

Intel® Server Board SE7501CW2 Quick Start User's Guide



Start Here

Thank you for buying an Intel® Server Board. The following information will help you prepare your server board for integration with your selected server chassis. This guide is for technically qualified persons. Expanded installation instructions and complete product information are available in the *Intel® Server Board SE7501CW2 Product Guide* located on the Resource CD.

Minimum Hardware Requirements

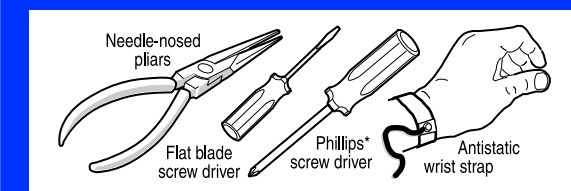
To avoid integration difficulties and possible board damage, your system must meet the following minimum requirements:

- **Processor:** Minimum of one Intel® Xeon™ processor with 512KB L2 cache support
- **Memory:** Minimum of one 128 MB, DDR200/266-compliant registered SDRAM 184-pin gold DIMMs.
- **Power:** Minimum of 450W with 2A of standby current, which meets the SSI EPS 12V specification.

Additional resources and support for your server board, including supported processors, tested chassis, qualified memory and chassis components, specifications, and software updates, can be found at: <http://support.intel.com/support/motherboards/server/SE7501CW2>

Before you begin

You will need the following tools and equipment:



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For more information on Intel's added-value server offerings, visit the **Intel® ServerBuilder** website at: www.intel.com/go/serverbuilder

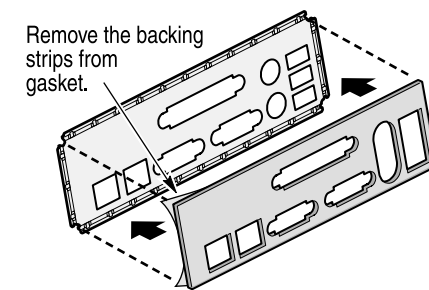
Intel ServerBuilder is your one-stop shop for information about all of Intel's Server Building Blocks such as:

- Product information including product briefs and technical product specifications
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- Configuration tools to help you build complete solutions
- Training information such as the Intel® Online Learning Center
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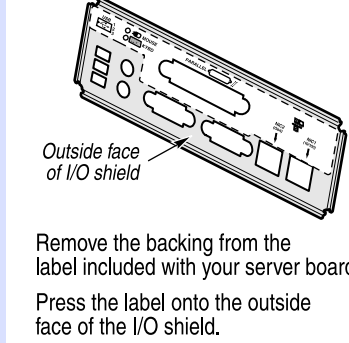
¹ Available only to Intel® Channel Program Members, part of Intel® e-Business Network.

1 Installing the I/O Shield and Gasket

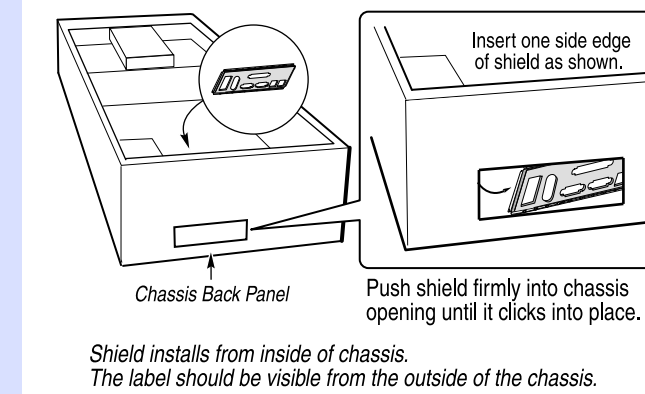
A Attaching the Gasket to the I/O Shield



