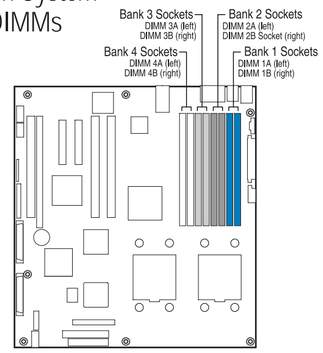
Side 2

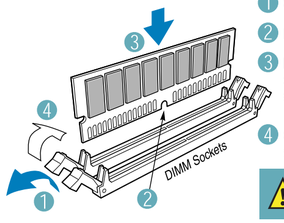
7 Install Main System Memory DIMMs



Memory Type: Minimum of one 256MB, DDR2-400 compliant registered SDRAM 240-pin DIMM, installed in Bank 1 (DIMM 1B or 1A).

Notes and Cautions:
Bank 1 (DIMM1B and DIMM1A) must be fully populated before populating Bank 2 (DIMM2B and DIMM2A). With the exception of a single DIMM allowed in Bank 1, memory must be populated in pairs.

The DIMM size, speed and vendor must be the same within a bank. However, the DIMM size can vary between banks. For example, Bank 1 can use two 256-MB DIMMs and Bank 2 can use two 512-MB DIMMs.



1. Open both DIMM socket levers.
2. Note location of alignment notch.
3. Insert DIMM making sure the connector edge of the DIMM aligns correctly with the slot.
4. Check that socket levers are securely latched.

Avoid touching gold contacts when handling or installing DIMMs.

8 Making Connections to the Server Board ... *Quick Reference*

Required Connections for Selected Chassis

		SC5300 - all configurations
B.	Auxiliary Signal Connector	■
C.	Main Power Connector	■
D.	+12V CPU Power Connector	■
I.	Front USB Header	■
O.	Front Panel Connector	■
P.	Chassis Intrusion Header	■

■ = Make this connection

CPU/System Fan Connections for Selected Chassis

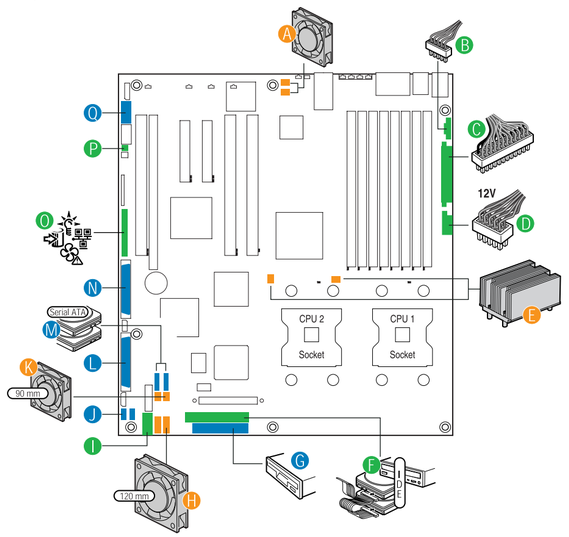
		SC5300 w/Fixed Fans	SC5300 LX
A.	System Fan 5-6 Headers	⊘	⊘
E.	CPU1 Fan Header [right]	⊘	⊘
	CPU2 Fan Header [left] *... if CPU2 is installed*	⊘	⊘
K.	System Fan 1	■ 90 mm Fan	■ 90 mm Fan
K.	System Fan 2	⊘	■ 90 mm Fan
H.	System Fan 3	■ 120 mm Fan	■ 120 mm Fan
H.	System Fan 4	⊘	■ 120 mm Fan

⊘ = Do not connect
■ = Make this connection

Optional Connections for Selected Chassis

		SC5300 - all configurations
F.	IDE Connector	■
G.	Floppy Connector	■
J.	Hot-swap Backplane Headers	■
L.	SCSI CH_A	■
M.	Serial ATA 1-2	■
N.	SCSI CH_B	■
Q.	Serial B Header	■

■ = Make this connection

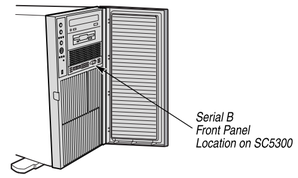


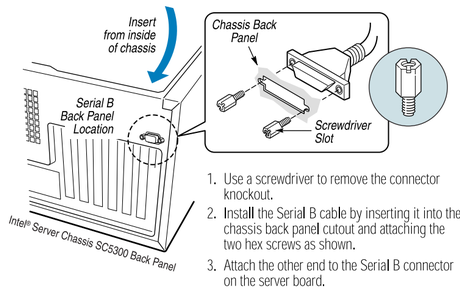
Note: Not all optional connections are shown in this diagram. Refer to the Reference section of this Quick Start User's Guide, your Intel® Server Board SE7520AF2 User Guide, and your server chassis documentation for additional connection information.

