

# Intel® Server Board SE7505VB2 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 SE7505VB2 Product Guide* located on the Resource CD.

### Minimum Hardware Requirements

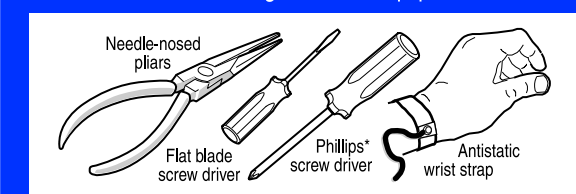
To avoid integration difficulties and possible board damage, your system must meet the following minimum requirements:

- Processor:** Minimum of one Intel® Xeon™ processor with 512KB L2 cache support
- Memory:** Minimum of one 128 MB ECC, DDR266-compliant registered SDRAM 168-pin gold DIMM.
- Power:** Minimum of 450W with 2A 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/SE7505VB2>

### Before you begin

You will need the following tools and equipment:



## Build Value With Intel

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- Worldwide 24x7 technical support [AT&T Country Code + 866-655-6565]<sup>1</sup>
- World-class service, including a three-year warranty and Advanced Warranty Replacement<sup>1</sup>

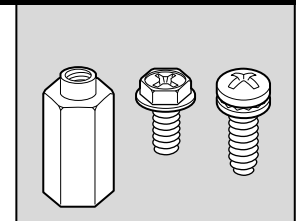
For more information on Intel's added-value server offerings, visit the **Intel® ServerBuilder** website at: [www.intel.com/go/serverbuilder](http://www.intel.com/go/serverbuilder)

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
- Sales tools such as videos and presentations
- Configuration tools to help you build complete solutions
- Training information such as the Intel® Online Learning Center
- Support information and much more

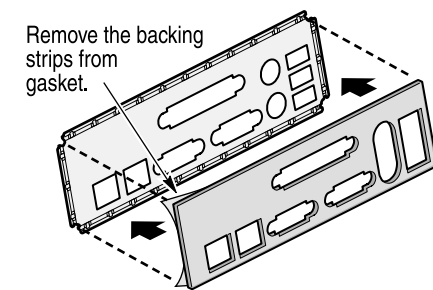
<sup>1</sup> Available only to Intel® Channel Program Members, part of Intel® e-Business Network.

### Fastener Identification Guide



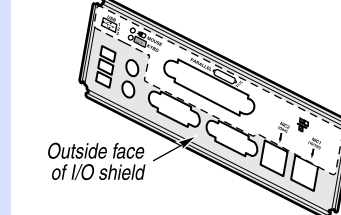
## 1 Installing the I/O Shield and Gasket

### A Attaching the Gasket to the I/O Shield



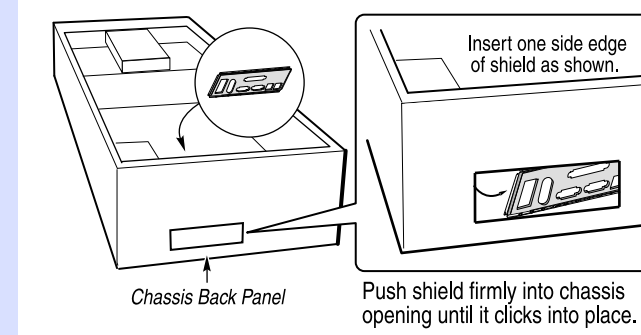
Remove the backing strips from gasket.  
 Press the gasket onto the inside face of the I/O shield as shown.

