

Intel® Server System SR2600UR Quick Start User's Guide



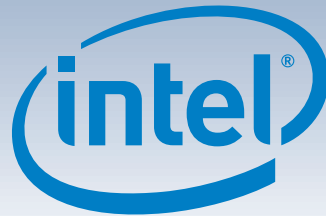
Thank you for buying an Intel® Server System. The following information will help you assemble your Intel® Server System SR2600UR (Product Codes: SR2600URLX, SR2600URBRP, and SR2600URSATA) and install components.

This guide and other supporting documents are located on the web at <http://support.intel.com/support/motherboards/server/s5520ur/>.

If you are not familiar with ESD (Electrostatic Discharge) procedures used during system integration, please see the *Intel® Server System SR2600UR/SR2625UR Service Guide*, available on the Intel® Server Deployment Toolkit CD or at <http://support.intel.com/support/motherboards/server/s5520ur/>.

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® processor 5500 series with 2 MB cache support.

- Memory Type: Minimum of one 512-MB, 240-pin DDR3 800/1066/1333-MT/s DIMMs.

- Hard Disk Drives: SATA/SAS

- Rack Mount Kit (EIA 310-D compliant)

For a complete list of compatible processors, heatsinks, and memory, see <http://support.intel.com/support/motherboards/server/s5520ur/>

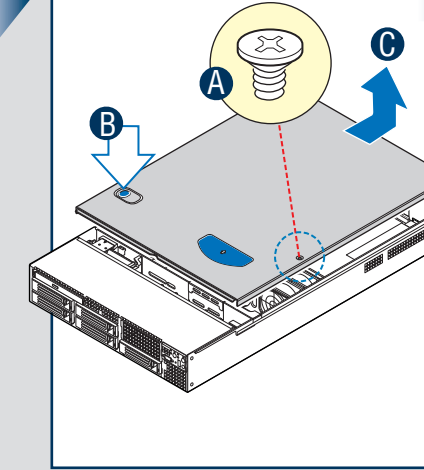
1 Preparing the Chassis

Observe normal ESD (Electrostatic Discharge) procedures.

Place your Intel® Server Chassis on a flat anti-static surface to perform the following integration procedures. Observe ESD procedures before reaching inside to make server board connections or install components.

2 Remove the Top Cover

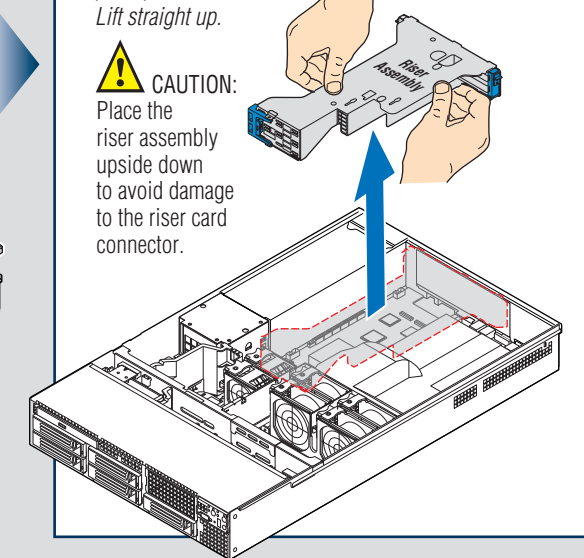
- Remove the security screw.
- Depress the latch.
- Slide cover back and lift upward.



3 Remove Add-in Card Riser Assembly

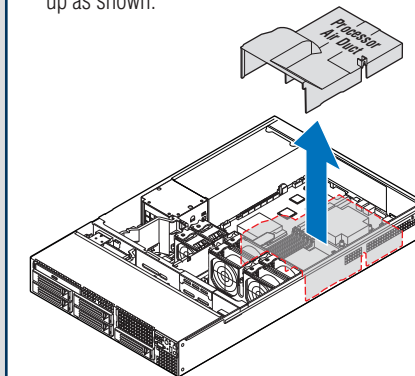
Grasp the riser assembly with both hands and pull up to release it. Lift straight up.

CAUTION: Place the riser assembly upside down to avoid damage to the riser card connector.



4 Remove the Processor Air Duct

Remove processor air duct by lifting straight up as shown.



IMPORTANT!