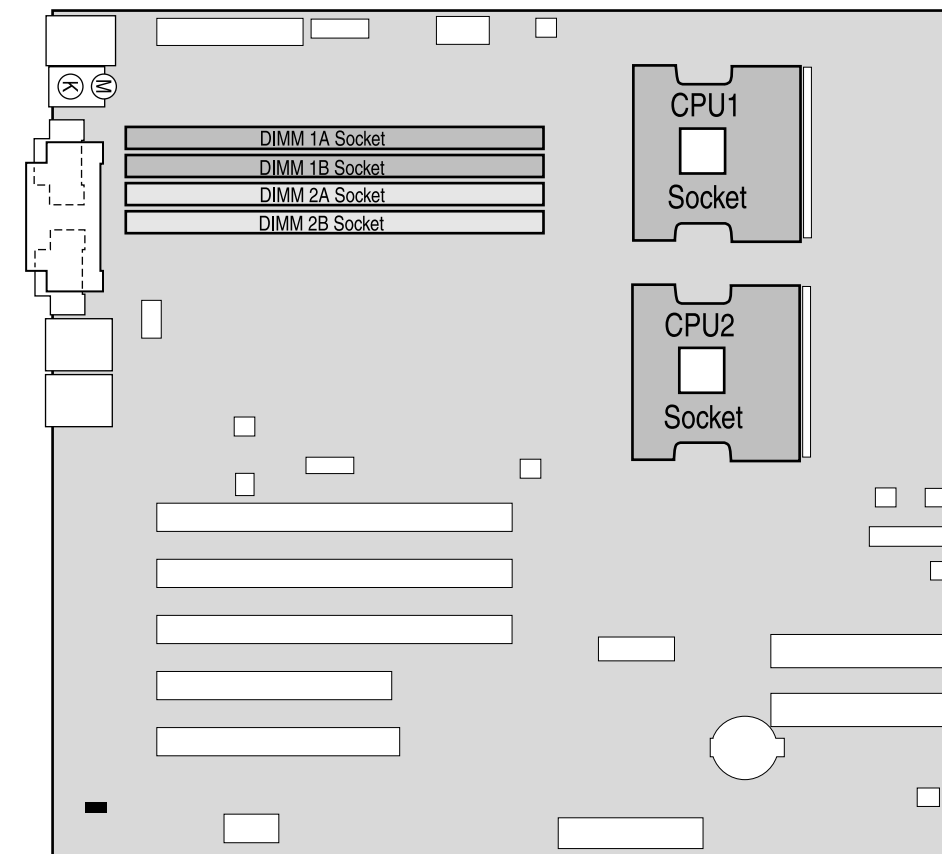
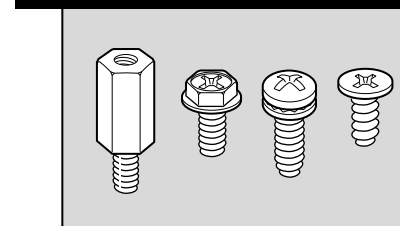
B Attaching the Label to the I/O Shield



C Installing the I/O Shield



Fastener Identification Guide (Fasteners are included with chassis and boxed processor)

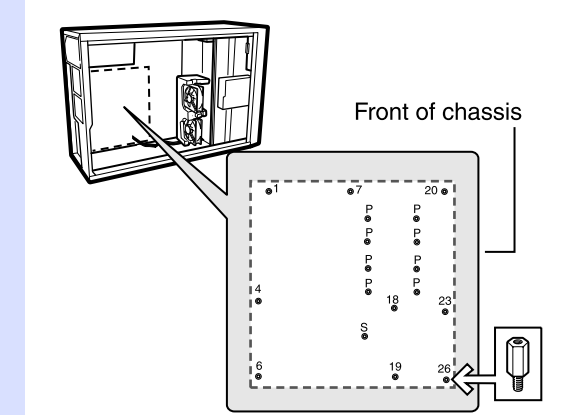


2 Installing the Chassis Standoffs

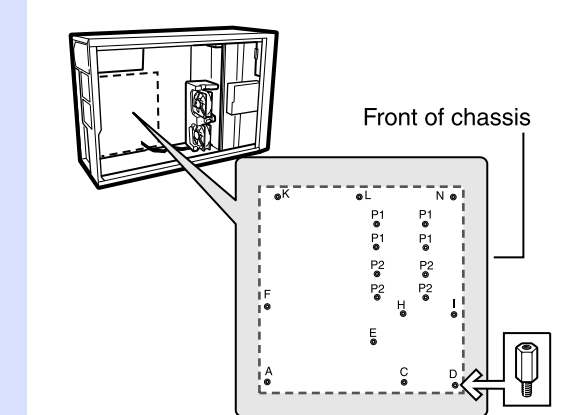
Standoffs are included with your chassis. Standoff numbering varies by chassis. Standoff locations for the Intel Server Chassis SC5200 and SC5250-E are shown below.