9 Install the Serial B Cable (optional)

For the Intel® Server Chassis SC5300, you can connect the Serial B cable to either the front or the rear of the chassis, but not to both locations

See the Connections and Reference sections of this document for server board Serial B header location.





1. Use a screwdriver to remove the connector knockout.
2. Install the Serial B cable by inserting it into the chassis back panel cutout and attaching the two hex screws as shown.
3. Attach the other end to the Serial B connector on the server board.
4. Attach the serial port label to the rear of the chassis, next to the Serial B port.

10 Finishing Up the Hardware

A. Install Intel® Management Module (optional)

If you have purchased either of the Intel Management Modules, see the Intel® Management Module Installation and User's Guide for installation instructions. The Installation and User's Guide is on the Intel® Server Deployment Toolkit CD that came with your server board.

B. Complete Chassis Steps

Complete any remaining steps in your server chassis installation guide.

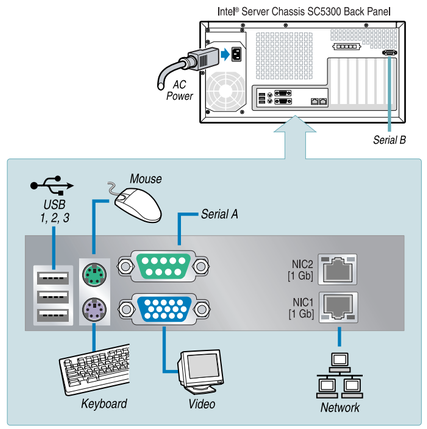
C. Configuration Label

Attach the configuration label to the inside cover of your chassis.

D. Back Panel Connections

Make I/O connections and plug in AC power.

1. Replace the chassis cover.
2. Connect your keyboard, mouse, video, and other I/O cables as shown.
3. Connect the AC power cable last.



11 Drivers, Firmware, and Software

A. Confirm BIOS and FRU/SDR Versions

Look on the Server/System Management screen in the BIOS Setup Utility to determine the installed BIOS and FRU/SDR versions. Compare these to the versions at http://support.intel.com/support/motherboards/server/se7520af2/
If new versions are available, update the BIOS and FRU/SDR on your server. See the User Guide on the Intel® Server Deployment Toolkit CD for update instructions.

B. Configure your Server with the Server Configuration Wizard

Boot to the Server Board SE7520AF2 Intel Server Deployment Toolkit CD. Select the Server Configuration Wizard to configure your server for remote server management. Unless you have downloaded a newer version of the FRU/SDR from the Web, use the Server Configuration Wizard also to load the FRU/SDR.

C. Configure your RAID Controller

If using an add-in card RAID controller, see the instructions provided with the RAID controller. If using the integrated Intel® RAID Controller-SROMBU42E with the Intel RAID Activation Key and a RAID DIMM or the Intel® Portable Cache Module, see the Intel® RAID Software Guide on the Intel Server Deployment Toolkit CD.

D. Install your Operating System

Use the instructions provided with the RAID controller and with the operating system.

E. Install Operating System Drivers

With the operating system running, insert the Intel Server Deployment Toolkit CD. If using a Windows operating system, the Express Installer 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.

F. Install Intel® Server Management 8 (optional)

With the operating system running, insert the Intel® Server Management 8 CD that came with your server board. On a Windows operating system, the Setup program will auto-run. Follow the on-screen instructions. For installation details, see *Getting Started with Intel Server Manager 8*, located on the Intel® Server Management 8 CD.

G. Install Intel SMaRT Tool (optional)

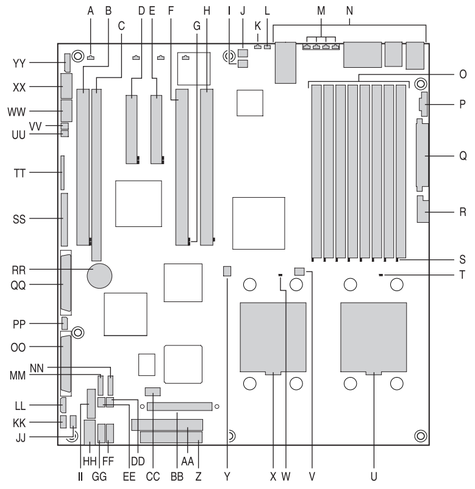
With the operating system running, insert the Intel Server Deployment Toolkit CD. The Express Installer will autorun. Click Intel SMaRT Tool at the left side of the screen. Follow the on-screen instructions. For information about Intel SMaRT Tool, see http://developer.intel.com/design/servers/smarttool/index.htm.

