

# Intel® Server Board S2600CP Quick Start User's Guide

Thank you for buying the Intel® Server Board S2600CP. The following information will help you integrate your new server board into a server chassis. The Intel® Server Board S2600CP is designed for use with the Intel® Server Chassis P4000 series.

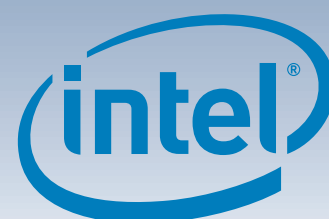
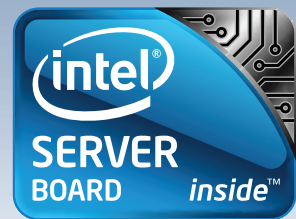
For details on these chassis or to select a third party chassis, please visit <http://www.intel.com/go/serverbuilder> and <http://www.intel.com/support/motherboards/server>.

When installing the server board into a reference chassis, refer to the reference chassis instructions.

If you are not familiar with ESD (Electrostatic Discharge) procedures used during system integration, please see the Intel® Server Board S2600CP Service Guide at: <http://www.intel.com/support/motherboards/server>.

Please boot to the Intel® Server Deployment and Management DVD first for BIOS and firmware configuration and updates.

Read all cautions and warnings first before starting your server system integration.

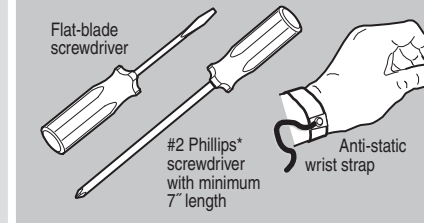


## Minimum Hardware Requirements

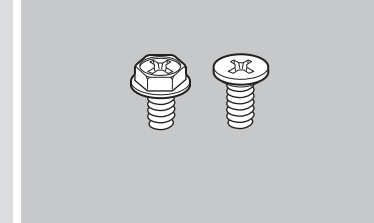
To avoid integration difficulties and possible board damage, your system must meet the following minimum requirements:

- Processor: Intel® Xeon® Processor E5-2600 series with compatible heat sink(s).
- Memory Type: Minimum of one 1 GB DDR3 800/1066/1333/1600 MHz UDIMM/RDIMM/LRDIMM.
- Power: SSI EPS 5V compliant power supply.

## Tools Required

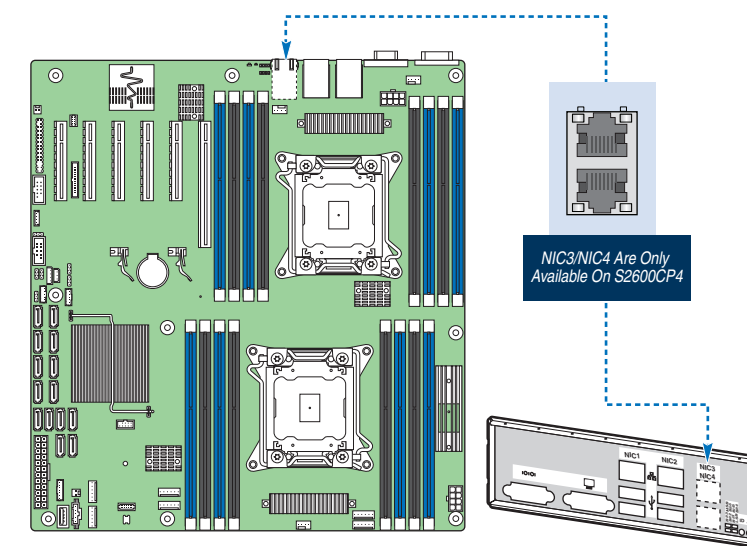


## Fastener Identification Guide



## Intel® Server Board S2600CP with Dual NIC/Quad NIC

Intel® Server Board S2600CP family products offer either Dual NIC ports or Quad NIC ports. Intel® Server Board S2600CP2 boards are equipped with Dual NIC ports, Intel® Server Board S2600CP4 boards are equipped with Quad NIC ports. The difference is shown as below. This Guide uses the Intel® Server Board S2600CP4 as an example.



