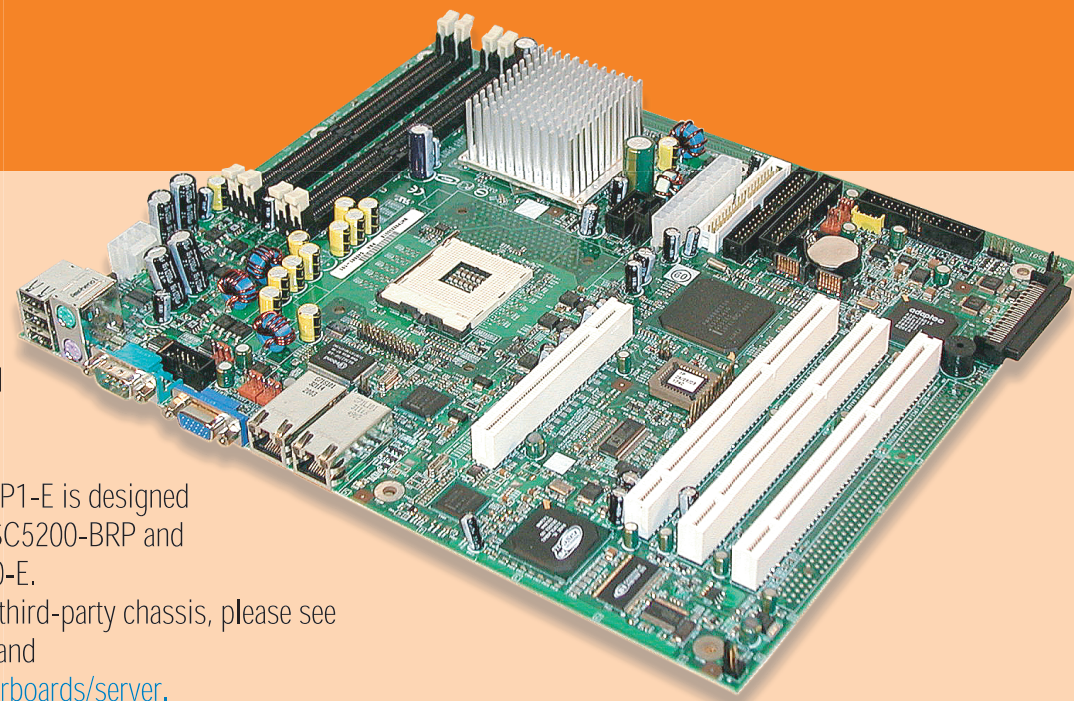# Intel® Entry Server Board SE7210TP1-E
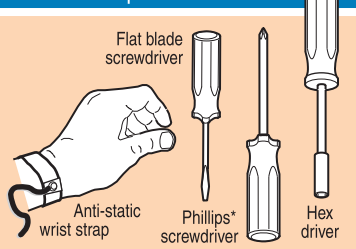# Quick Start User's Guide

intel®

Thank you for buying an Intel®
Server Board. The following
information will help you to
integrate your Intel® Entry Server Board
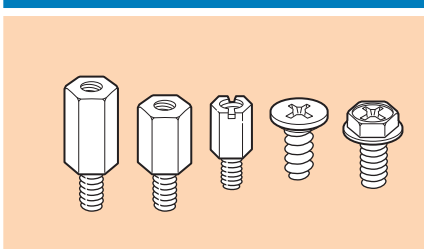SE7210TP1-E into a server chassis.

The Intel® Entry Server Board SE7210TP1-E is designed
for use with the Intel® Server Chassis SC5200-BRP and
the Intel® Entry Server Chassis SC5250-E.
For details on these products or tested third-party chassis, please see
http://www.intel.com/go/serverbuilder and
http://support.intel.com/support/motherboards/server.
User Guides are also available on the CD that accompanied
your Intel® Entry Server Board SE7210TP1-E.

