

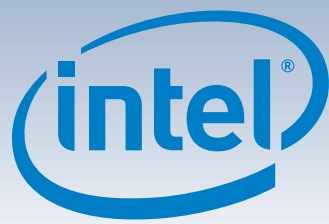
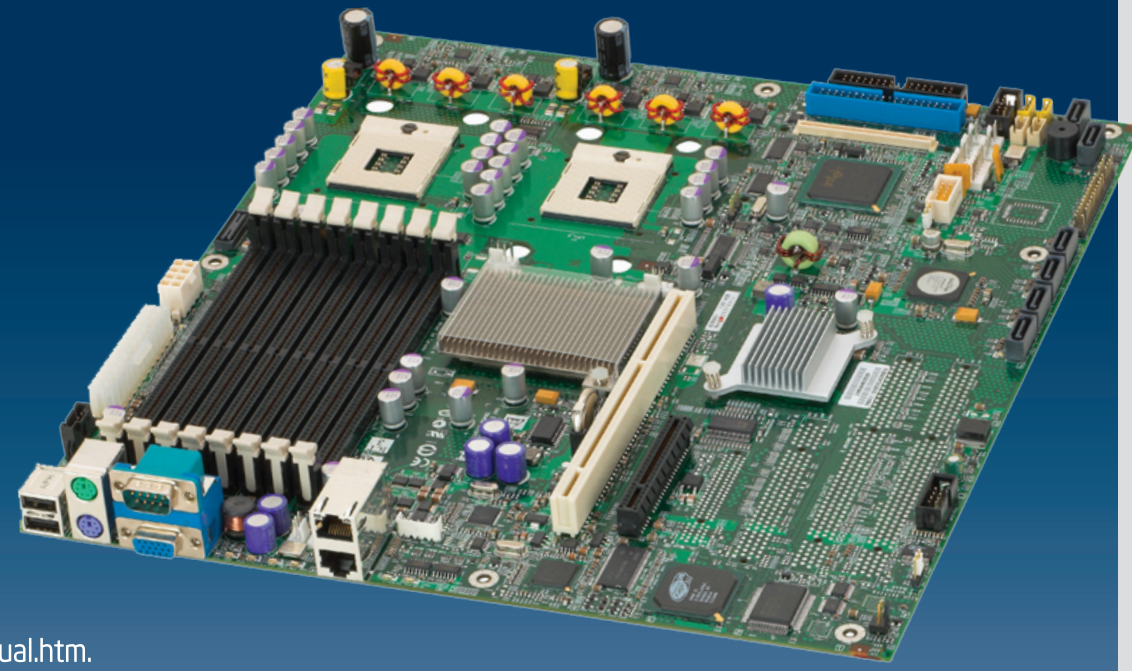
Intel® Server Board SE7520BB2 Quick Start User's Guide

Thank you for buying an Intel® server board. The following information will help you assemble your Intel Server Board SE7520BB2 and install components.

This guide and other supporting documents are located on the web at <http://support.intel.com/support/motherboards/server>

If you are not familiar with ESD (Electrostatic Discharge) procedures used during system integration, please see the Intel Server Board Technical Product Specification, available at <http://support.intel.com/support/motherboards/server/SE7520BB2/manual.htm>.

Read all cautions and warnings before starting your server platform integration.



1 Preparing the Chassis

Observe normal ESD (Electrostatic Discharge) procedures.

Always touch the chassis frame first, before reaching inside to make server board connections or to install components.

See the documentation that came with your chassis for preparatory steps.

2 Insert the Server Board

Place the board into the chassis, making sure that back panel I/O port openings and chassis standoffs align correctly. If the holes in the server board do not match standoffs in your chassis, you may need to install standoffs in the chassis. See your chassis documentation for information.

Note: Before inserting the server board, make sure a standoff is installed at each location surrounding the processor sockets.

3 Attach the Server Board

Attach the board with the screws at the 8 locations indicated by the blue arrows in the figure. Fasteners should have been provided with your server chassis.

4 Install the Processor(s)

Notes and Cautions:

- When unpacking a processor, hold by the edges only to avoid touching the pins.
- This server board has a "zero-insertion force" socket. If processor does not drop easily into socket, make sure lever is in the full-open position.

A. Unlock the Socket

Turn the processor lock to the unlocked position.

B. Install the Processor

Take the processor out of the protective shipping packaging and immediately install it.

- Orient the processor with the socket so that the triangle on the processor cutouts matches the triangle on the socket.
- Set the processor onto the socket.

C. Lock the Processor into Place

Turn the processor lock to the locked position.

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

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.

Caution

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

Tools Required

Phillips® screwdriver
Anti-static wrist strap

Minimum Hardware Requirements

To avoid integration difficulties and possible damage to your system, make sure you have components from each category below. Order codes are in parenthesis after each item.

- Processor(s):**
 - Minimum of one Dual Core Intel® Xeon® Processor LV.
- Heat Sink(s):**
 - Minimum of one 1U passive heat sink.
- Memory:**
 - Minimum of one 256 MB, DDR2-400 MHz registered ECC DIMM.
 - Note: dual-channel mode requires a minimum of two 256 MB DIMMs.
- AC Power:**
 - Minimum of 200 watts with 2 amps of standby current, which meets the SSI EPS 12 V specification.

5 Install Heat Sink(s)

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.

- Align heat sink fins to the front and back of the chassis for correct airflow. Airflow goes from front-to-back of chassis.
- 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 B.

Note: Heat sink styles may vary.

6 Install Memory DIMMs

DDR2 Memory Identification:

This server board supports up to eight DDR2-400 DIMMs. Neither DDR DIMMs nor Fully Buffered DIMMs (FBD memory) are supported on this server board.

DDR2 memory varies in height. DO NOT MIX different DIMM heights and types.

Memory Configurations and Population Order:

To Install DIMMs:

CAUTION: Avoid touching gold contacts when handling or installing DIMMs.

- Open both DIMM socket levers.
- Note location of alignment notch.
- Insert DIMM making sure the connector edge of the DIMM aligns correctly with the slot.
- Push down firmly on the DIMM until it snaps into place and both levers close.

Memory sizing and configuration is supported only for qualified DIMMs approved by Intel. For a list of supported memory, see the tested memory list at <http://support.intel.com/support/motherboards/server/se7520bb2/compat.htm>

D49852-001

Intel is a registered trademark of Intel Corporation or its subsidiaries in the United States and other countries. *Other names and brands may be claimed as the property of others. Copyright © 2006, Intel Corporation. All rights reserved.