Preparing the Chassis

Install Server Board Bumpers

![Image](https://www.intel.com/support/motherboards/server/sb/cs-010770)

Install the reserved.

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Warning

Read all caution and safety statements in this document before performing any of the procedures during system integration. If you are not familiar with ESD (Electrostatic Discharge) procedures used during system integration, please see the Intel® Server Board S1200BTL Service Guide, available on the Intel® Server Deployment Toolkit CD or at the Intel® Server Support site at http://www.intel.com/support/motherboards/server/

Safety Information

Server Board and Server Chassis

Observe normal ESD (Electrostatic Discharge) procedures during system integration to avoid possible damage to server board and other components.

Installation and service of this product should only be performed by qualified service personnel in a workstation provided by Intel or its authorized distributors.

Tools Required

![Image](https://www.intel.com/support/motherboards/server/sb/cs-010770)

Fastener Identification Guide

Minimum Hardware Requirements

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

- Processor: Intel® Xeon® 5300/5400 processor or the 2nd Generation Intel® Core™ processor
- Memory Type: 32 GB maximum or ECC DDR3L-1600 (8 DIMMs)
- Power: 100-240 VAC with 3x of steady current, which must comply with the EECP/IEC specifications

Preparing the Chassis

If using a non-Intel® server chassis, refer to the documentation that came with your chassis for preparatory steps.

Before performing any of the procedures during system integration, observe normal ESD (Electrostatic Discharge) procedures.

Place your Intel® Server Chassis and Intel® Server Board in a flat and static-free surface to perform the following integration procedures. Always touch the chassis frame first, before reaching inside to install the server board, make server board connections or install other components.

Installing the I/O Shield and Attach I/O Labels

Note: The I/O Shield and I/O Label installation procedures shown below apply to the Intel® Server Chassis P4000 series.

Attach the labels to the I/O Shield (optional)

Note: Make sure you install the label on the correct side of the I/O Shield. Note the orientation of the label when attaching it to the chassis.

First, remove the label from the I/O Shield label included with your server board or order the label from Intel if not included. Some third party chassis may require a different procedure. Refer to the reference chassis instructions. For non-Intel® server chassis, use the fasteners that came with your chassis.

Repeat these steps to install the second and third I/O Shield labels.

Install the I/O Shield

Shield installs from outside the chassis. The label should be located in the location marked on the outside of the chassis.

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

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![Image](https://www.intel.com/support/motherboards/server/sb/cs-010770)

IMPORTANT NOTE: If you are using a non-Intel® server chassis, see your chassis documentation for preparatory steps prior to server board installation. If you are using a non-Intel® server chassis, use the fasteners that came with your chassis.

Use screws to attach the board to the chassis at the 9 locations indicated by the screw icons in the figure.

For a non-Intel® server chassis, use the fasteners that came with your chassis.

For the Intel® Server Chassis P4000 series, insert the front of the board under the shoulder screw as the lever is lowered.

Before proceeding, make sure the lever is securely latched.

Make sure all the six circles are shown.

![Image](https://www.intel.com/support/motherboards/server/sb/cs-010770)

Cautions:

- DO NOT DROP the cover onto the board, do not lay flat with the cover facing up.
- To avoid damage, DO NOT TOUCH the gold contact wires.
- To avoid damage, DO NOT TOUCH the socket wires or components.
- SELECT the correct cover. Cautions:

When unpacking a processor, open all the way.

CAUTION: When unpacking the processor, use the processor handle to avoid injuries from sharp edges.

Use the following procedure to install an active heat sink on your server board.

1. Align heat sink to the holes in the Intel® Server Chassis block. Snap through holes in server board.
2. Do not rotate the active heat sink further than the thermal interface material.
3. Secure the heat sink to the server board with the four screws included with the heat sink.
4. Press downward on the locking lever.
5. Slide the tab out of the lock and under the tab to secure the lever in the locked position.
6. Press downward on the locking lever.
7. Slide the tab out of the lock and under the tab to secure the lever in the locked position.

Carefully lower the load plate over the processor.

![Image](https://www.intel.com/support/motherboards/server/sb/cs-010770)

Install the Processor

![Image](https://www.intel.com/support/motherboards/server/sb/cs-010770)

If using a non-Intel® server chassis, see your chassis documentation for preparatory steps prior to server board installation.

A. Insert the Server Board

Prepare Server Board

Insert the server board into the chassis, making sure that back panel I/O openings and chassis key area align correctly.

![Image](https://www.intel.com/support/motherboards/server/sb/cs-010770)

B. Attach the Server Board

The directions below are for the Intel® Server Chassis P4000 series.

For a non-Intel® server chassis, use the fasteners that came with your chassis.

When using the Intel® Server Chassis P4000 series, insert the front of the board under the shoulder screw as the lever is lowered.

Before proceeding, make sure the lever is securely latched.

Make sure all the six circles are shown.

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Cautions:

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