8 **Install Hard Drives/Carriers**
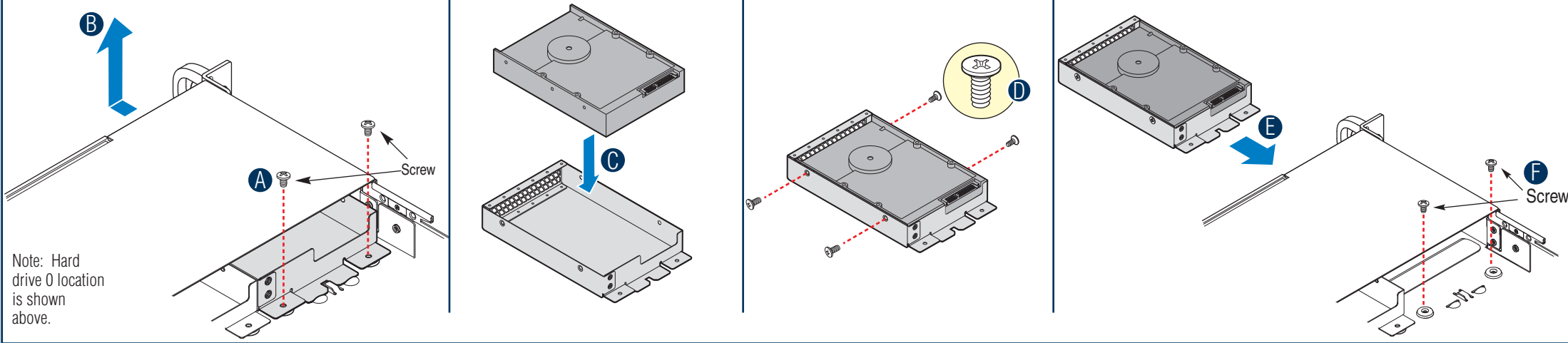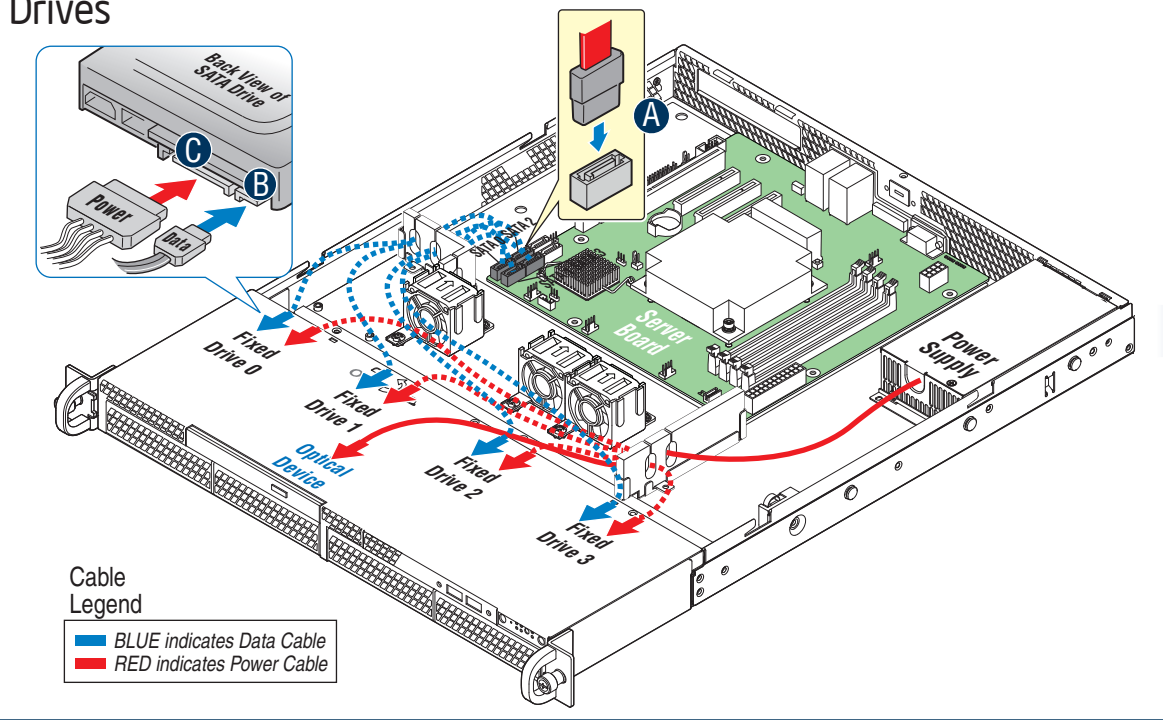
A. Remove the screws securing the drive carrier to the chassis.
B. Slide the carrier away from the chassis.

