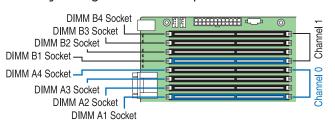


Memory Configurations and Population Order:

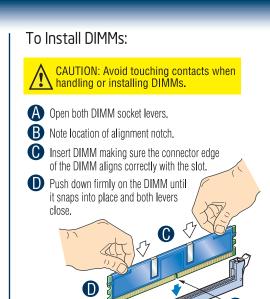


Memory Type: Minimum of one 512MB, DDR2 FBDIMM 533/667 MHz compliant 240-pin gold DIMM.

Populate DDR2 FBDIMMs beginning with A1(single FBDIMM only). Second FBDIMM must be in socket B1. Additional FBDIMMs must be populated only in pairs in the following order: A2 - B2, A3 - B3 and A4 - B4.

DIMM pairs must be identical with respect to size, speed, and organization. Note: For additional memory configurations, see the User's Guide on the CD that accompanied your Intel® Server Board S5000VSA, or go to:

Memory sizing and configuration is guaranteed only for qualified DIMMs approved





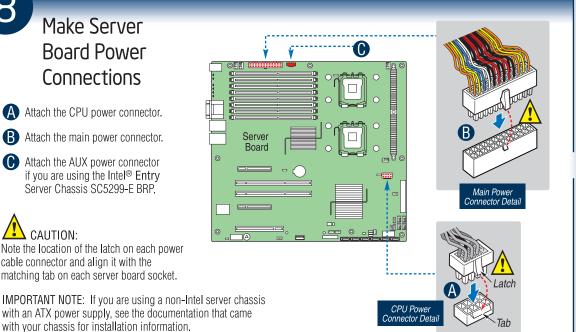
Attach the CPU power connector.

B Attach the main power connector.

Attach the AUX power connector if you are using the Intel® Entry Server Chassis SC5299-E BRP.

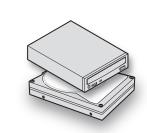


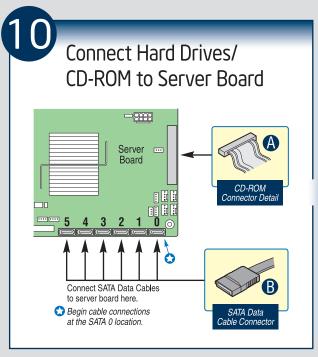
matching tab on each server board socket. IMPORTANT NOTE: If you are using a non-Intel server chassis with an ATX power supply, see the documentation that came

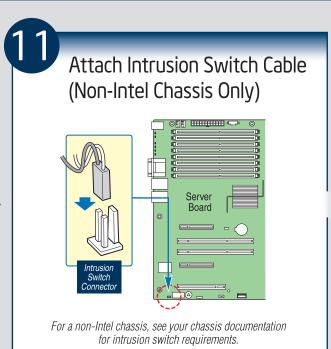


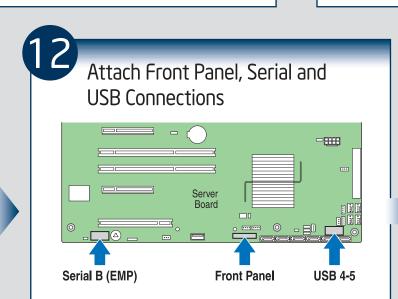


See the documentation that came with your server chassis for drive installation.





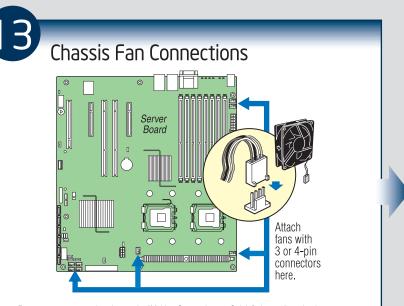




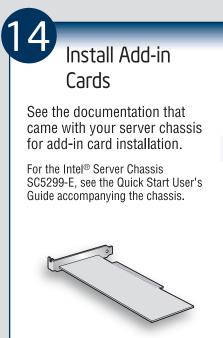
Note: For a non-Intel chassis, see your chassis documentation for front panel features and server board connection requirements.

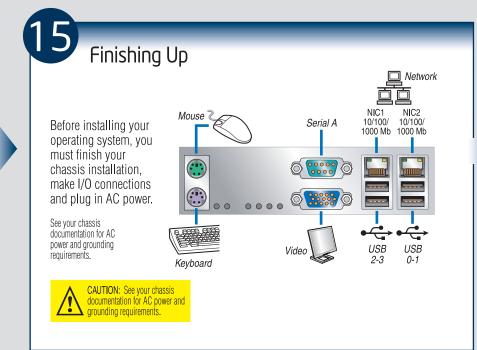
IMPORTANT NOTE: Return to your Intel® Server Chassis Quick Start Jser's Guide, or your non-Intel chassis documentation to finish nstallation and configuration of your Intel® Server Board S5000VSA.

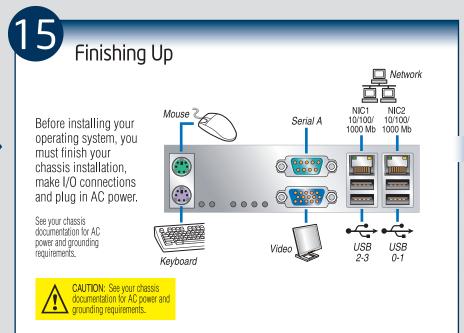
Return to this document to finish up, including software, BIOS, drivers and operating system installation.



