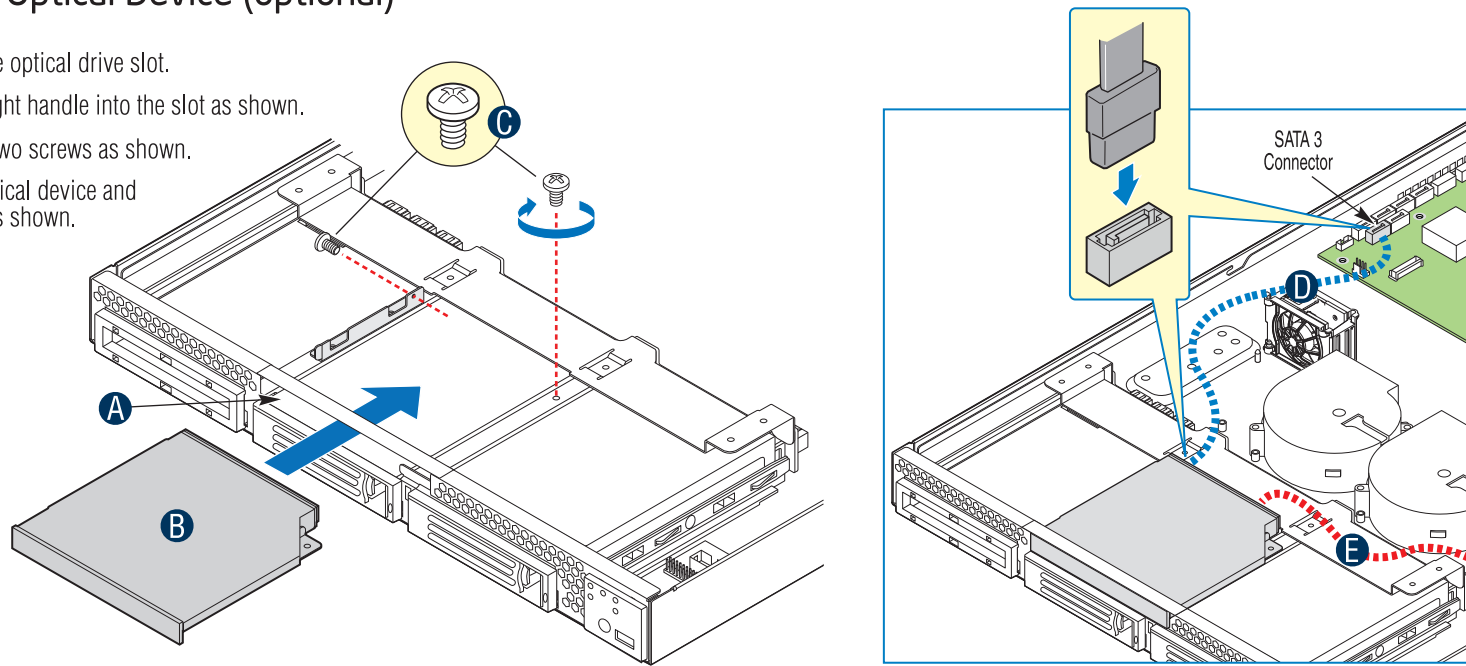


## 9 Install and Cable Optical Device (optional)

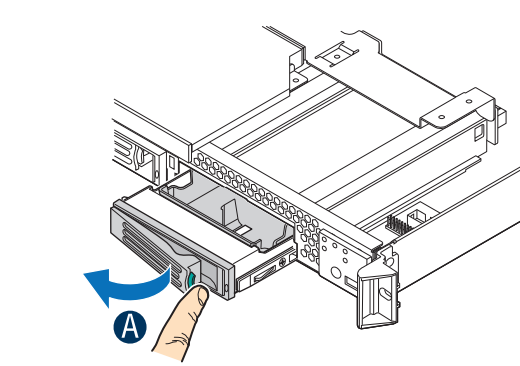
- Remove the filler panel from the optical drive slot.
- Insert the optical device with right handle into the slot as shown.
- Secure the optical device with two screws as shown.
- Connect SATA data cable to optical device and server board SATA connector as shown.
- Connect the optical device power cable, routed as shown from the power supply.