Note: Hard drive 0 location is shown above.

Screw

C. Insert hard drive into the carrier with the bottom-side of the drive facing up.

D. Attach the hard drive to the carrier with four screws as shown.

E. Re-install the hard drive/carrier assembly into the chassis.
F. Secure the hard drive/carrier assembly with the screws.

Screw
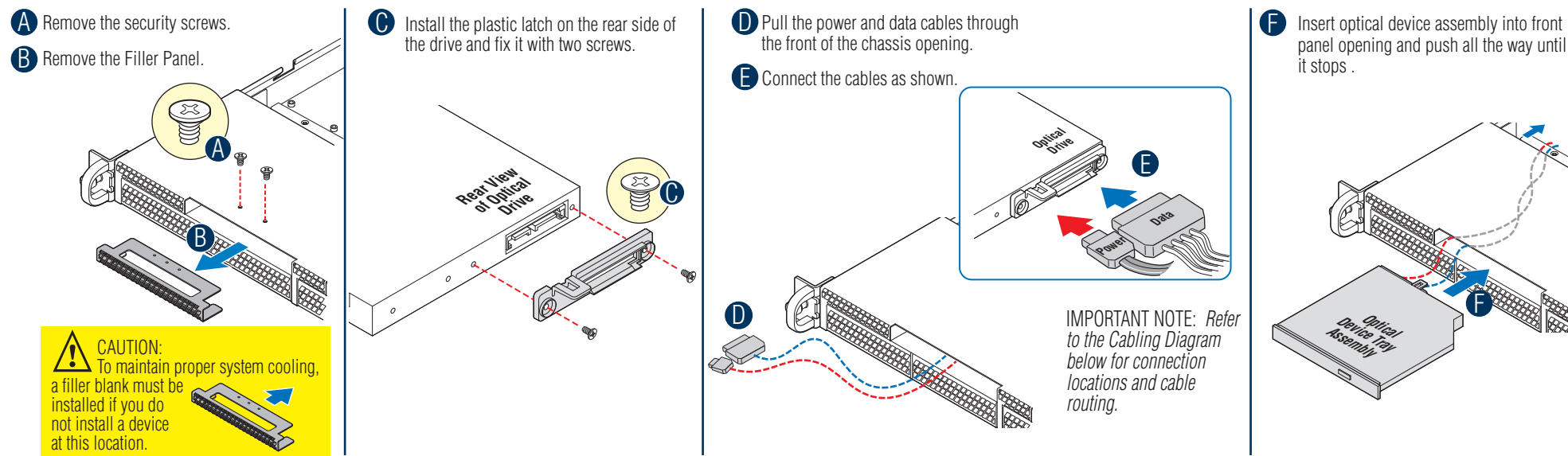
9 **Cabling Hard Drives**

A. Connect SATA data cable(s) to server board as shown.

B. Connect opposite end of SATA data cable(s) to hard drive(s) as shown ... *see detail* .

C. Connect the SATA fixed drive power connectors to each hard drive as shown ... *see detail.*
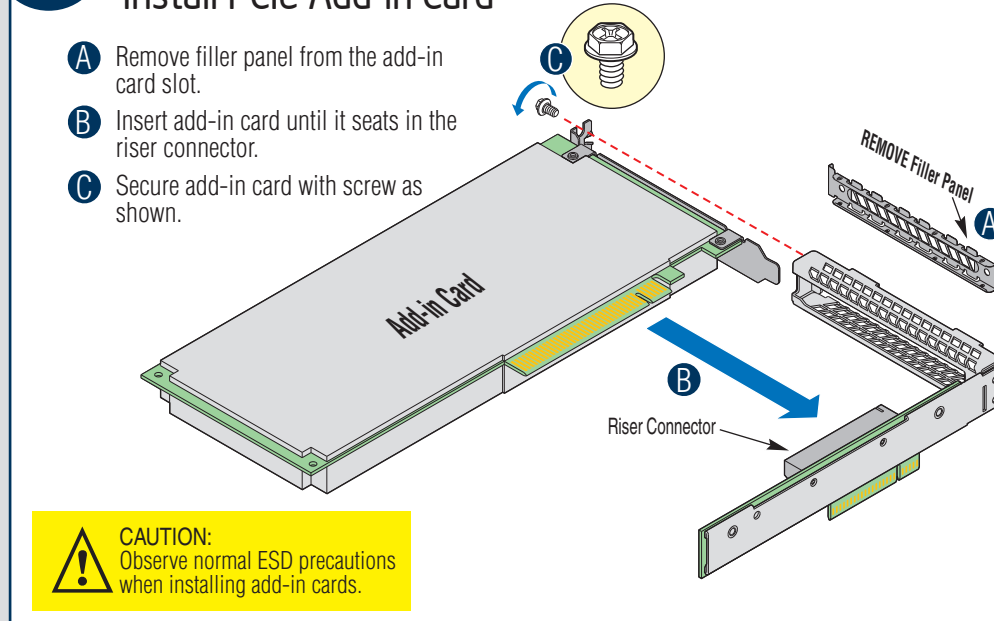
Rear View of SATA Drive
Power