### B Attaching the Label to the I/O Shield

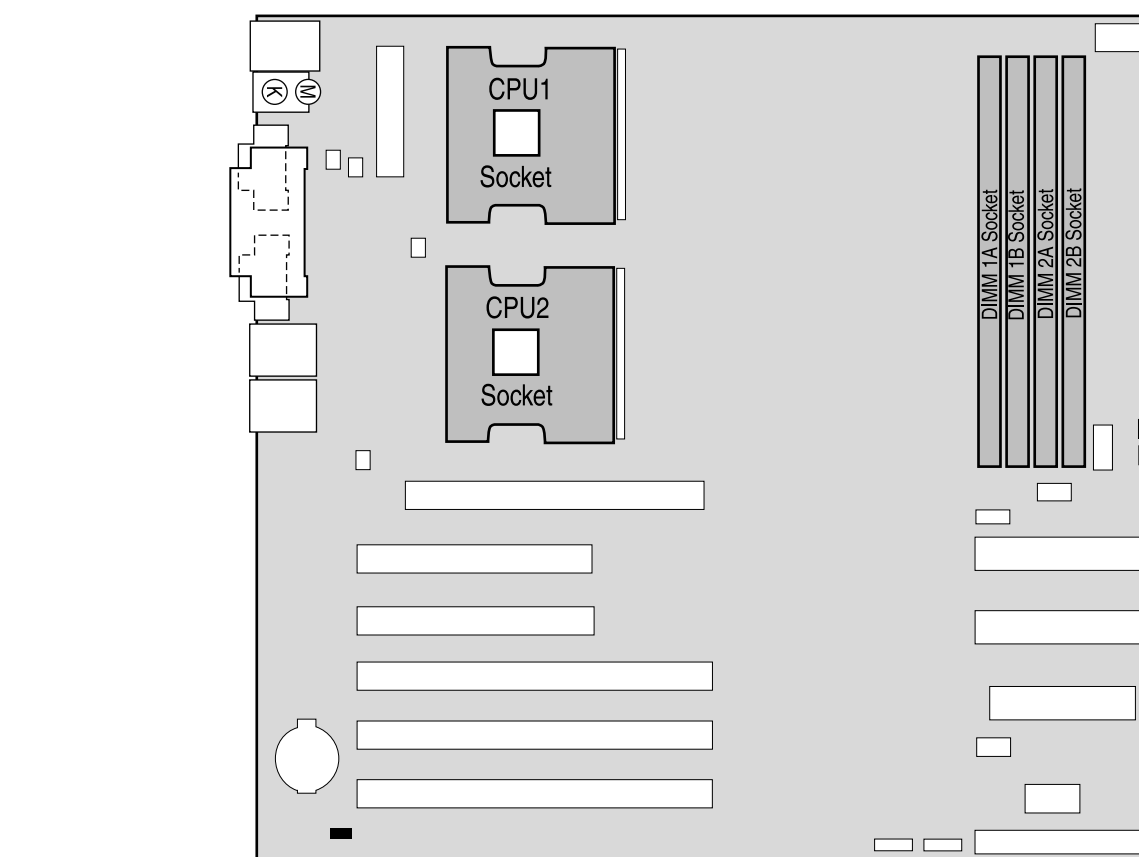


Remove the backing from the label included with your server board.  
 Press the label onto the outside face of the I/O shield.

### C Installing the I/O Shield

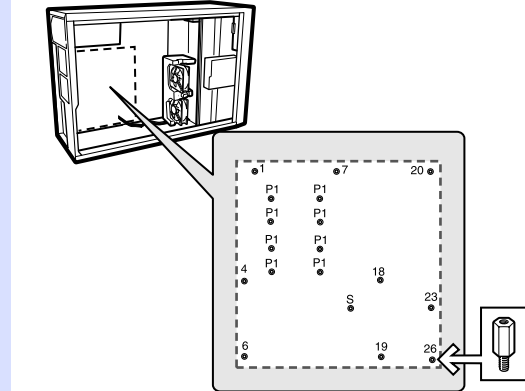


Shield installs from inside of chassis. The label should be visible from the outside of the chassis.



## 2 Installing the Chassis Standoffs and Bumper

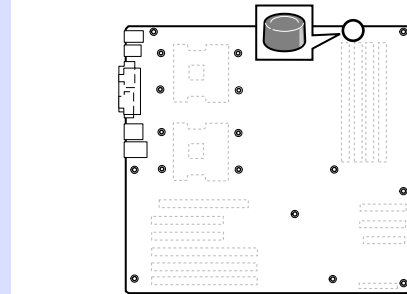
### A Installing the Standoffs



For the Intel® SC5200 chassis: Install standoffs in positions 7, 18, 19, S and in the eight positions marked P1.

Standoffs are included with your chassis. Standoff numbering in other chassis may be different. 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.

### B Installing the Bumper



For the Intel SC5200 chassis: A rubber bumper is included with your chassis.