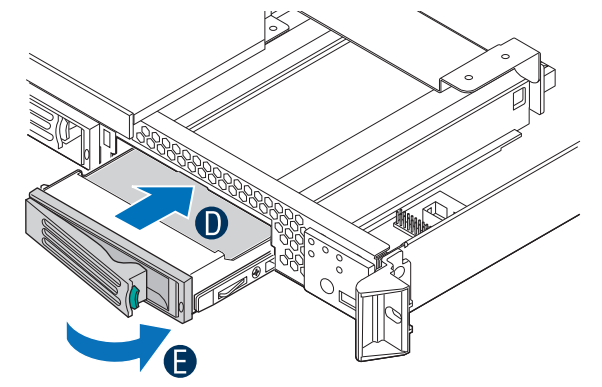
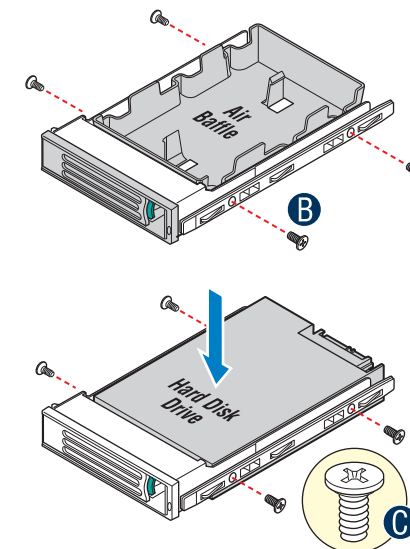
## 10 Install Hard Drives/Carriers

Repeat these steps for each installed hard drive

- Remove the drive carrier by pressing the **green** button and opening the lever. Then slide the carrier out.



- Remove the four screws securing the air baffle and remove the baffle.
- Install the hard disk drive using the same four screws as shown. Make sure the connector end of the drive matches the backplane connector.



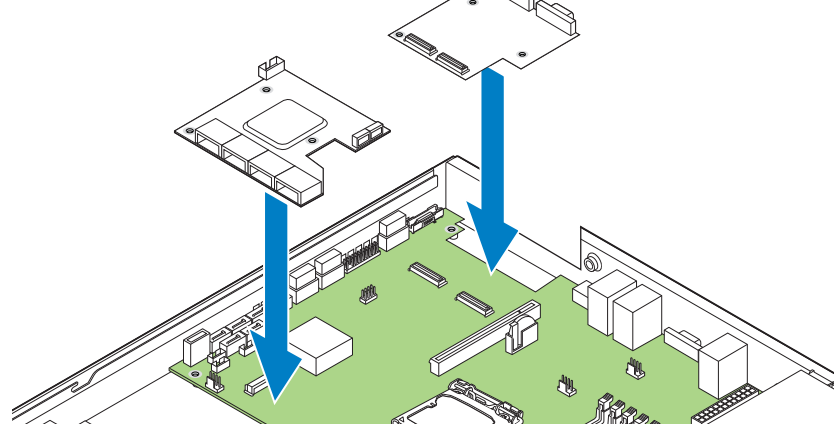
- With the lever open, insert the hard disk drive assembly into the chassis opening and push until the locking lever engages.
- Push in the lever to lock it into place.

Note: System ships with SATA Hard Drives pre-cabled from the backplane to the server board.

