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Install Hot-swap Drive System Components ... for a Fixed Drive System, go to Step 12

Install the Backplane

- Note: Both the active and passive backplanes install the same.
- Position backplane over six chassis standoffs. Make sure that all the cables are seated over the backplane.
 - Engage standoffs and slide the backplane in the direction shown to lock into place.
 - Tighten blue thumbscrew.

Install the Bridge Board

- Open the backplane bridge board connector retention clip.
- Install bridge board making sure the connector edges on both sides align correctly with the slots, and by pressing down on both sides simultaneously. Close the retention clips.

Make Cable Connections

- Route the five fan module cables over the fan guard and connect to the corresponding connectors on the backplane.
- Connect the USB and data cables from the control panel to the USB and front panel connectors on the backplane.
- Connect the power supply cable to the power connector located on the backplane.
- Passive Backplane Only: Connect the hard drive SATA cables from the server board to the corresponding SATA connectors on the backplane.

Install Hot-swap Hard Drives

- Remove hot-swap drive carrier(s) by pushing green latch towards the lever, opening the lever all the way, and then pulling the drive carrier out of the system.
 - Remove the plastic air baffle and save for future use.
 - Install the hard disk drive and attach with four screws.
 - With the carrier lever in the OPEN position, slide drive assembly into chassis until it stops, then close the lever until it snaps shut.
- Repeat these steps for each installed hard drive.
- CAUTION: If you install less than three drives or devices, 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.

Install Air Baffle

- The baffle is held in place by two snap-standoffs on the chassis floor.
- Route all applicable cables (see the 'Cabling Legend' below) through the baffle notches and snap air baffle into place.
- Cabling Legend:
- Main Power Cable
 - CPU Power Cable
 - Power Signal Cable
 - Optical Drive Data Cable
 - SATA 0-2 HDD Data Cables (passive backplane only)
- Note: Front tab of air baffle must fit under the drive bay cover prior to lowering into chassis standoffs to ensure a proper fit.

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Install Fixed Drive System Components...for a Hot-swap Drive System, go to Step 11

Install Fixed Hard Drives/Carriers

- Remove fixed drive carrier(s) by pressing blue carrier latch from inside the chassis, pushing the drive carrier forward, and sliding it out of the system.
 - Remove the Plastic Air Baffle.
 - Install the hard disk drive and attach with four screws.
 - Slide each carrier into a drive opening until the blue carrier latch clicks into place.
- Repeat these steps for each installed hard drive.
- CAUTIONS: If you install less than three 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.

Install Hard Drive Cables

- Connect SATA data cable(s) to server board as shown.
 - Connect opposite end of SATA data cable(s) to hard drive(s) as shown ... see detail below.
 - Connect the SATA fixed drive power connectors to each hard drive as shown ... see detail.
- Cable Legend
- BLUE indicates Data Cable
 - RED indicates Power Cable

Install Air Baffle

- The baffle is held in place by two standoffs on the chassis floor.
- Route all applicable cables (see below) through the baffle notches and snap air baffle into place.
- Cabling Legend:
- Main Power Cable
 - CPU Power Cable
 - Power Signal Cable
 - Optical Drive Data Cable
 - SATA 0-2 HDD Data Cables
 - SATA 0-2 HDD Power Cables
- Note: Front tab of air baffle must fit under the drive bay cover prior to lowering into chassis standoffs to ensure a proper fit.

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Install SATA Optical Device (optional)

- Remove the Empty Tray
 - Remove the empty tray from the accessory kit box.

CAUTION: To maintain proper system cooling, a filler blank must be installed if you do not install a device at this location.
- Install Device into the Tray
 - Align the two holes on the left edge of the optical device with the two metal tabs in the tray.
 - Lower opposite side of optical device into the tray until it clicks into place.
- Install Optical Device Tray Assembly into the Chassis
 - Pull the power and data cables through the front of the chassis opening.
 - Connect the cables as shown.
 - From the back side of the device bay, pull the cables back into the chassis opening as you insert the device.
 - Verify that the blue release lever on the tray locks into place.

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4. Install Optical Device Data Cable

- Connect the SATA end of the cable to one of the server board SATA connectors.

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Install Processor Air Duct

- Install processor air duct as shown making sure the front edge of the duct aligns correctly with the notches on the fan module.
- Use care to avoid pinching system cables.

