

11 Install Active System Components...for a Passive System, skip this step

Install Intel® RAID Activation Key and RAID Mini DIMM (optional)

A Insert the Intel® RAID Activation Key into the midplane board socket as shown. *Make sure the key snaps into the socket.*

B Open RAID mini DIMM socket levers and insert connector edge of mini DIMM into socket until levers close and snap into place.

Check RAID BBU Battery Connection

A The RAID BBU has an internal battery power cable. Open the BBU case lid as shown.

B If the battery power cable is not connected, connect the cable now. Close and latch the BBU case lid.

Install RAID Battery Backup Unit (BBU) (optional)

A The RAID BBU has two hooks on the underside. Align these hooks with the matching chassis tabs, then slide toward the power supply to lock into place.

B Connect the power cable between the BBU and the midplane board as shown.

Note: Backplane not shown for clarity.

12 Install Hard Drives/Carriers

A Remove the drive carrier by pressing the green latch to unlock.

B Pull out on the black lever and slide the carrier out.

C Remove the plastic air baffle and save for future use.

D Install the hard disk drive as shown.

E Install hard disk drive assembly into the chassis opening.

Note: Carrier lever must be held in the FULLY OPEN position to install into the chassis. Slide carrier into chassis until it clicks, then close the lever.

CAUTION: If you install less than eight drives or devices, empty drive bays must be occupied by carriers with baffles or with a filler panel provided for drive locations 6 and 7 to maintain proper system cooling.

Hard Drive Numbering Diagram

Repeat these steps for each installed hard drive

13 Install Optical Device

IMPORTANT NOTE: If you do not install a device at this location, install the optical device bay filler panel shown below. *This is required to maintain proper system cooling.*

A Install the plastic guide onto the back of the drive and attach with two screws as shown.

B Insert the optical drive into chassis opening and push all the way until it stops.

14 Install Additional Drives (optional)

See the Service Guide for instructions on installing an optional tape drive, or two additional 2.5 inch fixed drives.

15 Install Second Power Supply Module (optional)

A Use the 'finger hole' to remove the filler panel.

B Insert the power supply module into the power supply cage and push all the way until it clicks into place.

To remove a power supply module, push the green latch in the direction shown while pulling out of the system by the handle.

16 Install Processor Air Duct

Install processor air duct as shown making sure the front edge of the duct contacts the fan module.

Use care to avoid pinching system cables.

17 Replacing the Riser Card (optional)

Remove the riser card

A Push back on the blue riser lever.

B While holding the lever back, slide the card firmly in the direction shown to disengage the riser pins and remove the riser card.

Install the replacement riser card

C Push back and hold the blue lever in that position.

D Place the riser card onto the retention pins.

E Slide the riser card in the direction shown to lock it into place.

Release the blue riser lever.

18 Install Add-in Card(s)

Full-height Side of PCI Riser Shown

A Open rear retention clip by pushing blue slide upward and rotating clip fully open.

B Open front retention clip by pushing the blue latch in the direction shown and rotating clip 90 degrees outward.

C Remove filler panel from the selected add-in card slot.

D Insert add-in card until it seats in the riser connector.

E Close both retention clips. *Note: Make sure that all empty add-in card slots have filler panels installed.*

CAUTION: Observe normal ESD precautions when installing add-in cards.

19 Install PCI Add-in Card Riser Assembly

To install the riser assembly:

A Position the riser card edge connector over the server board riser socket and align the three hooks in the riser with the slots at the back of the chassis.

B Press down uniformly until the three hooks on the rear of the PCI riser assembly engage the chassis back panel slots.

The riser card will seat into the matching socket on the server board.

Note: The PCI riser assembly includes an intrusion switch that engages the system cover. Do not use the intrusion header located on the server board.

20 Install Intel® Local Control Panel (optional)

Remove Standard Control Panel

A Disconnect the two cables from the back side of the backplane.

B Press the blue locking lever and push forward to release the control panel from the chassis.

C Slide the standard control panel and cables out of the chassis.

Install Local Control Panel

D Connect the USB and data cables to the local control panel as shown.

E Feed local control panel cables into chassis opening.

F Slide control panel fully into chassis until the locking lever engages.

G Connect the two cables to the USB and control panel connectors on the back side of the backplane as shown.

