O. System FAN 5