If you are using a non-Intel chassis, you may need to install the adhesive-backed standoff included with your server board. This standoff is used when the non-Intel chassis does not include a standoff hole in one of the referenced locations. Refer to documentation provided by your chassis vendor for standoff placement information.

For the Intel® SC5200 chassis: Install standoffs in positions 7, 18, 19, S and in the eight positions marked P.



For the Intel® SC5250-E chassis: Install standoffs in positions L, H, C, E, the four positions marked P1, and the four positions marked P2.

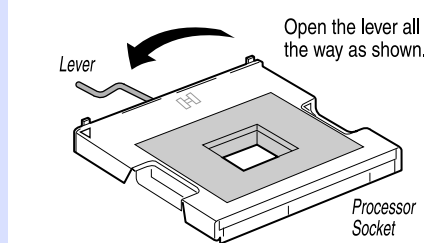


5 Installing the Processor[s]

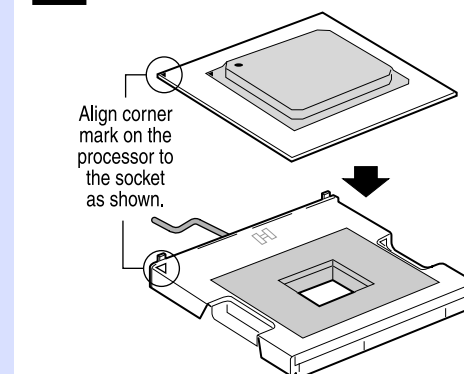
Notes and Cautions:

1. If only ONE processor is to be used, it must be installed in the processor socket labeled CPU1, located closest to the corner of the server board.
2. If installing a SECOND processor, verify that the processors are identical, same voltage and speed. 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 and the processor is oriented properly.
5. Use the retention mechanism clips that come with your boxed processor. The Intel® Xeon™ processors 400 MHz and the Intel® Xeon™ processors 533 MHz use slightly different clips. Use only the clips that come with your processor.