## 1 Preparing the Chassis

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

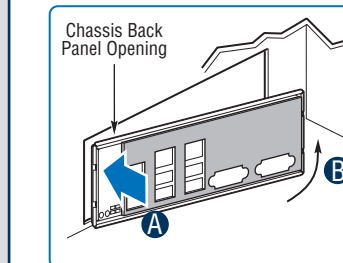
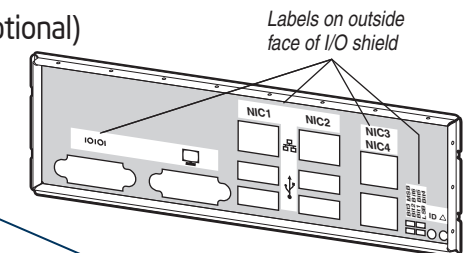
Observe normal ESD (ElectroStatic Discharge) procedures. Place your Intel® Server Chassis and Intel® Server Board on a flat anti-static surface to perform the following integration procedures. Always touch the chassis frame first, before reaching inside to install the server board, make server board connections or install other components.

## 2 Installing the I/O Shield and chassis screw Stand-offs

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

Note: Make sure you install the labels on the correct side of the I/O shield.

Press the labels onto the I/O shield as shown.



Install the I/O shield

I/O Shield should be installed from inside of the chassis. The labels should be visible from the outside of the chassis.

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

Install the chassis screw stand-offs

If installing the server board inside a Intel® Server Chassis P4000M, the stand-off for the server board mounting screws come with chassis must be installed first.

Following EEB standard, the server board has mounting screw holes as indicated by A ... Z.

Please install the chassis stand-offs to the according chassis locations indicated by same marks.

### 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://www.intel.com/support/motherboards/server/sb/cs-010770.htm> for complete safety information.

### Warning

Installation and service of this product should only be performed 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.

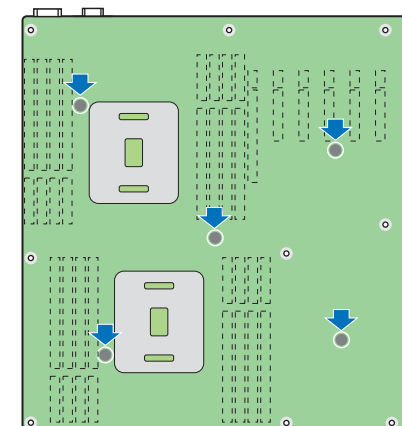
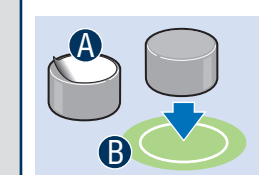
## 3 Install Server Board Bumpers

NOTE: If you are using a non-Intel server chassis, refer to the chassis documentation for bumper installation. If you are using an Intel® Server Chassis, use the chassis bumpers that came with the chassis.

CAUTION: To avoid damage to the server board, do not lay flat with the component side down.

Attach the Bumpers

- Remove the backing from each bumper.
- Press a bumper onto each of the five circles indicated by the solid blue arrows in the figure.



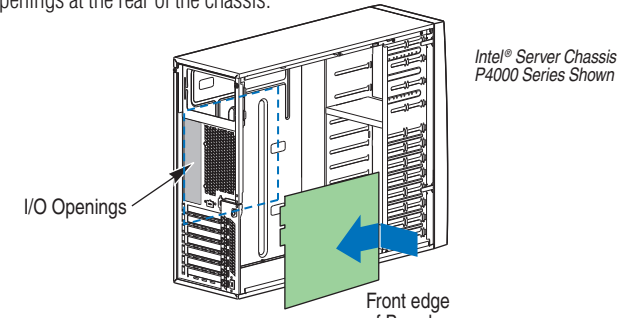
## 4 Install the Server Board

IMPORTANT NOTE: If you are using a non-Intel server chassis, see your chassis documentation for preparatory steps prior to server board installation.

