# Intel® Server Board S1200BTL and S1200BTLRM **Quick Start User's Guide**

Thank you for buying the Intel® Server Board S1200BTL and S1200BTLRM. The following information will help you integrate your new server board into a server chassis. The Intel® Server Board S1200BTL and S1200BTLRM are designed for use with the Intel® Server Chassis P4000 series.

For details on these chassis or to select a third party chassis, please visit <a href="http://www.intel.com/go/serverbuilder">http://www.intel.com/go/serverbuilder</a> 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 S1200BT Service Guide, available on the Intel® Server Deployment Toolkit CD or at http://www.intel.com/support/motherboards/server.

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

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





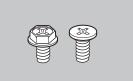
#### Minimum Hardware Requirements

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

- Processor: Intel® Xeon® E3-1200 processors or the 2<sup>nd</sup> Generation Intel® Core™ i3 processors, Intel® Xeon® E3-1200 V2 processors or the 3<sup>rd</sup> Generation Intel® Core™ i3.
- Memory Type: 32 GB maximum with x8 ECC UDIMM (2Gb DRAM).
- Power: Minimum of 350 W with 3A of standby current, which meets the SSI EPS 5V specification.

# Tools Required

### Fastener Identification Guide



## Install Server Board Bumpers

IMPORTANT NOTE: If you are using a non-Intel® server chassis that includes bumpers, refer to the chassis documentation for bumper installation. If you are using a non-Intel® server chassis that does not include bumpers, consult with the chassis vendor to determine if bumpers are required or not. If you are using an Intel® Server Chassis, use the chassis bumpers that came with the chassis.

#### Prepare Server Board

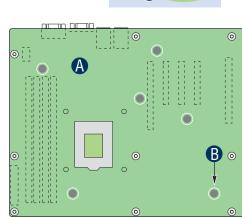
A Rotate board to show bottom-side and hold upright as shown.



B Locate the six circles as shown

#### Attach the Bumpers

- Remove the backing from each
- Press a bumper onto each of



A. Open the Socket Lever B. Open the Load Plate

## 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

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

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

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

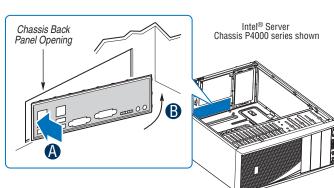
**Note:** Make sure you install the labels on the correct side of the I/O Shield. Note the orientation of the cutouts in the drawing before attaching your labels.

- A Remove the backing from one of the three I/O Shield labels included with your server board.
- Press the label onto the I/O Shield as shown.
- Repeat steps to install the second and third I/O Shield labels.

#### Install the I/O Shield

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

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



face of I/O Shield

#### 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/ .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.

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

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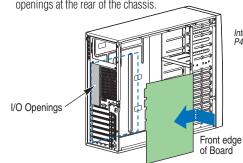
## Install the Server Board

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

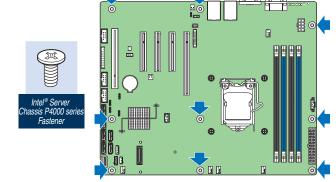
Place the board into the chassis, making sure that back panel I/O openings and chassis standoffs align correctly.

• 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 [4].



## Install the

Processor

Cautions: aold socket wires.











A Push the lever handle down

release it.

and away from the socket to



An active heat sink is required for the Intel®

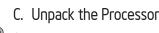
heat sink is shown at right. Rotate the active heat

sink so that the power connector can reach the

of each fastener is rotated perpendicular to the blades of the heat sink as shown.

CPU fan header on the server board.

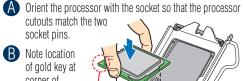
# plate as

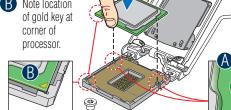


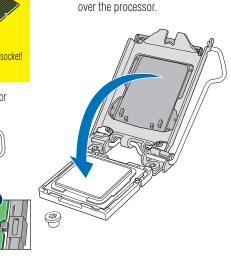


## D. Install the Processor the processor has components that may damage the socket wires if

Processor must align correctly with the socket opening before installation. DO NOT DROP processor into socke **DO NOT DROP** processor into socket!





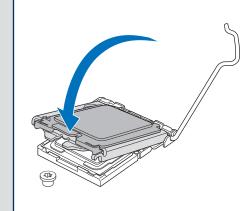


Carefully lower the load plate

#### Install the Processor ...continued

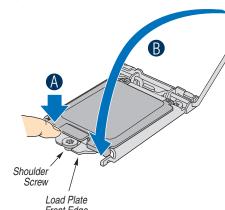
E. Close the Load Plate

Carefully lower the load plate over the processor.

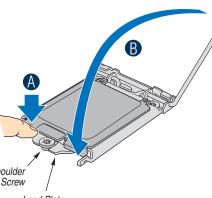


#### F. Engage the Load Plate

A Make sure the front edge of the load plate slides under the shoulder screw as the lever is lowered.



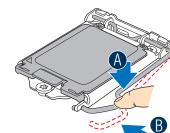
B Close the load plate locking lever.



### G. Latch the Locking Lever

A Push down on the locking lever. CAUTION: DO NOT damage the server board with the tip of the locking lever.

B Slide the tip of the lever under the notch in the load plate. Make sure the lever is securely latched.



## Carefully lift the cover



## H. Remove the Cover

straight up as shown.

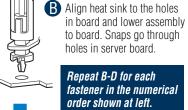


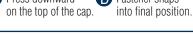
CAUTION: The heat sink has thermal interface material (TIM) on the underside of it. Take caution not to damage the thermal interface material. Use gloves to avoid injuries from sharp edges. Use the following procedure to install an active heat sink to your server board: A Make sure the screwdriver slot at the top

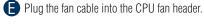




## Install Active Heat Sink(s) Entry Server Chassis P4000 series. A typical active Note: Heatsink styles may vary Fastener snaps Press downward on the top of the cap.







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