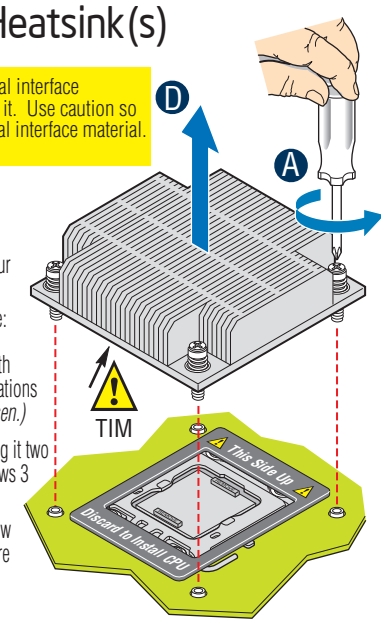
Before proceeding further, check your Intel® Server System for disconnected or loose cables and components that may have occurred during shipping.

5 Remove the Heatsink(s)

CAUTION: The heatsink 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.

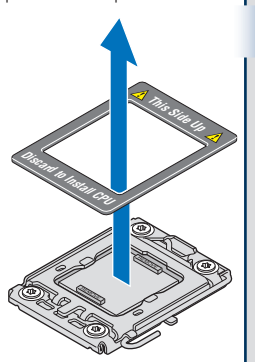
The heatsink is attached to the server board / processor socket with captive fasteners. Using a #2 Phillips® screwdriver, loosen the four screws located on the heatsink corners in a diagonal manner using the following procedure:

- Using a #2 Phillips® screwdriver, start with screw 1 and loosen it by giving it two rotations and stop. (IMPORTANT: Do not fully loosen.)
- Proceed to screw 2 and loosen it by giving it two rotations and stop. Similarly, loosen screws 3 and 4.
- Repeat steps A and B by giving each screw two rotations each time until all screws are loosened.
- Lift the heatsink straight up.



Remove the Spacer

IMPORTANT: This spacer must be removed and discarded before opening the socket to install the processor in Step 6.

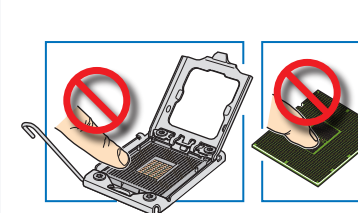


6 Install the Processor(s)

Read all Cautions before proceeding.

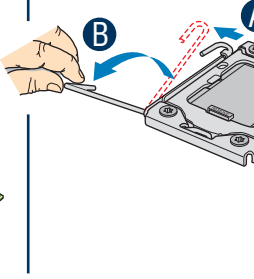
- CAUTION:** When opening a socket, DO NOT TOUCH the gold socket wires.
- CAUTION:** When unpacking a processor, hold by the edges only to avoid touching the gold contact wires.

NOTE: If you are only using one processor on your server board, install the processor on the CPU socket labeled 'CPU 1' on the server board.



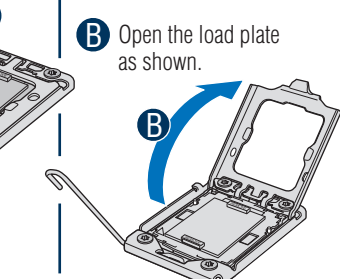
A. Open the Socket Lever

- Push the lever handle down and away from the socket to release it.
- Rotate the lever open all the way.



B. Open the Load Plate

- Push the rear tab with your finger tip to bring the front end of the load plate up slightly.

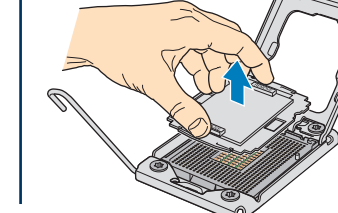


C. Remove the Socket Protective Cover

- Grasp the socket protective cover by the two tabs and carefully lift straight up.

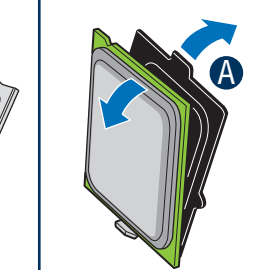
CAUTION: To avoid damage, DO NOT DROP the cover onto the socket wires or components.

Save the protective cover for future use.



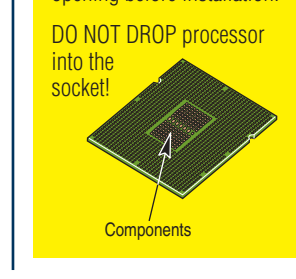
D. Remove the Processor Protective Cover

- Take the processor out of the box and remove the protective shipping cover.