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









If new versions are available, update the BIOS on your server. See the User Guide on the Intel® Server Denlovment Toolkit 2.0 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 2.0 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.

E. Install Intel® SMaRT Tool (optional):

With the operating system running, insert the Intel® Server Deployment Toolkit 2.0 CD. The Express Installerwill autorun. Click Intel® SMaRT Tool at the left side of the screen. Follow the on-screen instructions. For information about Intel® SMaRT Tool, see http://developer.intel.com/design/servers/smarttool/index.htm

Reference

Accessories and Order Codes		
Intel [®] Entry Server Chassis SC5299-E with 550W fixed power supply	SC5299DP	
Intel® Entry Server Chassis SC5299-E with 650W 1+0 hot-swap power supply	SC5299BRP	
Intel [®] Entry Server Chassis SC5299-E with 550W fixed power supply and North American power cord	SC5299DPNA	
Intel [®] Entry Server Chassis SC5299-E with 650W 1+0 hot-swap power supply and North American power cord	SC5299BRPNA	
Optional 650W power supply for the	APP4650WPSU	

A complete list of accessories and spares can be found at: www.intel.com/go/serverbuilder

(1) Not available on S5000VSA4DIMMR

Common Problems and Solutions

For a list of hardware components that have been tested with this system, see: http://support.intel.com/support/motherboards/server/s5000vsa/

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

• Check that +12V CPU power connector is plugged in. Without this cable the processor will not have any power.

• Beep code 4-3-2-1 in a system using a Dual-Core Intel® Xeon® processor 5000 sequence (minimum of 2.8 GHz) means you have unrecognized or bad memory.

• Remove and replace DIMMs one bank at a time to isolate which one is causing problems.

Remember, all DIMMs must be:

• FBDIMM1 533/667 MHz compliant 240-pin DIMMs.

The same speed.

From the same manufacturer.

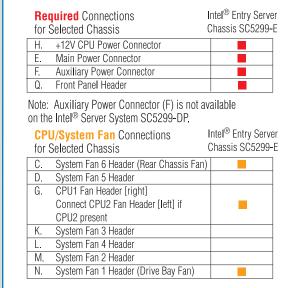
Installed beginning with DIMM A1.

 Your power supply must provide a minimum of 550W with 3A standby current, which complies with the SSI EPS 12V specification.

The system sometimes works, but is exhibiting erratic behavior.

• This is typically the result of using an under-rated power supply. Make sure you are using at least a 550W power supply.

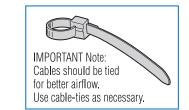
Making Connections to the Server Board ... Quick Reference

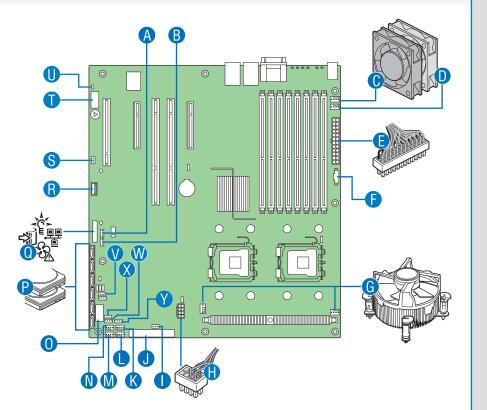


Notes: Not all optional connections are shown in this diagram. Refer to the Reference section of this Quick Start User's Guide, your Intel® Server Board S5000VSA User's Guide, and your server chassis documentation for additional connection information.

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

	t ional Connections Selected Chassis	Intel [®] Entry Server Chassis SC5299-E
Α.	HSBP_A	
В.	HSBP_B	
I.	SAS RAID 5 Key	
J.	CD-ROM/IDE Connector	
0.	USB 4-5	
P.	SATA connectors	
R.	USB 6	
S.	SATA RAID 5 Key	
T.	Serial B (EMP)	
U.	Chassis Intrusion Header	
V.	IPMB	
W.	SATA SGPIO	
Χ.	SAS_SES2	
Y.	SAS SGPIO	





Intel® Server Board S5000VSA Component Layout A. PCI 32/33 Slot 1 B. PCIe* x4 Slot 3 TT-SAS_SES2 (3) SS-PCI-X* 64/133 Slot 4 AA. SAS SGPIO (3) PCI-X* 64/100 Slot 5 BB. System Fan 3 PCIe* x4 Slot 6 CC. System Fan 4 Back Panel I/O Ports DD. System Fan 2 RR-Diagnostic LEDs (1) EE. System Fan 1 FF. SATA SGPIO System ID LED (1) System Status LED (1) GG. USB 4-5 System Fan 6 HH. SATA 0 Connector System Fan 5 SATA 1 Connector PP-SATA 2/SAS 0 Connector Main Power Connector \circ \circ 00-Auxiliary Signal Connector KK. SATA 3/SAS 1 Connector DIMM Sockets (2) LL. SATA 4/SAS 2 Connector MM-CPU 1 Socket MM. SATA 5/SAS 3 Connector CPU 2 Socket NN. HSBP_B LL-CPU Fan 2 Header 00. Front Panel Header KK-CPU Fan 1 Header PP. HSBP_A JJ- \circ \circ \circ \circ CPU Voltage Regulator QQ. USB 6 (1) RR. SATA RAID 5 Key нн---CPU Power Connector SS. Speaker GG-IPMB TT. Serial B EMP Connector W. SAS RAID 5 Key (3) UU Chassis Intrusion (2) S5000VSA4DIMMR only has 4 DIMM sockets | EE|CC|AA| | A| V | FF DD BB ZY W U X. IDE Connector

(3) Only available on S5000VSASASR