**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.

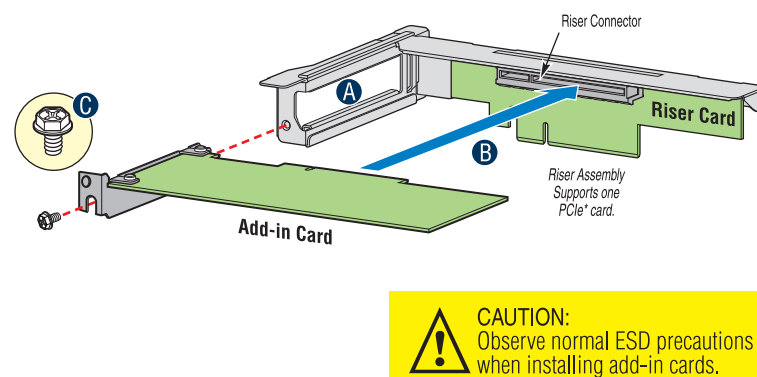
## 11 Install Intel® SAS module and I/O Expansion Module (Optional)

- Refer Intel® Server System Service Guide, available on the Intel® Server Deployment Toolkit CD or at <http://www.intel.com/support/motherboards/server/s3420gprx>, for detailed steps of installation of Intel® SAS Module and Intel® I/O Expansion Module.



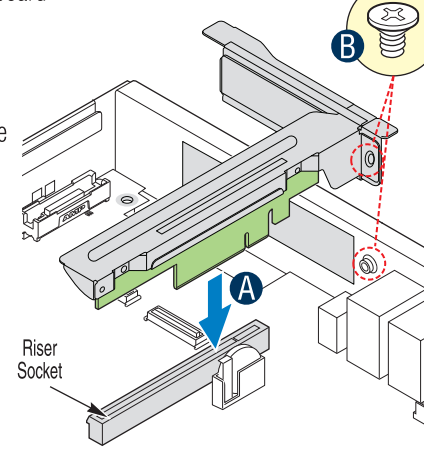
## 12 Install PCIe Add-in Card

- Remove filler panel from the add-in card slot.
- Insert add-in card until it seats in the riser connector.
- Secure add-in card with screw as shown.



## 13 Install PCIe Add-in Card Riser Assembly

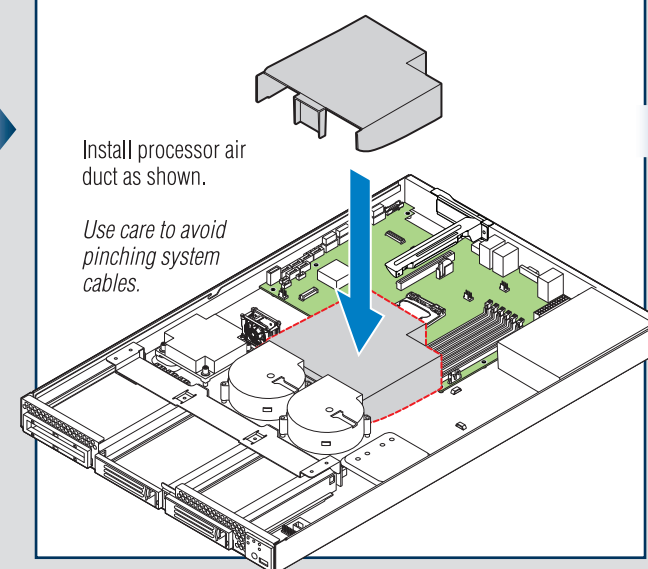
- Align the riser assembly with the server board riser socket.
- Press the riser assembly into place and secure with the screw.



## 14 Install Processor Air Duct

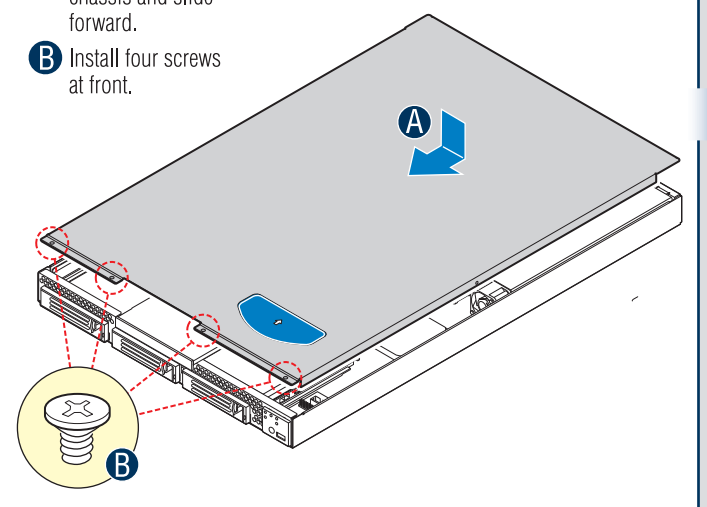
- Install processor air duct as shown.