21 Install Rack Handles

Note: Rack handles are required to install the bezel. For detailed instructions, see the Service Guide.

22 Install Bezel (optional)

Select the bezel that matches your control panel and install as shown.

Standard Control Panel Bezel

Intel® Local Control Panel Bezel

23 Install Top Cover

A Place top cover onto the chassis and slide forward to engage recessed edge at front of cover.

B Install security screw. *Note that security screw re-installation is optional.*

24 Finishing Up

Before installing your operating system, you must finish your system installation, make I/O connections, and plug in AC power.

- Make sure the system top cover is installed.
- Install the server into the rack using the instructions provided with the rack mounting kit.
- Connect your USB keyboard/mouse, video and other I/O cables/devices as shown. *Then connect the AC power cord(s).*

CAUTION: This unit must be operated with the TOP COVER installed to ensure proper cooling.

25 Software • BIOS, Drivers, and Operating System Installation

A. Update the System Software:

- Boot from the Intel® Server Deployment Toolkit CD.
- Use the Wizard to access the latest versions on the Internet and update the BIOS, firmware, FRUSDRs, and Intel® RMM3. *Note: You may also use downloaded files on a USB key.*

B. Configure your RAID Controller: If using a RAID card, use the instructions provided with the RAID controller. If using on-board RAID, you must activate RAID in the BIOS setup. See the Intel® Server Board S5520UR Technical Product Specification for more information.

C. Install your Operating System: Use the instructions provided with the RAID controller and with the operating system.

D. Install Operating System Drivers: With the operating system running, insert the Intel® Server Deployment Toolkit CD. If using a Microsoft Windows® operating system, the Express Installer will autoun and allow you to select the appropriate drivers to install. On other operating systems, browse the CD folders to locate and install the driver files.

E. Install Intel® System Management Software (optional): Download the latest version of the Intel® System Management Software from <http://www.intel.com/go/servermanagement> and use the instructions provided at that link to install the software.

Reference

Front Panel Controls and Indicators

Intel® Local Control Panel

A. USB 1.1 Port E. Menu Control Button - Left
 B. LCD Display F. Menu Control Button - Enter
 C. Menu Control Button - Up G. ID LED
 D. Menu Control Button - Down H. Power/Sleep LED

Standard Control Panel

A. NIC2 Activity LED E. Hard Drive Activity LED H. System ID Button
 B. NIC1 Activity LED F. Status LED I. Reset Button
 C. Power/Sleep Button G. System ID LED J. USB 1.1 Port
 D. Power/Sleep LED K. MMI (recessed) Button
 L. Video

Optional Accessories and Order Codes	Intel® Local Control Panel Module	AXXLCPRACK2
Tool-less Rail Kit	Silimline DVD-ROM/CD-ROM Drive	AXXSATADVDR0M
Cable Management Arm	750-W Power Supply	AXX750WPS
Basic Slide Rail Kit	Fixed 2.5 inch Drive Mounting Kit	ASR2600FIXDRV
Fixed Rack Brackets	SAS/SATA Tape Drive Mounting Kit	ASR2500SATAPE
Bezel for Standard Control Panel	Infiniband® I/O Expansion Module	AXXGBIOMOD
Bezel for Intel® Local Control Panel	Dual Gigabit I/O Expansion Module	AXXGBIOMOD
RAID Activation Key	SAS I/O Expansion Module	AXXSASIOMOD
RAID Mini DIMM	Quad-Port Gigabit I/O Expansion Module	AXX4GBIOMOD2
Intel® Remote Management Module 3	10 Gigabit I/O Expansion Module	AXX10GBIOMOD

A complete list of accessories and spares can be found at: <http://support.intel.com/support/motherboards/server/s5520ur/>

Intel® Server Board S5520UR Component Layout

See your Intel® Server System SR2600UR/SR2625UR Service Guide for expanded component and connection information.

Available Documents	Content
Technical Product Specification	In-depth technical information
Spares, Parts List, and Configuration Guide	Supported accessories and spares list
Server Configurator Tool	Tested peripherals and operating systems list
Software and Drivers	Supported processors list
	Up-to-date firmware, driver, and utility information

These documents can be found at: <http://support.intel.com/support/motherboards/server/s5520ur/>