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Install Add-in Card (optional)

- Remove filler panel from the add-in card slot.
 - Remove the screw as shown.
 - Insert add-in card until it seats in riser connector.
 - Secure the add-in card with screw as shown.
- CAUTION: Observe normal ESD precautions when installing the add-in card.

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Install PCI Add-in Card Riser Assembly

- Note that the riser assembly card edge installs in the slot in the processor air duct.
- Position riser card edge connector over the server board riser socket and align the two hooks in the riser with the slots at the back of the chassis.
 - Press down uniformly until the two hooks on the rear of the PCI riser assembly engage the chassis back panel slots.
- The riser card will seat into the matching riser socket on the server board.

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Install Intel® Local Control Panel (optional)

- Note: The Intel® Local Control Panel option is only supported in hot-swap drive systems.
- Remove Standard Control Panel
- Disconnect the front panel and USB cables from the backplane as shown.
 - Press the blue locking lever at the back of the control panel and push it forward to release it from the chassis.
 - Slide the control panel and cables out of the chassis.
- Install Local Control Panel
- Connect the USB and data cables to the local control panel as shown.
 - Feed local control panel cables into chassis opening.
 - Slide control panel fully into chassis until the locking lever engages.

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Install Rack Handles

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

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Finishing Up

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

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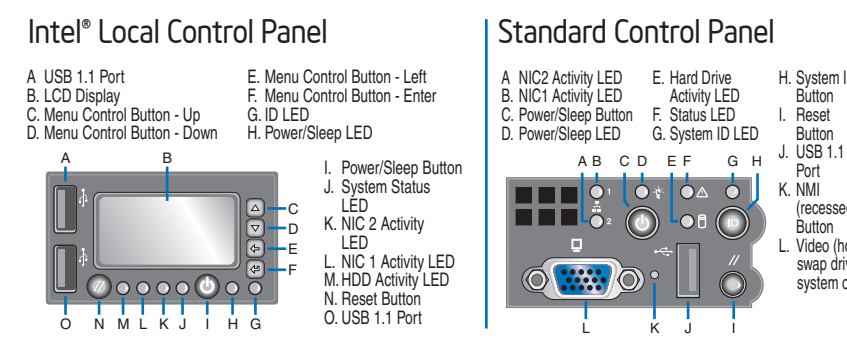
Software • BIOS, Drivers, and Operating System Installation

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

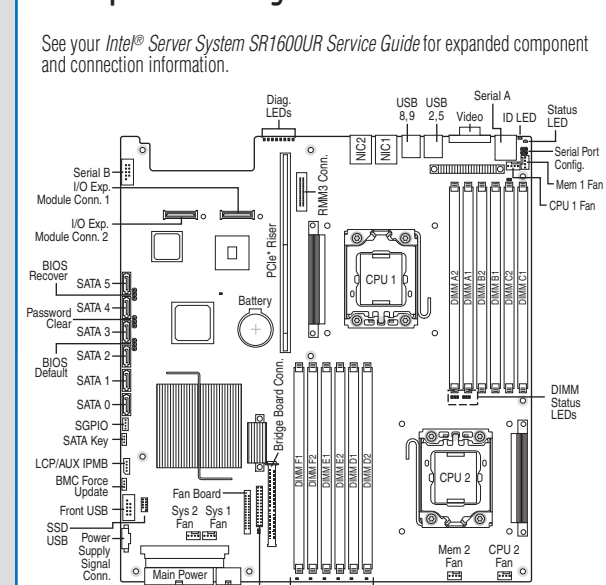
Front Panel Controls and Indicators



Optional Accessories and Order Codes

Tool-less Rail Kit	AXXHERAIL2	Infiniband® I/O Expansion Module	AXXIBIOMOD
Cable Management Arm	AXXRACKARM2	Dual Gigabit I/O Expansion Module	AXXGBIOMOD
Basic Slide Rail Kit	AXXBASRAIL3	SAS I/O Expansion Module	AXXSASIOMOD
Fixed Bracket Kit	AXXBCKRCKETS	Quad-Port Gigabit I/O Expansion Module	AXX4GBIOMOD2
Bezel for Standard Control Panel	ADWBEZBLACK	10 Gigabit I/O Expansion Module	AXX10GBIOMOD
Bezel for Intel® Local Control Panel	ADWLDBEZEL	Intel® Remote Management Module 3	AXXRMM3
Slimline DVD-ROM/CD-ROM Drive	AXXSATAVDROM		
Intel® Local Control Panel	AXXLCPRACK2		

Intel® Server Board S5520UR Component Layout



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

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