

11 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

Note: Only drive locations 0-4 support hot-swap SATA drives. Location 5 requires fixed drive(s).

A Remove fixed drive carrier(s) by pushing the green latch towards the lever, opening the lever all the way, and then pulling the drive carrier out of the system.

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

C Install the hard disk drive and attach with four screws.

Note: Carrier lever must be held in the FULLY OPEN position to install into the chassis.

D Slide carrier into chassis until it stops, then close the lever until it snaps shut.

Hard Drive Numbering Diagram

Repeat these steps for each installed hard drive

CAUTIONS: If you install less than five drives, empty drive bays must be occupied by carriers with baffles to maintain proper system cooling. To avoid possible damage to your chassis, use only carriers that came with your server system.

13 Install Optical Device (optional)

1. Remove the Empty Tray

A Remove the empty tray and screw from the accessory kit box.

2. Install the Interposer Board

A Plug the interposer board connector into the matching connector on the back of the optical device.

3. Install Device into the Tray

A Align the two holes on the left edge of the optical device with the two metal tabs in the tray.

B Lower opposite side of optical device into tray until it clicks into place.

4. Secure Interposer Board to Device Tray

A Make sure interposer board fits onto alignment pin on device tray.

B Attach with screw as shown.

5. Install Optical Device Tray Assembly into the Chassis

A Insert optical device tray assembly into the system.

B Verify that the back of the interposer board plugs into the matching socket on the backplane and the blue release lever on the tray locks into place.

CAUTION: To maintain proper system cooling, a filler blank must be installed if you do not install a device at this location.

14 Install Additional Drives (optional)

See the *Service Guide* for instructions on installing the optional sixth hard disk drive, tape drive, or two 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.

Handle PS Latch 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 riser 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.

Note: Add-in card install sequence for low-profile add-in cards on opposite side of PCI riser is the same.

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

E Close rear retention clip. Push the blue slide upward and press the clip to lock it into place.

F Close front retention clip and push the blue latch forward to lock it into place.

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 handle located on the server board.

20 Install Intel® Local Control Panel (optional)

Remove Standard Control Panel Module

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

B Slide the standard control panel out of the chassis.

Slide Intel® Local Control Panel into chassis.

D Make sure the control panel engages the backplane connector.

E Make sure the blue locking lever snaps into place.

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® RMM3s.

Note: You can 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.

Front Panel Controls and Indicators

Intel® Local Control Panel

A. USB 1.1 Port
B. LCD Display
C. Menu Control Button - Up
D. Menu Control Button - Down
E. Menu Control Button - Left
F. Menu Control Button - Enter
G. ID LED
H. Power/Sleep LED
I. Power/Sleep Button
J. System Status LED
K. NIC 2 Activity LED
L. NIC 1 Activity LED
M. HDD Activity LED
N. Reset Button
O. USB 1.1 Port

Standard Control Panel

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

Optional Accessories and Order Codes

Tool-less Rail Kit	AXXHERAIL2	Slimline DVD-ROM/CD-ROM Drive	AXXSATADVROM
Cable Management Arm	AXXRACKARM2	Sixth SAS/SATA Drive Mounting Kit	ASR2500SIXDRV
Basic Slide Rail Kit	AXXBASRAIL13	Fixed 2.5 inch Drive Mounting Kit	ASR2600FXDRV
Fixed Rack Brackets	AXXRACKETS	SAS/SATA Tape Drive Mounting Kit	ASR2500SATAPE
Bezel for Standard Control Panel	ADRBZBLACK	Infimband™ I/O Expansion Module	AXXBIBIOMOD
Bezel for Intel® Local Control Panel	ADRLCDBEZEL	Dual Gigabit I/O Expansion Module	AXXBGIOMOD
RAID Activation Key	AXXRKASAS2	SAS I/O Expansion Module	AXXSASIOMOD
RAID Mini DIMM	AXXMINDIMM512	Quad-Port Gigabit I/O Expansion Module	AXX4GBIOMOD2
750-W Power Supply	AXX750WPS	10 Gigabit I/O Expansion Module	AXX10GBIOMOD
Intel® Local Control Panel Module	ASR2600LCP	Intel® Remote Management Module 3	AXXRM3

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	In-depth technical information
Document/Tool	Technical Product Specification
	Spares, Parts List, and Configuration Guide
	Tested peripherals and operating systems list
	Tested memory list
	Supported processors list
	Server Configurator Tool
	Software and Drivers

A link to the above documents, Server Configurator Tool, and the Software and Drivers web page can be found at: <http://support.intel.com/support/motherboards/server/s5520ur/>