Server Board

Fixed Drive 0
Fixed Drive 1
Optical Device
Fixed Drive 2
Fixed Drive 3
Power Supply

Cable Legend
— BLUE indicates Data Cable
— RED indicates Power Cable

10 **Install and Cable Optical Device (optional)**

A. Remove the security screws.
B. Remove the Filler Panel.

C. Install the plastic latch on the rear side of the drive and fix it with two screws.

Rear View of Optical Drive

D. Pull the power and data cables through the front of the chassis opening.
E. Connect the cables as shown.

Optical Drive
Power Data

IMPORTANT NOTE: Refer to the Cabling Diagram below for connection locations and cable routing.

F. Insert optical device assembly into front panel opening and push all the way until it stops .

Optical Device Top Assembly

⚠ CAUTION: To maintain proper system cooling, a filler blank must be installed if you do not install a device at this location.
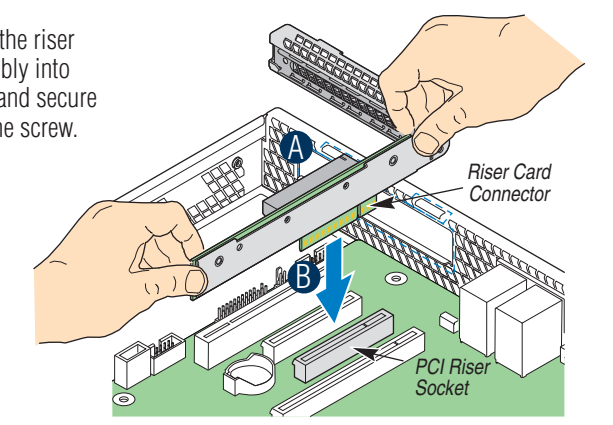
11 **Install PCIe Add-in Card**

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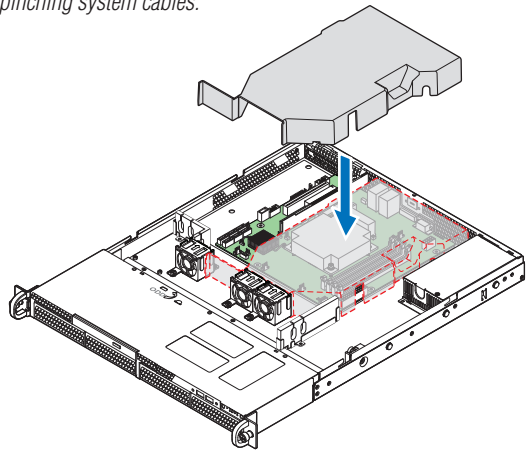C. Secure add-in card with screw as shown.

REMOVE Filler Panel

Add-in Card

Riser Connector

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

12 **Install PCIe Add-in Card RiserAssembly**

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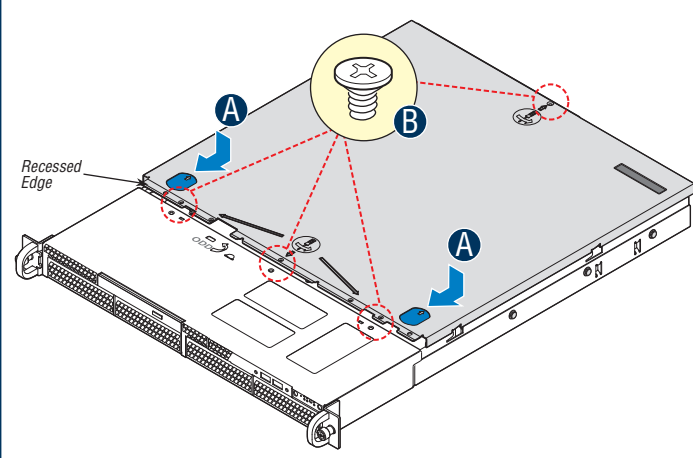B. Press the riser assembly into place and secure with the screw.