If you are not familiar with ESD (Electrostatic Discharge) procedures used during system integration,
please see the Intel® Entry Server Board SE7210TP1-E User Guide, available on the CD or at
http://support.intel.com/support/motherboards/server/se7210tp1-e\manual.htm.

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Intel® ServerBuilder is your one-stop shop
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  briefs and technical product
  specifications
• Sales tools, such as videos and
  presentations
• Training information, such as the Intel®
  Online Learning Center
• Support Information and much more

[1]Available only to Intel® Channel Program
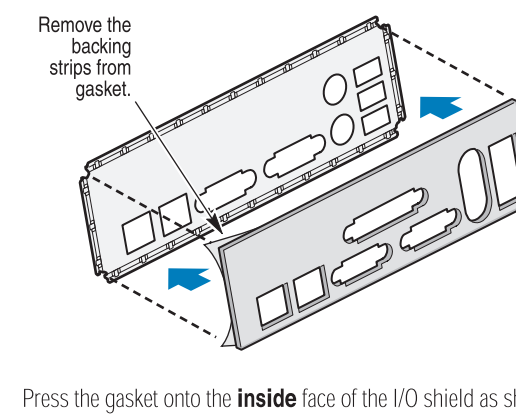 Members, part of the Intel® e-Business Network.

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.

1 Preparing the Chassis

When using an Intel® Server Chassis, begin
with the Quick Start User's Guide that came with
your chassis. Return to this document when
directed by the server chassis Quick Start User's
Guide. If using a non-Intel server chassis, refer
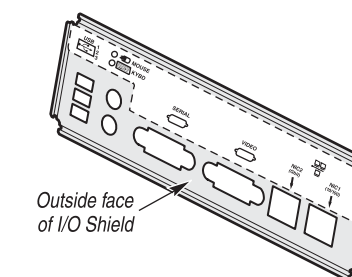to the documentation that came with your
chassis for preparatory steps.

Tools Required

Flat blade screwdriver
Anti-static wrist strap
Phillips* screwdriver
Hex driver

Fastener Identification Guide

Minimum Hardware Requirements

To avoid integration difficulties and possible board damage, your system must
meet the following minimum requirements:
• Processor: One Intel® Pentium® 4 processor. Minimum 2.0 GHz.
• Memory: Minimum of one 128 MB, DDR266/333/400-compliant unbuffered
  SDRAM 184-pin gold DIMM.
• Power: Minimum of 300W with 1.2A of standby current.

2 Installing the I/O Shield and Gasket

A. Attach 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. Attach the Label
to the I/O Shield**

Outside face
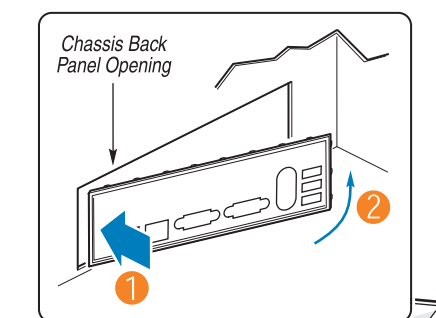of I/O Shield

Remove the backing from the label
included with your server board.

Press the label onto the outside face
of the I/O shield.

C. Install the I/O Shield

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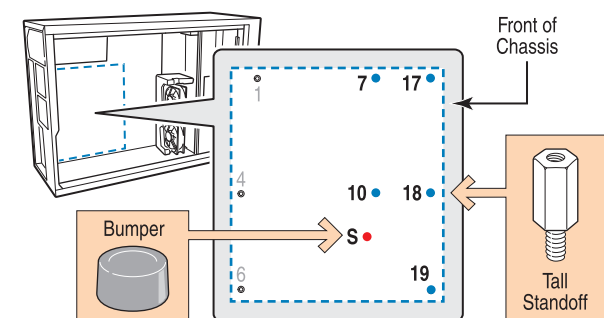from the outside of the chassis.*