Use care to avoid pinching system cables.

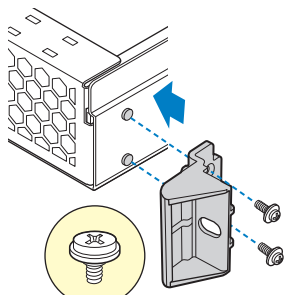


## 15 Install the Top Cover

- Place cover onto chassis and slide forward.
- Install four screws at front.



## 16 Install Rack Handles



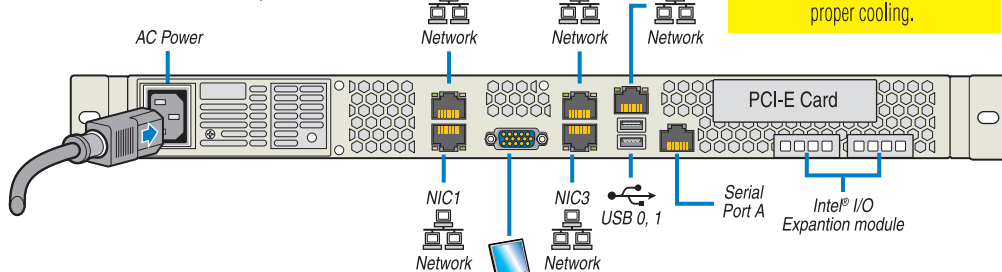
### Install Rail Kit (optional)

See the documentation that came with your selected rail kit for installation instructions.

## 17 Finishing Up

Before installing your operating system, you must finish your system installation and connect back panel I/O connectors and AC power.

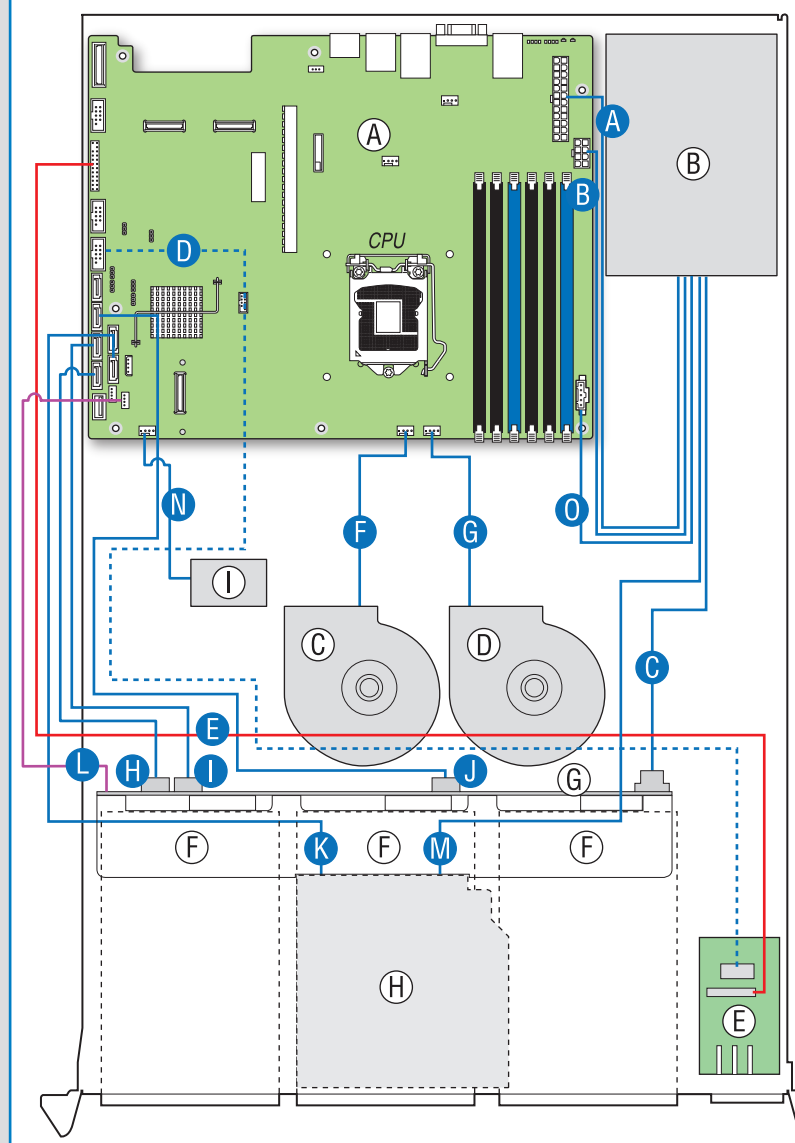
- Make sure you have replaced the system cover.
- Connect your keyboard, mouse, video and other I/O cables/devices as shown. Then connect the AC power cord.



