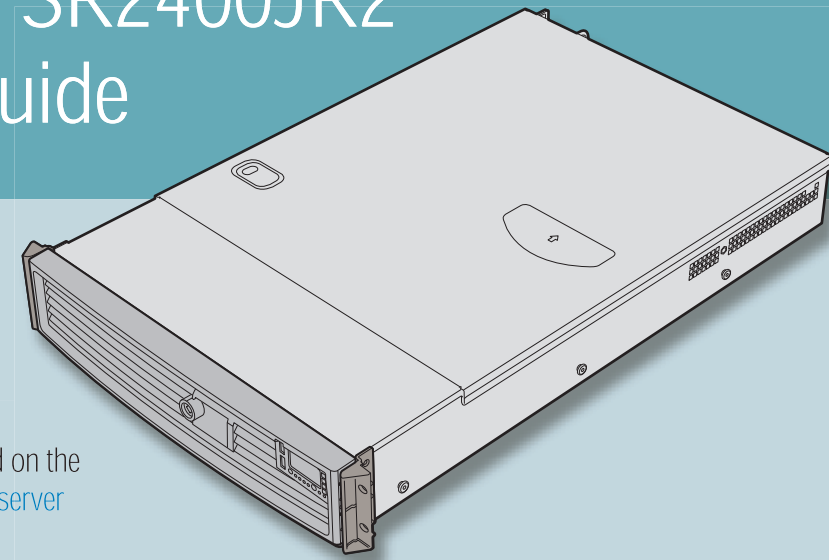# Intel® Server System SR2400JR2
Quick Start User's Guide

Thank you for buying an Intel® Server System. The following information will help you assemble your Intel® Server System and install components.

This guide and other supporting documents are located on the web at http://support.intel.com/support/motherboards/server
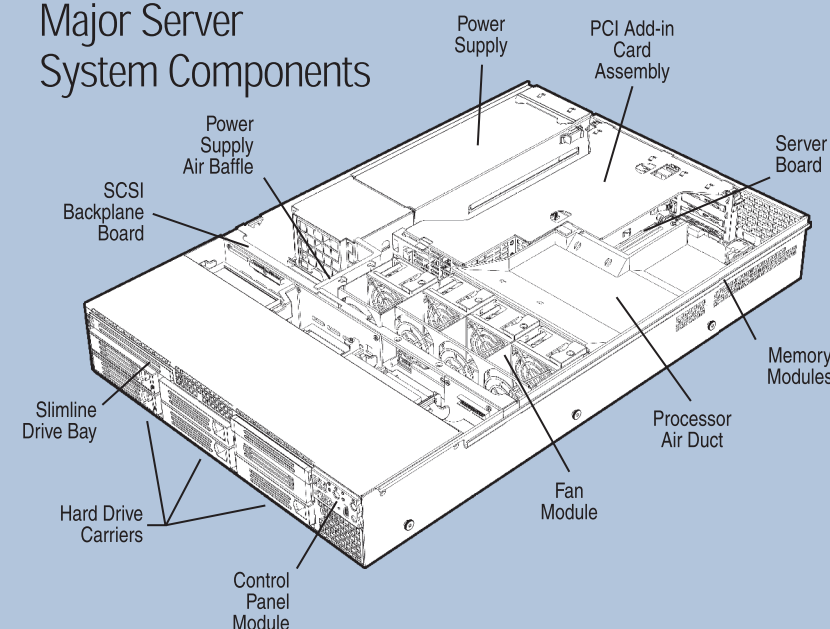
If you are not familiar with ESD (Electrostatic Discharge) procedures used during system integration, please see the Intel® Server System SE7520JR2 User Guide available at http://support.intel.com/support/motherboards/server

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/safecert.htm for complete safety information.
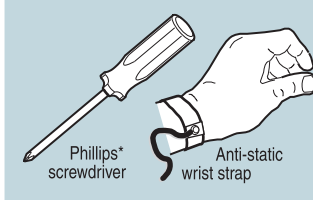
Warning

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.
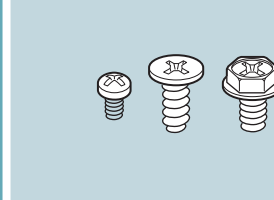
Caution

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

Fastener Identification Guide

Minimum Hardware Requirements

To avoid integration difficulties, make sure you have components from each category below:

- Processor:
  Minimum of one Intel® Xeon™ processor at least 2.8 MHz with an 800 MHz FSB with 2U heat sink.
- Memory Type (depending on version of product purchased):
  - Minimum of one 256 MB, DDR-2 400/533 compliant unbuffered, ECC or non-ECC, SPD SDRAM 240-pin DIMMs.
  - Minimum of one 256 MB, DDR266/DDR333 compliant unbuffered, ECC or non-ECC, SPD SDRAM 184-pin DIMM.