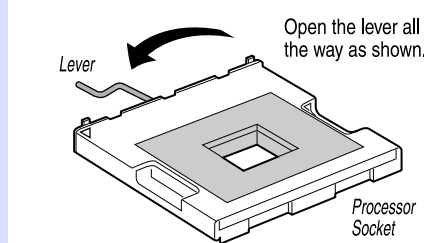
The silkscreen on the back of the server board indicates the placement of the rubber bumper. Remove the paper backing from the bumper and press it firmly into place on the back of the board where indicated.

## 5 Installing the Processor[s]

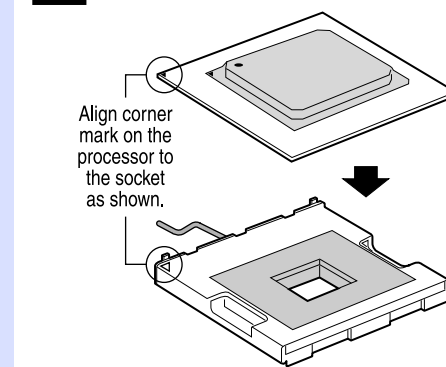
### Notes and Cautions:

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 400 MHz and 500 MHz versions of the Intel® Xeon™ processors use slightly different clips. Use only the clips that come with your processor.

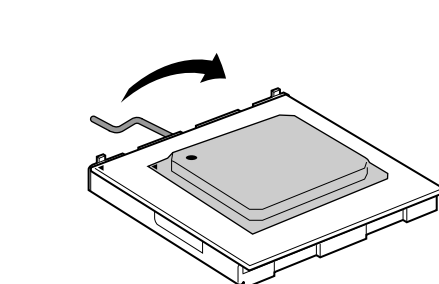
### A Open the Socket Lever



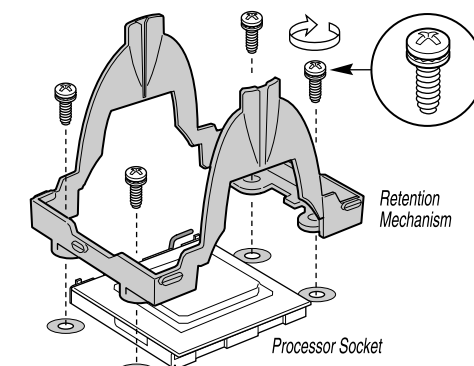
### B Install the Processor



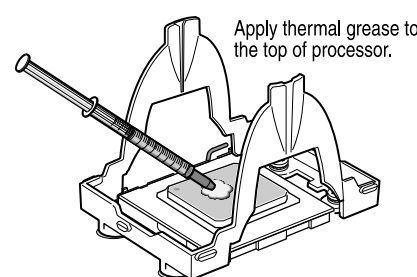
### C Close the Socket Lever



### D Install the Retention Mechanism



### E Apply Thermal Grease

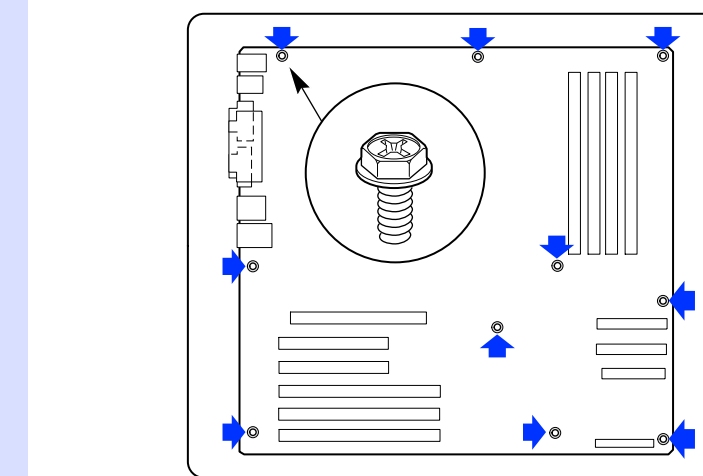


**WARNING:** Installation and service of this product to be performed only by qualified service personnel to avoid risk of injury from electrical shock or energy hazard.

See the *Intel Server Board SE7505VB2 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 SE7505VB2 Product Guide*.

