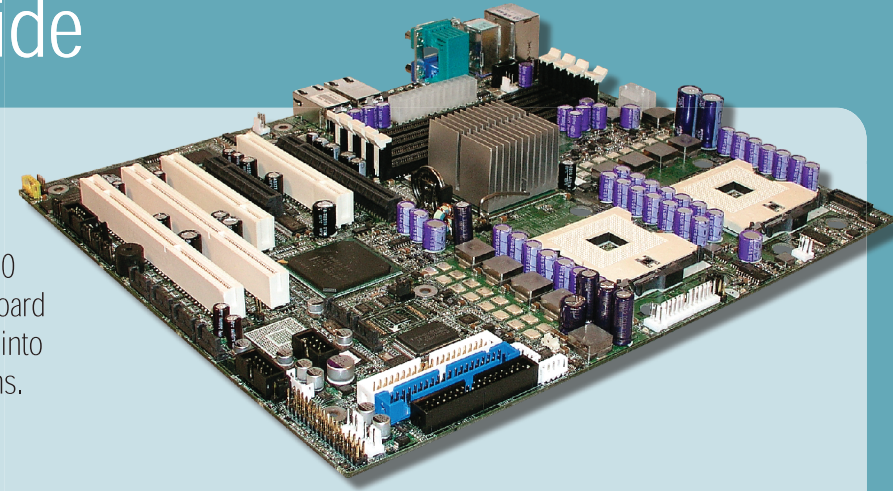




Intel® Server Board SE7525GP2/SE7320SP2 Quick Start User's Guide



Thank you for buying an Intel® Server Board. The following information will help you to prepare your chassis for integration with your Intel® Server Board SE7525GP2/SE7320SP2. The Intel® Server Chassis SC5300 and SC5275-E are designed for use with the Intel® Server Board SE7525GP2/SE7320SP2. When installing the server board into a reference chassis, refer to the reference chassis instructions.

These guides and other supporting documents [including a list of supported server boards] are located on the web at <http://support.intel.com/support/motherboards/server/se7525gp2/> <http://support.intel.com/support/motherboards/server/se7320sp2/> You can also find the guides on the CD that accompanied the Intel® Server Board SE7525GP2/SE7320SP2.

If you are not familiar with ESD (Electrostatic Discharge) procedures used during system integration, please see the Intel® Server Board SE7525GP2/SE7320SP2 User Guide, available on the CD or at <http://support.intel.com/support/motherboards/server/se7525gp2/> <http://support.intel.com/support/motherboards/server/se7320sp2/>

Warning

Read all caution and safety statements in this document before performing any of the instructions. Also see the *Intel® Server Board and Server Chassis Safety Information* document at: <http://support.intel.com/support/motherboards/server/> for complete safety information.

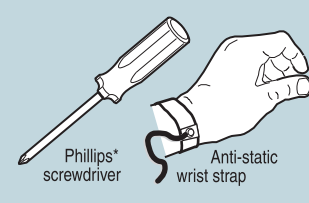
Warning

Installation and service of this product to be performed only by qualified service personnel to avoid risk of injury from electrical shock or energy hazard.

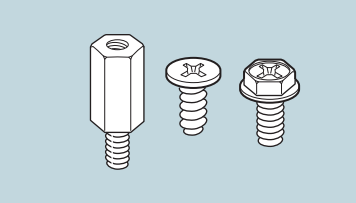
Caution

Observe normal ESD [Electrostatic Discharge] procedures during system integration to avoid possible damage to server board and/or other components.

Tools Required



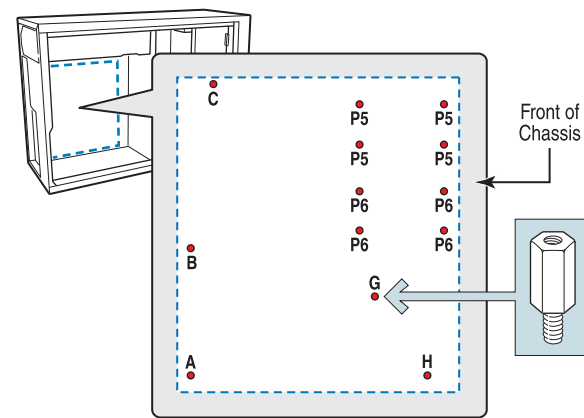
Fastener Identification Guide



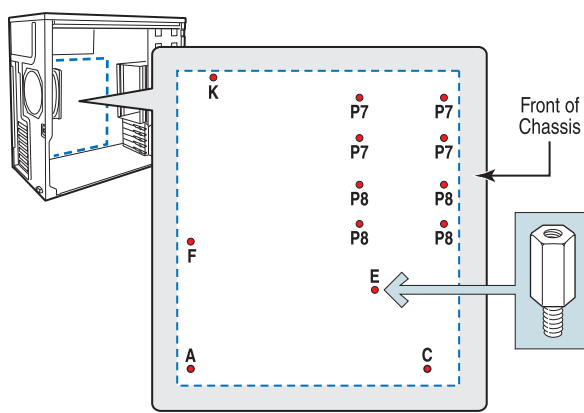
3 Installing the Chassis Standoffs

Standoffs are included with your chassis. Standoff numbering varies by chassis. Standoff locations for the Intel® Server Chassis SC5300 and SC5275-E are shown below.