Major Server System Components

Power Supply
PCI Add-in Card Assembly
Power Supply Air Baffle
SCSI Backplane Board
Server Board
Slimline Drive Bay
Memory Modules
Hard Drive Carriers
Processor Air Duct
Fan Module
Control Panel Module

---

1 Remove the Top Cover

1. Remove the shipping screw.
2. Depress the latch.
3. Slide the top cover toward the rear and lift upward.

---

2 Install Redundant Power and Fans (optional)

If you have ordered a redundant power or fan kit, refer to the user guide for the Intel Server Chassis SR2400 for installation instructions.

3 Remove Processor Air Duct

4 Remove Add-in Card Riser Assembly

To remove riser:
1. Pull up on the two retention latches.
2. Lift straight up.

Latches

---

5 Install Memory

You must install the correct DIMMs to avoid possible damage to server board DIMM sockets. See the minimum hardware requirements to determine the correct DIMM type for your server board.

The illustrations below show the correct alignment between the DIMM notch and the server board DIMM socket. DDR and DDR-2 DIMM notches align differently. Before installing your DIMMs, make sure the notch in the DIMM aligns correctly with your server board.

Memory DIMM Identification

Correct   Incorrect

See Mimimum Hardware Requirements box for DIMM requirements.

Notes and Cautions: Bank 1 (DIMM1A and DIMM1B) must be fully populated before populating Bank 2 (DIMM2A and DIMM2B). Memory must be populated in pairs except when a single DIMM is installed in Bank 1.

The DIMM size, speed and vendor must be the same within a bank. However, the DIMM size can vary between banks. For example, Bank 1 can use two 256 MB DIMMs and Bank 2 can use two 512 MB DIMMs.

Note: For additional memory configurations, see the User Guide for the Server Board SE7520JR2.

Bank 2 Sockets
DIMM 2A
DIMM 2B
Bank 3 Sockets
DIMM 3A
DIMM 3B
Bank 1 Sockets
DIMM 1A
DIMM 1B

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.

Avoid touching gold contacts when handling or installing DIMMs.

---

6 Install Processor(s) and Heat Sink(s)

Notes and Cautions

1. If only ONE processor is to be used, it must be installed in the Processor Socket 1 (CPU1), closest to the edge of the server board.
2. Do not mix processors of different types or frequencies.
3. When unpacking a processor, hold by the edges only to avoid touching the pins.
4. This server board has "zero-insertion force" sockets. If processor does not drop easily into socket holes, make sure lever is in the full-open position and verify none of the processor pins is bent.
5. The heat sink has thermal interface material on the underside of it. Use caution so that you do not damage the thermal interface material.

A. Open the Socket Lever

Open the lever all the way as shown.

B. Install the Processor

Align corner mark on the processor to the socket as shown.

C. Close the Socket Lever

D. Install the Heat Sink(s)

Each heat sink has four captive fasteners and must be tightened using the following procedure:

D1. Finger-tighten each fastener diagonally, according to the numbers shown.

D2. Securely re-tighten each fastener again in the same order as performed in step D1.

CAUTION: Do not over-tighten fasteners.

Note: Heatsink styles may differ.

Server Board Cutaway

---

7 Install SCSI Hard Drive(s)

Note: Install drives into the bottom three bays first.

1. Remove the hard drive carrier from the chassis by pressing the green tab and opening the lever.
2. Slide the carrier out of the chassis.
3. Remove the four screws attaching the plastic drive baffle to the drive carrier. Store the baffle for future use.
   Remove the hard drive from its wrapper and place it on an antistatic surface.
   Set any jumpers and/or switches on the drive according to the drive manufacturer's instructions.
4. With the drive circuit-side down, position the connector-end of the drive so that it is facing the rear of the drive carrier.
5. Align the holes in the drive to the holes in the drive carrier and attach it to the carrier with the screws from the plastic drive baffle.
6. With the lever in the fully open position, slide the drive assembly part way into the chassis.

Baffle
Green Tab
Drive Carrier
Connector End of Drive
Attach with four screws.

7. Push the carrier into the chassis until the lever begins to close by itself, then close the lever until it clicks into place.
   Repeat steps 1-7 for any additional hard drives.

CAUTION: Any drive carriers or filler panels removed from the chassis that do not have drives installed in them must be re-installed to ensure proper system cooling.

C78600-001

---

8 Install Slimline Floppy Drive (optional)

1. Push the blue release tab in the direction shown and remove the DVD/CD-ROM tray from the chassis. Store it for future use.
   Remove the floppy drive tray and floppy flex cable from the accessory box.
2. Align the two holes in the floppy drive with the two cutouts in the floppy drive tray.
3. Lower opposite side of floppy drive into tray until it clicks into place.
4. With the tip of your finger, slide the floppy connector cover up from the connector slightly.
5. Insert cable end into connector to engage. Note orientation of the BLUE side of the floppy cable-end during installation. Make sure cable end inserts into connector uniformly.
6. Push connector cover down onto connector until it seats against the connector.

Blue Side of Cable Faces Out
Blue Side of Cable

7. Install floppy drive into slimline drive bay until it clicks into place.
8. Connect the opposite end of the floppy cable to the SCSI backplane by repeating steps 4-6.