A. Insert the Server Board

Place the board into the chassis, making sure that back panel I/O openings and chassis standoffs align correctly.

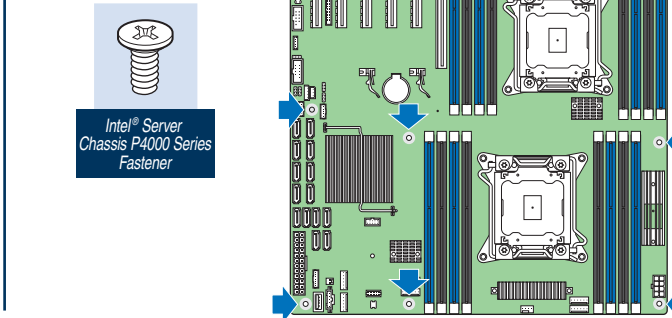
- When using the Intel® Server Chassis P4000 series, insert the front of the board first, then slide the board back so the I/O connectors fit through the I/O openings at the rear of the chassis.



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.

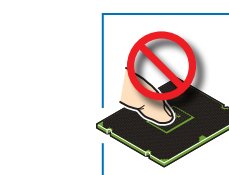
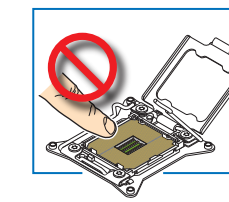
Use screws to attach the board to the chassis at the 9 locations indicated by the solid blue arrows in the figure.



## 5 Install the Processor(s)

A. Open the Socket Lever

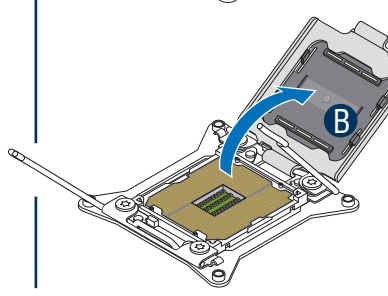
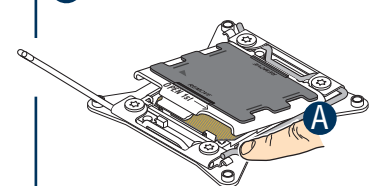
- Push down the lever handle on the OPEN 1st side and away from the socket to release it.
- Repeat the steps to release the lever on the other side.



NOTE: Release the levers in the order as shown.

B. Open the Load Plate

- Press the locking lever slightly to raise the load plate.
- Open the load plate all the way.



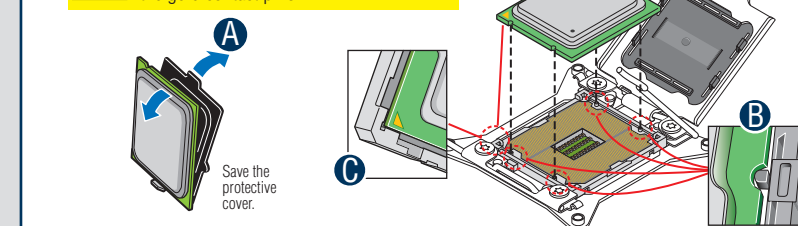
## Install the Processor(s) ... continued

C. Install the Processor

CAUTION: The underside of the processor has components that may damage the socket pins if installed improperly. Processor must align correctly with the socket opening before installation. DO NOT DROP processor into socket!