For the Intel® Server Chassis SC5300:
Install standoffs in positions A, B, C, G, H, the four positions marked P5, and the four positions marked P6.



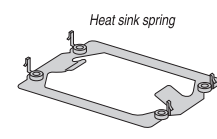
For the Intel® Server Chassis SC5275-E:
Install standoffs in positions A, C, E, F, K, the four positions marked P7, and the four positions marked P8.



4 Install the Server Board

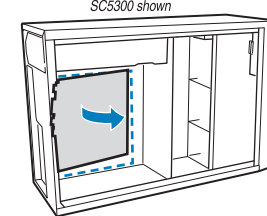
A. Check for Heat Sink Spring

Make sure the heat sink springs are installed on the underside of the board. If not, insert the spring clips through the matching holes around the processor, from the underside of the server board.



B. Insert the Server Board

Place the board into the chassis. Insert the front of the board first, then slide the board back so the I/O connectors fit through the I/O shield. Make sure the back panel I/O shield openings and chassis standoffs align correctly.

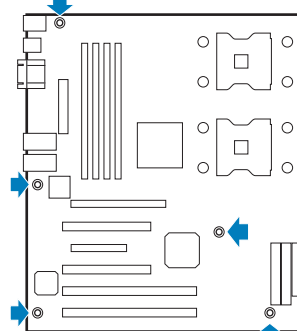
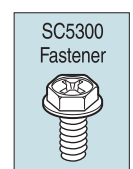


C. Attach the Server Board

Note: The Intel® Server Chassis SC5300, and the Intel® Server Chassis SC5275-E use different fasteners to attach the server board to the chassis. Use the fastener indicated for your chassis.

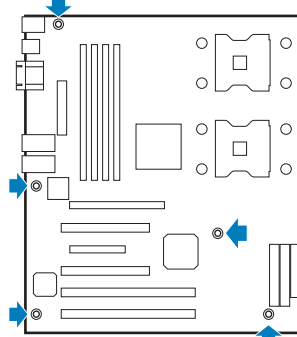
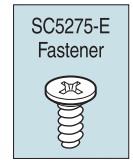
Intel® Server Chassis SC5300

Attach the board with the screws at the 5 locations indicated by the figure.



Intel® Server Chassis SC5275-E

Use screws to attach the board to the server at the 5 locations indicated by the figure.



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Minimum Hardware Requirements

To avoid integration difficulties and possible board damage, your system must meet the following minimum requirements:

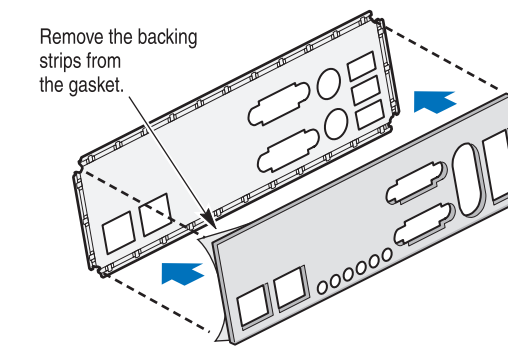
- Processor: Minimum of one Intel® Xeon™ processor with an 800MHz FSB.
- Memory: Minimum of one 128 MB, DDR266/333-compliant registered SDRAM 184-pin gold DIMM.
- Power: Minimum of 600W with 2A of standby current, which meets the SSI EPS 12V specification.

1 Preparing the Chassis

When using an Intel® Server Chassis, begin with the Quick Start User's Guide that came with your chassis. Return to this document when directed by the server chassis Quick Start User Guide. If using a non-Intel server chassis, refer to the documentation that came with your chassis for preparatory steps.

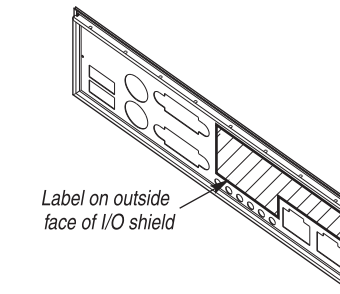
2 Installing the I/O Shield and Gasket

A. Attach the gasket to the I/O shield



Press the gasket onto the **inside** face of the I/O shield as shown.