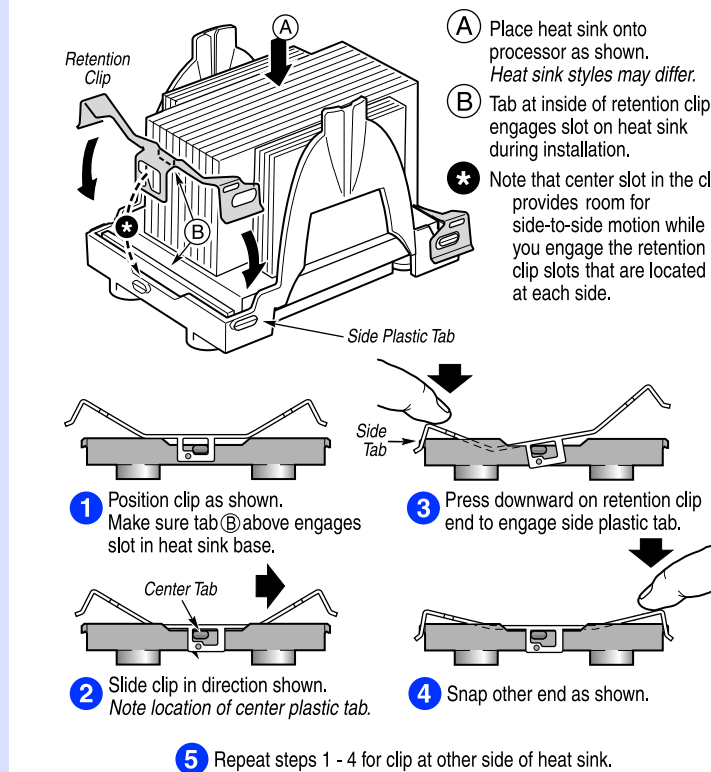
## 3 Installing the Server Board



- 1 Place the board into the chassis, making sure that the back panel I/O shield openings and the chassis standoffs align correctly.
- 2 Attach the board with the screws at the 10 locations marked in the figure.

Note: If a single processor is to be installed, also insert screws into the 4 standoff locations bordering the CPU2 socket.

## F Installing the Heat Sink and Retention Clips



## 4 Installing Memory

### DIMM Memory Modules

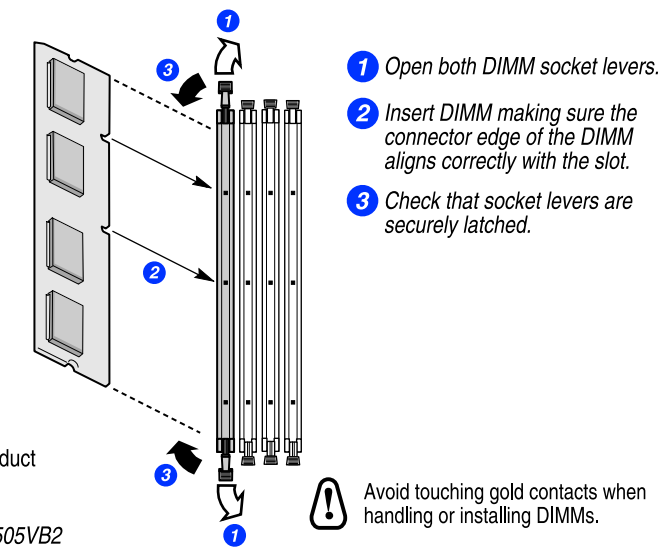
#### Notes and Cautions:

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.

Although the server board architecture allows the user to mix various sizes of DIMMs between banks (Bank 1 and Bank 2), DIMMs must be identical within each bank.

If the operating environment for your SE7505VB2 system exceeds 30 degrees Celsius and you are installing either stacked 1 GB DIMMs or 2 GB DIMMs, you need to install a DIMM cooling duct. Refer to the Intel Server Board SE7505VB2 Technical Product Specification document for information about cooling requirements, the DIMM cooling duct and how to obtain it. The Technical Product Specification is available at <http://support.intel.com/support/motherboards/server/SE7505VB2>

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



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

Avoid touching gold contacts when handling or installing DIMMs.

Go to SIDE 2