Riser Card Connector

PCI Riser Socket

13 **Install Processor Air Duct**

Install processor air duct as shown.
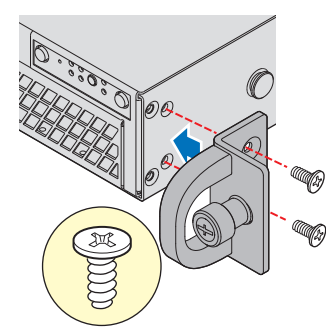
NOTE: Use care to avoid pinching system cables.

14 **Install the Top Cover**

A. Place cover onto chassis and slide forward to engage recessed edge at front of cover. *Make sure the latch is locked.*
B. Tighten the four screws.
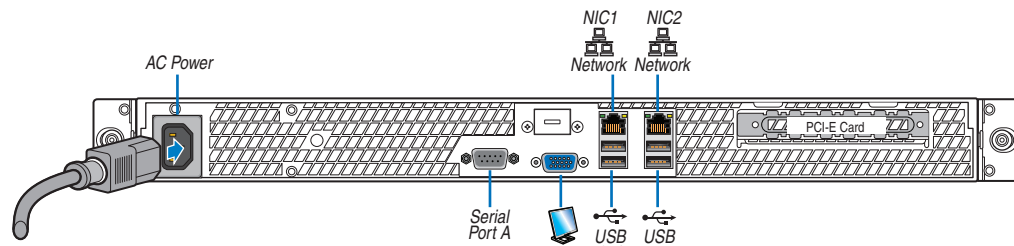
Recessed Edge

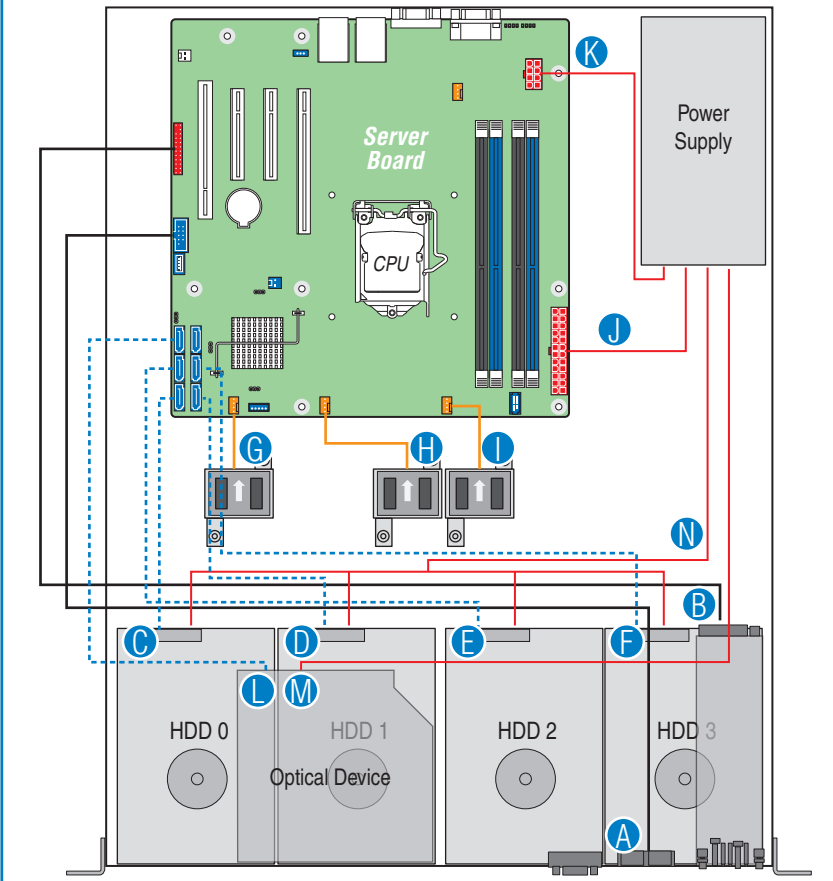**15** **Install Rack Handles**

16 **Finishing Up**

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

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

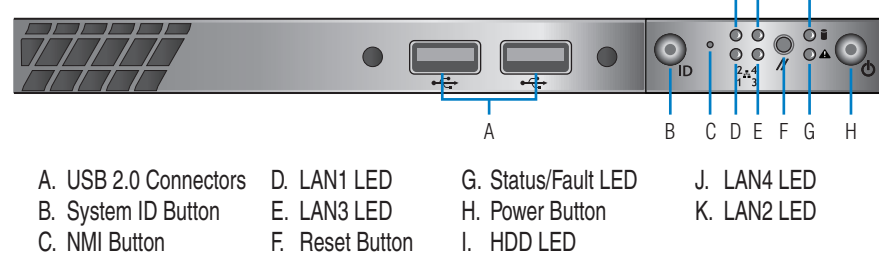⚠ CAUTION: This unit must be operated with the TOP COVER installed to ensure proper cooling.