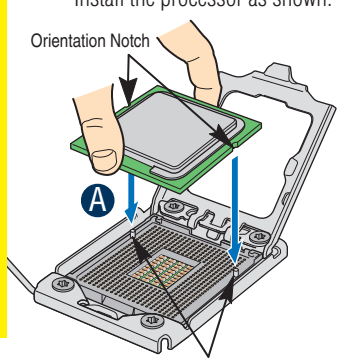


E. Install the Processor

CAUTION: The underside of the processor has components that may damage the socket wires if installed improperly. Processor must align correctly with the socket opening before installation. DO NOT DROP processor into the socket!

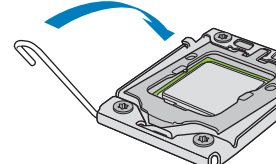


- Orient the processor with the socket such that the orientation notches on the processor align with the two orientation posts on the socket. Install the processor as shown.



F. Close Load Plate and Socket Lever

- Close the load plate all the way as shown.
- Close the socket lever and ensure that the load plate tab engages under the socket lever when fully closed.



7 Install the Heatsink(s)

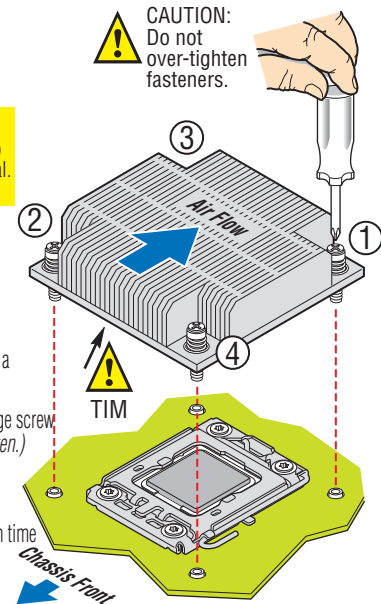
IMPORTANT NOTE: This Intel® Server Chassis requires passive heatsinks.

CAUTION: The heatsink 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.

- Remove the protective film on the TIM if present.
- Align heatsink fins to the front and back of the chassis for correct airflow. Airflow goes from front-to-back of chassis.

Each heatsink has four captive fasteners and should be tightened in a diagonal manner using the following procedure:

- Using a #2 Phillips® screwdriver, start with screw 1 and engage screw threads by giving it two rotations and stop. (Do not fully tighten.)
- Proceed to screw 2 and engage screw threads by giving it two rotations and stop. Similarly, engage screws 3 and 4.
- Repeat steps C and D by giving each screw two rotations each time until each screw is lightly tightened up to a maximum of 8 inch-lbs torque. Note: Heatsink styles may vary.



8 Install Memory DIMMs

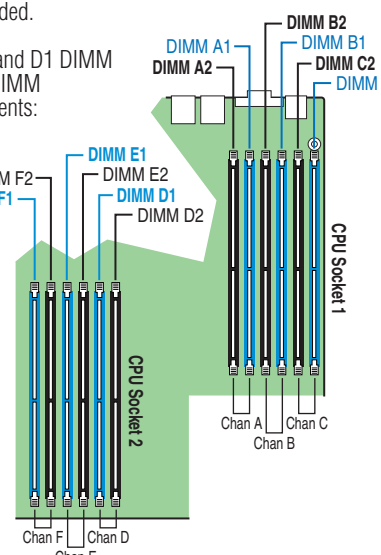
Memory Configurations and Population Order:

For best performance, a minimum of three DIMMs per CPU is recommended. In a single-processor configuration, always populate A1 DIMM first. In a dual-processor configuration, always populate A1 DIMM first for CPU 1 and D1 DIMM first for CPU 2. In order to maintain adequate thermal levels, DIMMs or DIMM blanks must be installed in the DIMM slots as per the following requirements:

- If you have only one processor installed, all CPU 1 DIMM slots must either have a DIMM or DIMM blank installed. You may either leave the CPU 2 DIMM slots empty or store extra DIMMs in the blue DIMM slots.
- If you have both processors installed, all blue DIMM slots in CPU 1 and CPU 2 must either have a DIMM or a DIMM blank installed. You may store extra DIMM blanks in any of the unused CPU 1 DIMM slots.