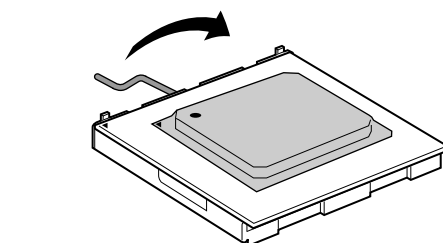
A Open the Socket Lever



B Install the Processor

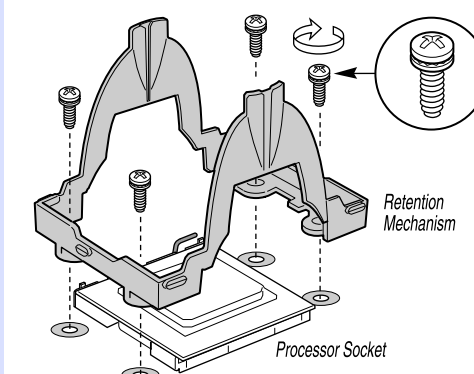


C Close the Socket Lever

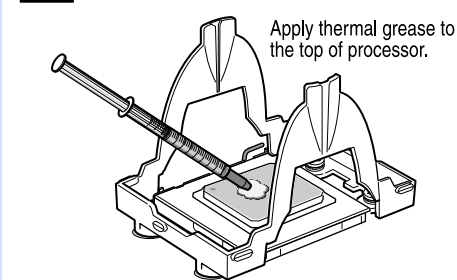


D Install the Retention Mechanism

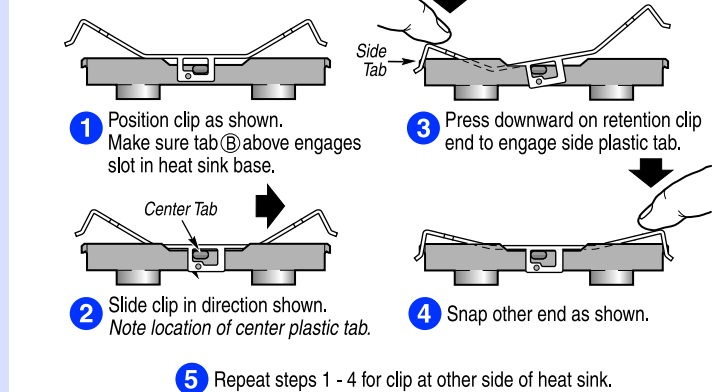
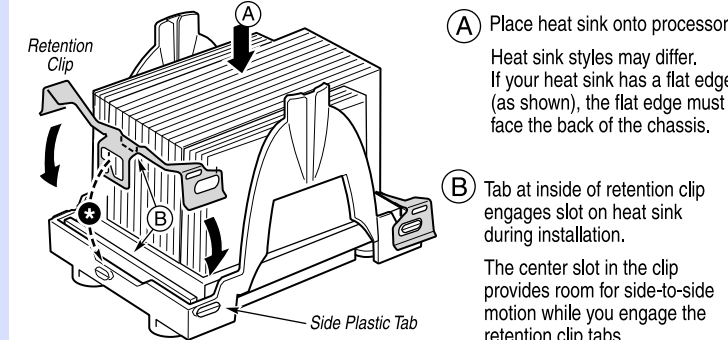
SC5200: use fasteners provided with boxed processor.
SC5250-E: use slightly shorter fasteners provided with chassis.



E Apply Thermal Grease



F Installing the Heat Sink and Retention Clips



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.

See the *Intel Server Board SE7501CW2 Product Guide* located on the CD that came with your server board for product safety and EMC regulatory compliance information.

If you are not familiar with ESD (Electro-Static Discharge) procedures to be used during system assembly, complete ESD Procedures are described in your *Intel Server Board SE7501CW2 Product Guide*.

3 Installing the Server Board

Note: The SC5200 Base and Base Redundant Power Chassis and the SC5250-E Chassis use different fasteners to attach the server board to the chassis. Be sure to use the fastener indicated for your chassis. Fasteners are included with your chassis.

SC5200 fastener

SC5250-E fastener

4 Installing Memory

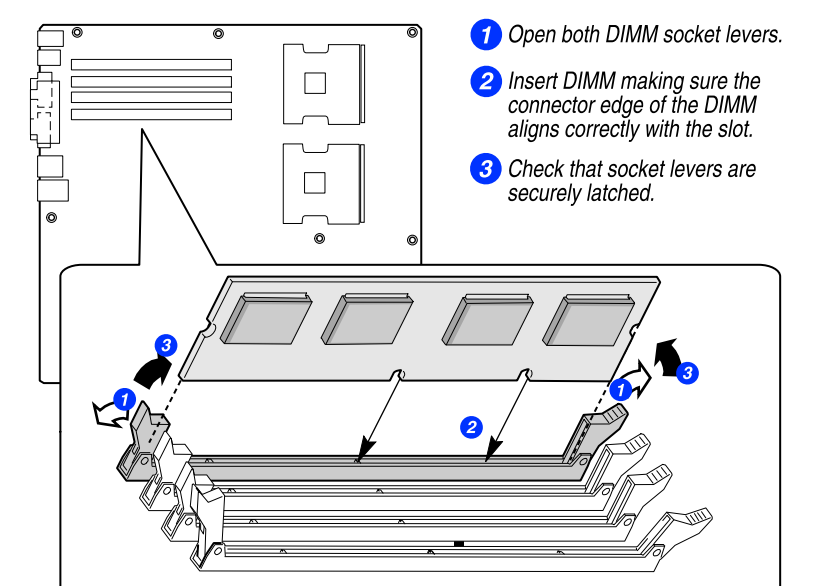
DIMM Memory Modules

Notes and Cautions:
A single DIMM can be used in the first slot of Bank 1. Bank 1 must be fully populated before populating Bank 2. Memory in Bank 2 must be populated in pairs. See the illustration at the center of this page.

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 128 MB DIMMs and Bank 2 can use two 256 MB DIMMs.

See "Minimum Hardware Requirements" in the Start Here box above left for correct DIMM specifications.

Avoid touching gold contacts when handling or installing DIMMs.



Go to SIDE 2

