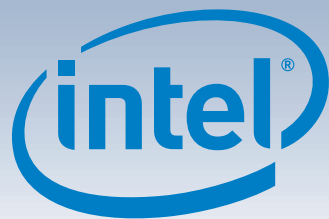


Intel® Server System SC5400RA Quick Start User's Guide

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

If you are not familiar with ESD [Electrostatic Discharge] procedures used during system integration, see the complete ESD procedures described in your User Guide. For more details on Intel® Server Systems, please see: www.intel.com/go/serverbuilder

This guide and other supporting documents are located on the web at <http://support.intel.com/support/motherboards/server/SC5400RA>



Minimum Hardware Requirements

To avoid integration difficulties and possible damage to your system, make sure you have components from each category below.

- Processor:**
 - Minimum of one Multi-Core Intel® Xeon® Processor 5000, 5100, or 5300 sequence.
- Memory:**
 - Minimum of four 512 MB, DDR2 FBDIMM 533/667 MHz compliant 240-pin DIMMs.
- Hard Disk Drives:**
 - Minimum of one SATA hard disk drive.

1 Install Feet (pedestal only)

Note: This step applies to your chassis if configured as a pedestal system. If your plan to configure your chassis as a rackmount system, disregard this step.

- Insert rubber foot into chassis hole.
- Secure foot by inserting pin through the rubber foot.

Note: Repeat above steps until all four feet are installed.

2 Remove the Side Cover

- Remove screw securing side cover.
- Push in latch and remove cover.

3 Remove the Bezel Assembly

Note: The bezel assembly consists of two components, a front door and a sub-bezel.

- Release two plastic tabs.
- Rotate bezel assembly no more than 40-degrees outward. If bezel assembly does not immediately disconnect from the chassis, then remove by tapping the left side of the bezel assembly to disengage the bezel hooks on the right side of the chassis.
- At a 40-degree angle, push bezel assembly away from the chassis.

CAUTION: Do not rotate the bezel assembly more than 40° or you will damage the bezel hooks at the right side of the bezel assembly.

4 Remove the Air Duct

- Unlatch the processor air duct from the chassis by squeezing the blue touch points.

5 Remove the Heat Sink(s)

The heat sink attaches to standoffs installed directly to the chassis. Each heat sink has four captive fasteners.

Using a Phillips screwdriver, loosen each fastener diagonally, according to the number sequence shown.

Lift the heat sink(s) from the system.

Note: Heatsink styles may differ.

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

- Flat Blade screwdriver
- Phillips® screwdriver with at least 6-inch shaft
- Anti-static wrist strap

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6 Install the Processor(s)

Notes and Cautions:

- When opening a socket, DO NOT TOUCH the gold socket pins.
- When unpacking a processor, hold by the edges only to avoid touching the gold contacts.
- If installing only one processor, install it in socket CPU1.

- Open the Socket Lever
 - Push the lever handle down and away from the socket to release it.
 - Pull the lever and open all the way.
- Open the Load Plate
 - Push the rear tab with your finger tip to bring the front end of the load plate up slightly.
 - Open the load plate as shown.
- Remove the Processor Protective Cover
 - Take the processor out of the box and remove the protective shipping cover.
- 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 socket opening before installation. DO NOT DROP processor into socket!

 - Orient the processor with the socket so that the processor cutout matches the socket notch.
 - Set the processor into place.
- Remove Socket Protective Cover
 - Grasp the socket protective cover tab and pull away from the load plate as shown.
 - Remove the socket protective cover and store for future use.
- Close Load Plate and Socket Lever
 - Close the load plate all the way.
 - With your finger, push down on the load plate.
 - Close the socket lever and ensure that the load plate tab engages under the socket lever when fully closed.

7 Install the Memory

- Open the Memory Riser Cage Cover
 - Loosen the captive thumbscrew as shown.
 - Rotate cover upward and open it completely.
- Remove the Memory Riser Cards
 - Pull each memory riser card straight up and remove them from the riser cage.
- Install FBDIMMs on Memory Riser Cards

DDR2 FBDIMM Memory Identification:

This server board supports up to sixteen DDR2-533 or DDR2-667 Fully Buffered DIMMs (FBD memory). DDR2 DIMMs that are not FBD memory are not supported on this server board.

FBDIMM DDR2 memory varies in height. Only low profile DIMMs are supported in this server system.

DIMMs within each group of four must be identical with respect to size, speed, and organization. DIMM capacities can be different between different groups of four. For example, a valid mixed-DIMM configuration can consist of 512 MB DIMMs installed in sockets A1, B1, C1, and D1, and 1 GB DIMMs installed in sockets A2, B2, C2, and D2.

For additional memory information, see the User Guide on the Intel® Server Deployment 2.0 CD that accompanied your server system, or go to: <http://support.intel.com/support/motherboards/server/sc5400ra>

For a list of supported memory, see the tested memory list at: <http://support.intel.com/support/motherboards/server/sc5400ra/compat.htm>

Memory Configurations and Population Order:

Memory Type: Minimum of four 512 MB, 533/667 MHz compliant 240-pin DDR2 FBDIMMs. The FBDIMMs must be populated in multiples of four. First populate sockets A1, B1 (riser card 1), and C1, D1 (riser card 2). Then populate sockets A2, B2 (riser card 1), and C2, D2 (riser card 2), and so on.

To Install DIMMs:

CAUTION: Avoid touching 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.
 - IMPORTANT!** Visually check that each latch is fully closed and correctly engaged with each DIMM edge slot.
- Reinstall Memory Riser Cards
 - Align the memory riser card with the two guides as shown.
 - Push down firmly until the riser card seats in the server board connector.
- Close Top Cover
 - Close memory riser cage cover and tighten captive fastener.