Note: For additional memory configurations, see the Service Guide on the Intel® Server Deployment Toolkit CD that accompanied your Intel® Server System SR2600UR, or go to: <http://support.intel.com/support/motherboards/server/s5520ur/>

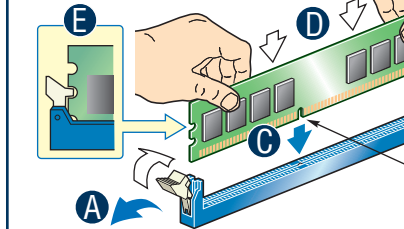
Memory sizing and configuration is supported only for qualified DIMMs approved by Intel. For a list of supported memory, use the Server Configurator Tool available at: <http://serverconfigurator.intel.com/default.aspx>



To Install DIMMs:

CAUTION: Avoid touching contacts when handling or installing DIMMs.

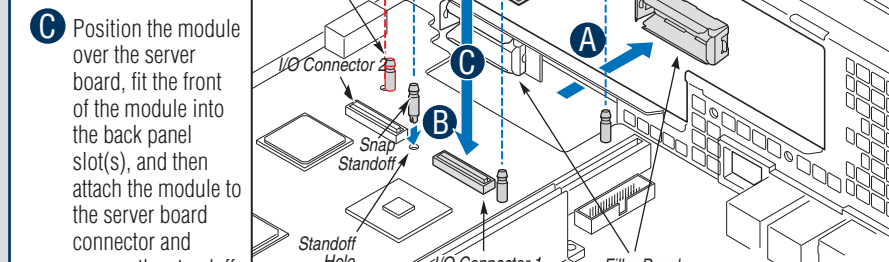
- Open both DIMM socket levers.
- Note location of alignment notch.
- Insert DIMM making sure the connector edge of the DIMM aligns correctly with the slot.
- Push down firmly on the DIMM until it snaps into place and both levers close.
- IMPORTANT!** Visually check that each latch is fully closed and correctly engaged with each DIMM edge slot.



9 Install I/O Expansion Module (optional)

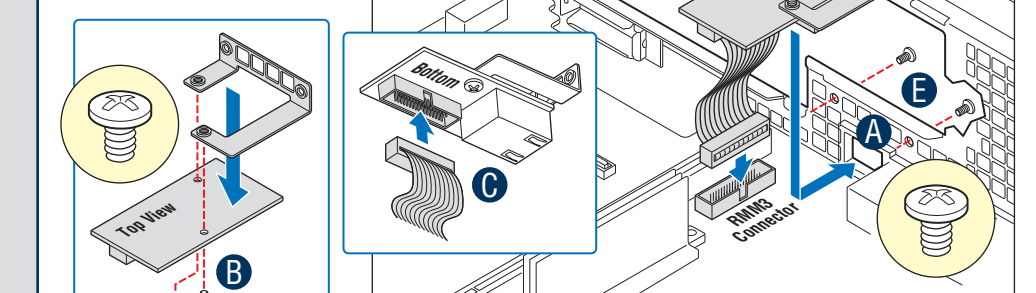
- Squeeze the sides of the filler panel(s) to disengage it from the server system back panel and remove it. Note: If you are installing an I/O expansion module that uses only one slot, remove the filler panel only from the slot shown so that the module can be attached to I/O Connector 1; do not remove the filler panel from the other slot.
- Install the standoffs to the server board by pressing into the holes as shown.

Note: For the 1-socket module, install three standoffs as shown in gray. For the 2-socket module, also install the fourth standoff as shown in red.



10 Install Intel® Remote Management Module 3 (optional)

- Squeeze the sides of the RMM3 filler panel to disengage it from the server system back panel and remove it.
- Attach the RMM3 module bracket to the RMM3 module with two screws as shown.
- Connect one end of the cable (labeled 'RMM3') to the RMM3 connector on the RMM3 module. Note that cable connectors are keyed and can only go in one way.
- Connect the opposite end of the cable (labeled 'server board') to the RMM3 connector on the server board.
- Attach the module bracket to the chassis with two screws as shown. Note that screws install from the back of the chassis.



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.

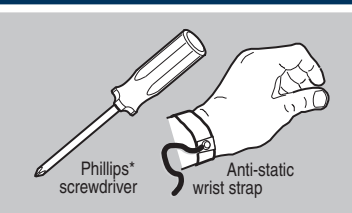
Warning

Installation and service of this product should only be performed 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



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 © 2010, Intel Corporation. All rights reserved.

E52452-006