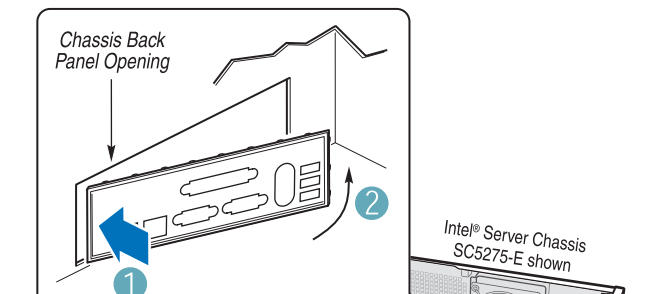
B. Attach the label to the I/O shield



Remove the backing from the label included with your server board. Press the label onto the outside face of the I/O shield.

C. Install the I/O shield

Shield installs from **inside** of chassis. The label should be visible from the outside of the chassis.



- 1 Insert one side edge of shield as shown.
- 2 Push shield firmly into chassis opening until it clicks into place.

5 Install the Processor[s] and Heat Sink[s]

Notes and Cautions

1. If only ONE processor is to be used, it must be installed in the Processor Socket 1.
2. Do not mix processors of different types or frequencies.
3. When unpacking a processor, hold by the edges only to avoid touching the pins.
4. This server board has "zero-insertion force" sockets. If processor does not drop easily into socket holes, make sure lever is in the full-open position.

D. Server Chassis SC5275-E only: Connect Heat Sink Fan Cable(s)

Attach the fan cable(s) to the fan header(s) on the server board. See Step 7, letters F and H for the appropriate location(s).

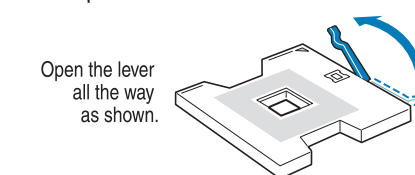
E. Install the Heat Sink

The heat sink attaches directly to the chassis using the standoffs installed in Step 3. Each heat sink has four captive fasteners and should be tightened using the following procedure:

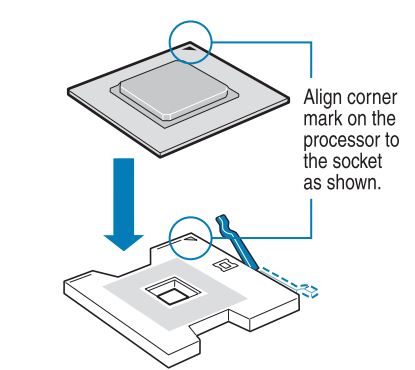
- A. Finger-tighten each fastener, going around the heat sink in a clockwise direction.
- B. Securely re-tighten each fastener again in the same order as performed in step A.

Note: Heatsink styles may differ. The heat sink shown below is for the Server Chassis SC5300. The heat sink for the Server Chassis SC5275 includes a fan with a cable that must be connected to the server board.

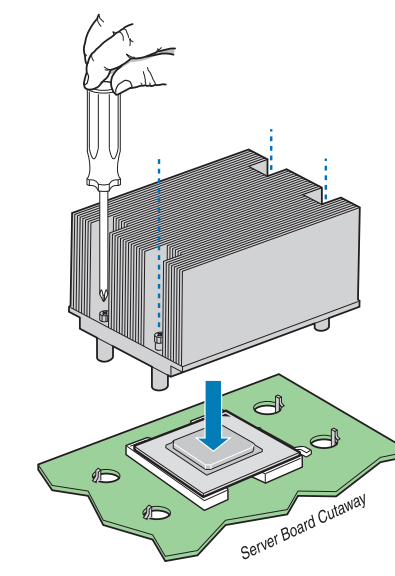
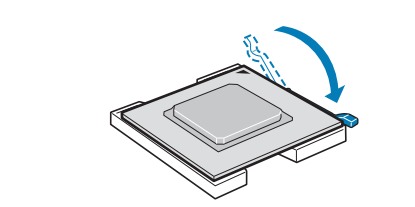
A. Open the Socket Lever



B. Install the Processor



C. Close the Socket Lever

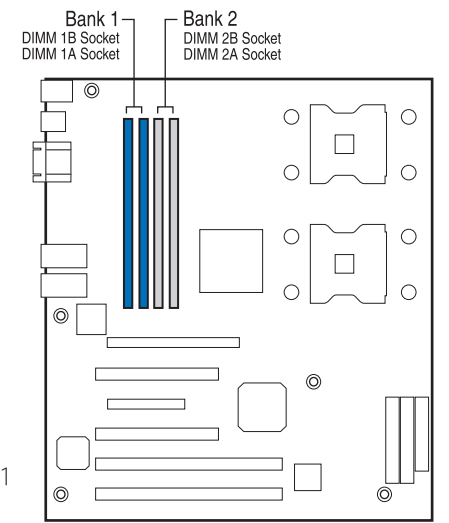


6 Install DIMM Memory

Memory Type: Minimum of one 256MB, DDR266/333-compliant registered SDRAM 184-pin gold DIMM.

Notes and Cautions: A single DIMM can be used in DIMM1B. Bank 1 (DIMM1A and DIMM1B) must be fully populated before populating Bank 2 (DIMM2A and DIMM2B). Memory in Bank 2 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.