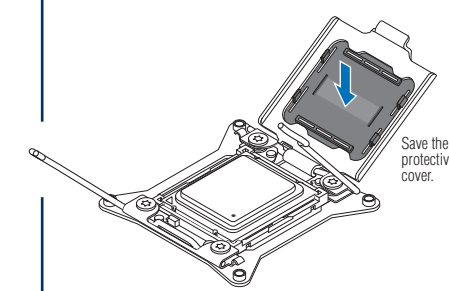
- Take the processor out of the box and remove the protective shipping cover.
- Orient the processor with the socket so that the processor cutouts match the four orientation posts on the socket.
- Note location of gold key at corner of processor.

CAUTION: When unpacking a processor, hold by the edges only to avoid touching the gold contact pins.



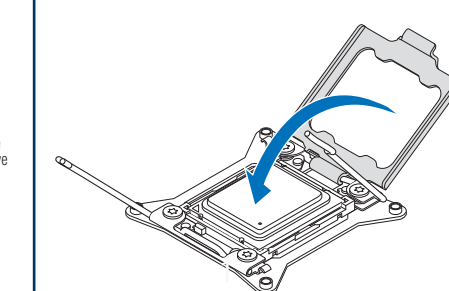
D. Remove the Cover

Press the cover to remove it.



E. Close the Load Plate

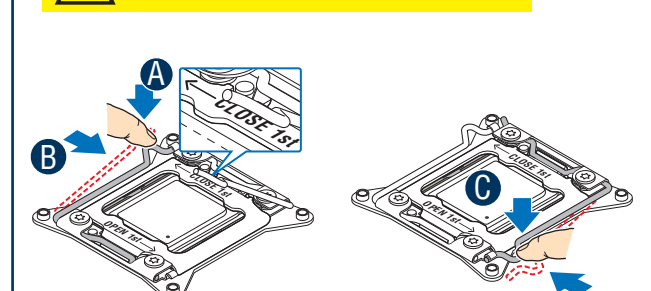
Carefully lower the load plate over the processor.



F. Latch the Locking Lever

- Push down on the locking lever on the CLOSE 1st side.
- Slide the tip of the lever under the notch in the load plate. Make sure the load plate tab engages under the socket lever when fully closed.
- Repeat the steps to latch the locking lever on the other side.

CAUTION: Latch the locking levers in the order shown below.



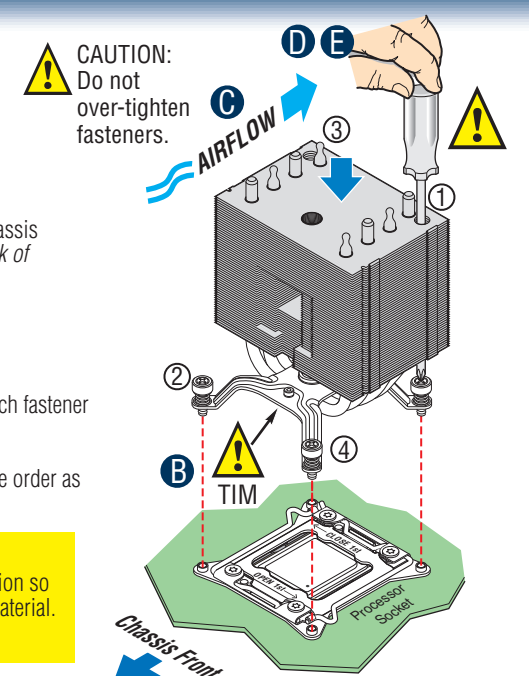
## 6 Install Heat Sink(s)

- Get heat sink from the shipping position.
- Remove the protective film on the TIM if present.
- Align heat sink fins to the front and back of the chassis for correct airflow. Airflow goes from front-to-back of chassis.

The heat sink has four captive fasteners and should be tightened using the following procedure:

- Using a #2 Phillips® screwdriver, finger-tighten each fastener diagonally, according to the numbers shown.
- Securely re-tighten each fastener again in the same order as performed in Step E.

CAUTION: The heat sink has thermal interface material (TIM) on the underside of it. Use caution so that you do not damage the thermal interface material. Use gloves to avoid sharp edges.



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