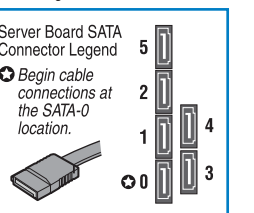
## 18 Install Software • BIOS, Drivers, and Operating System Install

- Confirm BIOS Version:** Look on the Server/System Management screen in the BIOS Setup Utility to determine the installed BIOS version. Compare this to the versions at: <http://www.intel.com/support/motherboards/server/s3420gprx>. If new versions are available, update the BIOS on your server. See the User Guide on the Intel® Server Deployment Toolkit CD for update instructions.
- Configure your RAID Controller:** Use the instructions provided with the RAID controller.
- 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 installer will autorun 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.

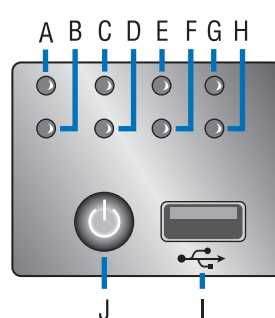
## Platform Cabling Diagram



- (A) Server Board
- (B) Power Supply
- (C) Blower Fan #1
- (D) Blower Fan #2
- (E) Front Panel Board
- (F) Hard Disk Drive Bays
- (G) Backplane
- (H) Optical Drive
- (I) Sys Fan
- (A) Power to Server Board (Main)
- (B) Power to Server Board (CPU)
- (C) Power to Backplane
- (D) Front Panel USB
- (E) Front Panel
- (F) Blower Fan #1 Power
- (G) Blower Fan #2 Power
- (H) HDD 0 to Server Board SATA 0
- (I) HDD 1 to Server Board SATA 1
- (J) HDD 2 to Server Board SATA 2
- (K) Optical Drive Data to Server Board SATA 3
- (L) Link to backplane SPGIO
- (M) Optical Drive to Power Supply
- (N) Sys fan Power
- (O) PSU management bus to AUX



## Front Panel Controls and Indicators (shown with bezel removed)



- A. NIC1 LED
- B. NIC2 LED
- C. Power LED
- D. NIC3 LED
- E. Status LED
- F. NIC4 LED
- G. HDD Activity LED
- H. NIC5 LED
- I. USB 2.0 Port
- J. Power Button

Optional Accessories and Order Codes	
350 Watt High Efficiency Power Supply	FHJT350HEPS
System Blower Fan Spare	FHJTBLOWER
Hot-Swap Chassis Product Maintenance Kit	FHJTRXPMKIT
PCIe® x16 Riser Card	AHJTPCIRISER

A complete list of accessories and spares can be found at: [www.intel.com/go/serverbuilder](http://www.intel.com/go/serverbuilder)

## Intel® Server Board S3420GPRX Component Layout