Accessories and Order Codes for Key Accessories	
Intel® Server Board SE7520AF2	SE7520AF2
Intel® Server Chassis SC5300 Base	SC5300BASE
Intel® Server Chassis SC5300 Base Redundant Power	SC5300BRP
Intel® Server Chassis SC5300 LX	SC5300LX
Intel® Server Chassis SC5300 Rack Conversion Kit	ARIGRACK
Intel® Server Chassis SC5300 6-Drive Hot-Swap SCSI Drive Bay Upgrade Kit	AXX6SCSIDB
Intel® Server Chassis SC5300 6-Drive Hot-Swap SATA Drive Bay Upgrade Kit	AXX6SATADB
Intel® Server Chassis SC5300 4-Drive Hot-swap SCSI Backplane	AXX4SCSIDB
Intel® RAID Controller SRCU42X	SRCU42X
Intel® RAID Controller SRCS16	SRCS16
Intel® RAID Activation Key	AXXRAKU42E
Intel® Portable Cache Module	AXXRPCM1
Intel® Local Control Panel	AXXLCPPED
Intel® Management Module - Advanced Edition	AXXIMMADV
Intel® Management Module - Professional Edition	AXXIMMPRO
Intel® RAID Controllser SRCU42E	SRCU42E

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

Reference

Server Board Component Layout



A:	HP PCI rear attention LEDs	AA:	ATA-100 Primary
B:	Slot 1 (PCI-X 64/133)	BB:	IMM Connector
C:	Slot 2 (DDR333 RAID DIMM)	CC:	mBMC
D:	Slot 3 (PCI EXP x4)	DD:	SYS Fan 1 (5-pin)
E:	Slot 4 (PCI EXP x8)	EE:	SYS Fan 2 (5-pin)
F:	Slot 5 (PCI-X 64/133)	FF:	SYS Fan 3 (6-pin)
G:	HP PCI LEDs Attention/Power	GG:	SYS Fan 4 (6-pin)
H:	Slot 6 (PCI-X 64/100)	HH:	USB 4-5
I:	Sys Fan 5 (3-pin)	II:	Battery
J:	Sys Fan 6 (3-pin)	JJ:	HSBP_B
K:	ID LED	KK:	HSBP_A
L:	Status LED	LL:	FP LCP
M:	POST LEDs	MM:	SATA_A1
N:	Back Panel I/O Connectors	NN:	SATA_A2
O:	DDR2-400 DIMM slots	OO:	SCSI CH_A
P:	AUX SIG	PP:	IPMB
Q:	SSI Power	QQ:	SCSI CH_B
R:	CPU Power (12V)	RR:	RAID Activation Key Socket
S:	DIMM Fault LEDs	SS:	Front Panel
T:	CPU_1 Fault LED	TT:	Recovery Jumpers
U:	CPU_1 Socket	UU:	HDD LED
V:	CPU_1 Fan Connector	VV:	Chassis Intrusion
W:	CPU_2 Fault LED	WW:	OEM RMC
X:	CPU_2 Socket	XX:	Serial B
Y:	CPU_2 Fan Connector	YY:	ICMB
Z:	Floppy Connector		

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/se7520af2/

Memory DIMM does not fit into DIMM socket.
- This server board does not support DDR memory in the main memory DIMM sockets. You must install DDR2 DIMMs in DIMM sockets 1A, 1B, 2A, 2B, 3A, 3B, 4A, and 4B. Attempting to install DDR memory into one or more of these sockets can damage the server board DIMM sockets.
- The RAID DIMM socket supports only DDR333 memory. Do not install a DDR2 DIMM in the RAID DIMM memory socket. Attempting to install a DDR2 DIMM into the RAID DIMM socket can damage the RAID DIMM socket.

The system does not boot or show video at power-on.
- Check that +12V CPU power connector is plugged in. Without this cable the processors will not have any power.
- If configuring with only one processor verify that the processor is in the Primary Processor socket (CPU 1).
- Remove and replace DIMMs one bank at a time to isolate which one is causing problems.
- Remember, all system DIMMs must be:
  - Registered DDR2-400 compliant.
  - The same speed.
  - From the same manufacturer.
  - Installed beginning with Bank 1 (DIMM 1B or DIMM 1A).
  - Installed with no empty sockets in between filled sockets.
- Your power supply must provide a recommended minimum of 600W with 2A 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 power supply with a wattage sufficient to power all server board components. The minimum recommended power supply is 600W.