Chassis Back
Panel Opening

1 Insert one side edge of
shield as shown.

2 Push shield firmly into
chassis opening until it
clicks into place.

3 Install the Chassis Standoffs and Bumper

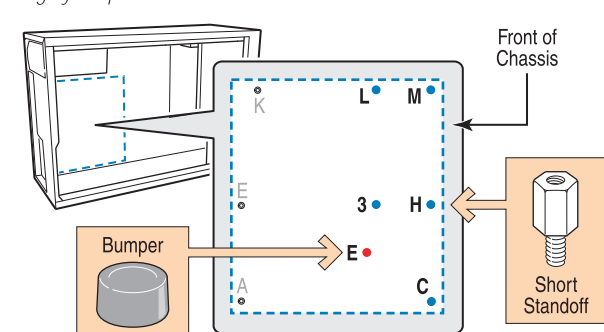Use the standoffs that are included with your chassis.

DO NOT install standoffs at any
position not indicated in this diagram.

For the Intel® Server Chassis SC5200-BRP:
Install standoffs in positions **7**, **10**, **17**, **18** and **19**. *Standoff positions
shown in gray are pre-installed.*
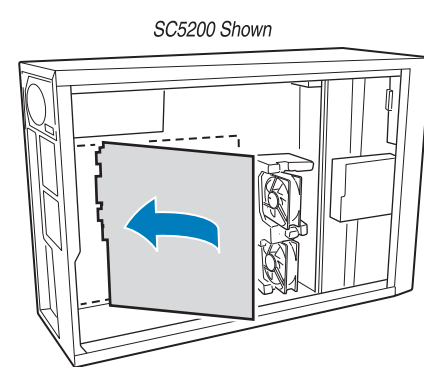
Front of
Chassis

7 17
10 18
S
19

Bumper
Tall Standoff

A self-adhesive rubber bumper is included with your chassis.
Remove the backing paper and place the bumper directly over the chassis
hole marked "**S**".

For the Intel® Entry Server Chassis SC5250-E:
Install standoffs in positions **3**, **C**, **H**, **L** and **M**. *Standoff positions shown
in gray are pre-installed.*

Front of
Chassis

K   L M
3 H
E
C

Bumper
Short Standoff

A self-adhesive rubber bumper is included with your chassis.
Remove the backing paper and place the bumper directly over the chassis
hole marked "**E**". Note: This chassis includes TWO locations identified
as letter "**E**". Refer to the diagram above for the correct bumper location.
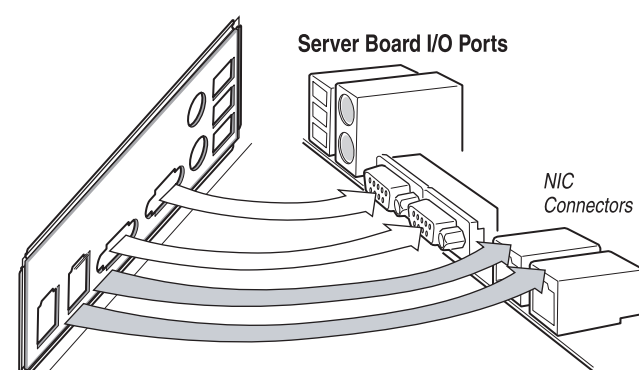
4 Install the Server Board

A. Insert the Server Board

Place the board into the chassis, making sure that back panel I/O shield openings
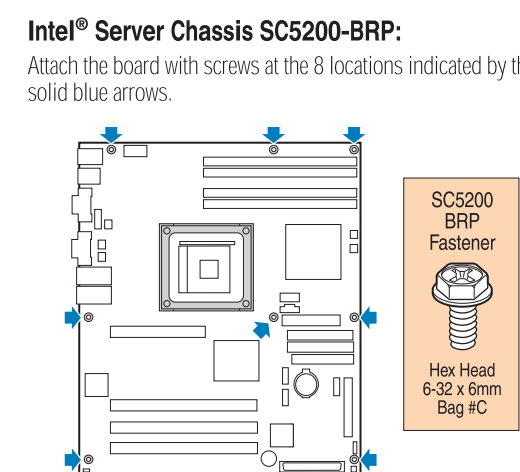and chassis standoffs align correctly. Insert the I/O connector side [back] of the
board first.

SC5200 Shown

B. Align Server Board I/O Ports with Shield

Line up the board in the chassis, making sure the I/O connectors fit through
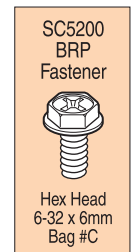the openings in the I/O shield at the rear of the chassis.

Server Board I/O Ports

NIC Connectors

C. Attach the Server Board

Note: The Intel® Server Chassis SC5200-BRP and the Intel® Entry Server
Chassis SC5250-E use different fasteners to attach the server board to
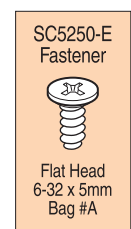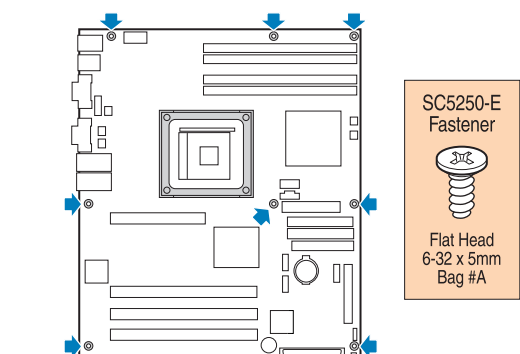the chassis. *Use the fastener indicated for your chassis.*

Intel® Server Chassis SC5200-BRP:
Attach the board with screws at the 8 locations indicated by the
solid blue arrows.

SC5200
BRP
Fastener

Hex Head
6-32 x 6mm
Bag #C

Intel® Entry Server Chassis SC5250-E:
Attach the board with screws at the 8 locations indicated by the
solid blue arrows.

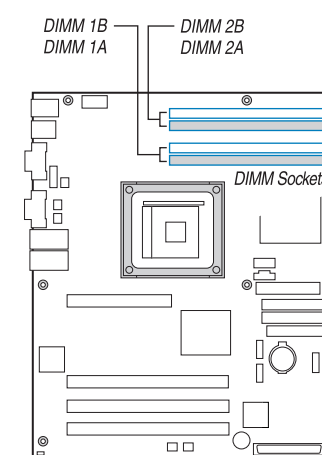SC5250-E
Fastener

Flat Head
6-32 x 5mm
Bag #A

5 Install Memory
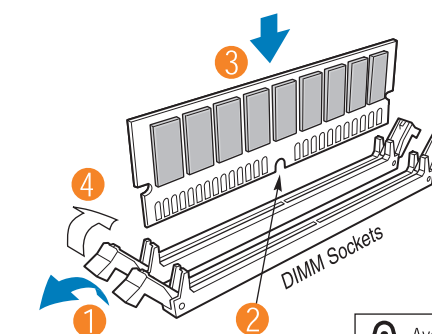
DIMM Memory Modules

One, two or four DIMMs can be installed.
However, for optimum performance and
dual-channel interleave operation, a
minimum of two DIMMs should be installed.

Memory Type: Minimum of one
128MB ECC, DDR266/333/
400-compliant unbuffered SDRAM
184-pin gold DIMM.

• DIMM1A and DIMM2A: Populate these
  two sockets first.
• DIMM1B and DIMM2B: Populate these
  sockets in addition to DIMM1A and
  DIMM2A if four DIMMs are used.

DIMM 1B   DIMM 2B
DIMM 1A   DIMM 2A

DIMM Sockets

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

DIMM Sockets

Avoid touching gold contacts
when handling or installing DIMMs.

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