AC Power

NIC1 Network   NIC2 Network

Serial Port A
Video   USB 0, 1   USB 2, 3

Platform Cabling Diagram

Server Board
CPU
Power Supply

HDD 0   HDD 1 Optical Device   HDD 2   HDD 3

A. Front Panel USB
B. Front Panel
C. HDD 0 to Server Board SATA 0
D. HDD 1 to Server Board SATA 1
E. HDD 2 to Server Board SATA 2
F. HDD 3 to Server Board SATA 3
G. System Fan #1 Power
H. System Fan #2 Power
I. System Fan #3 Power
J. Power to Server Board (Main)
K. Power to Server Board (CPU)
L. Optical Device SATA Data Cable
M. Optical Device to Power Supply
N. HDD to Power Supply

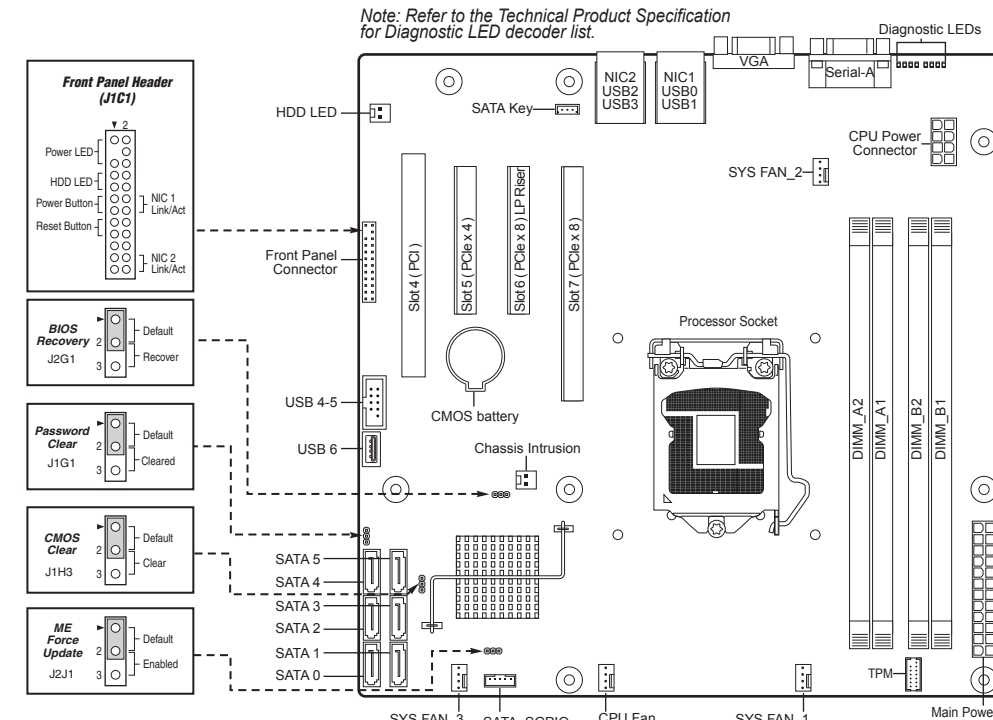Server Board SATA Connector Legend
4 5
2 3
0 1

17 **Software** ▪ BIOS, Drivers, and Operating System Installation

A. 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
If new versions are available, update the BIOS on your server. See the Technical Product Specification on the Intel® Server Deployment Toolkit CD for update instructions.

B. Configure your RAID Controller: Use the instructions provided with the RAID controller.

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 Intel® Deployment Assistant 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.

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

K J I
B C D E F G H

A. USB 2.0 Connectors
B. System ID Button
C. NMI Button
D. LAN1 LED
E. LAN3 LED
F. Reset Button
G. Status/Fault LED
H. Power Button
I. HDD LED
J. LAN4 LED
K. LAN2 LED

Intel® Server Board S1200BTS Component Layout

Note: Refer to the Technical Product Specification for Diagnostic LED decoder list.

Front Panel Header (J1C1)
Diagnostic LEDs
Power LED
HDD LED
Power Button
Reset Button
NIC 1 Link/Act
NIC 2 Link/Act

HDD LED
SATA Key
NIC2 USB2 USB3   NIC1 USB0 USB1
VGA
Serial-A
CPU Power Connector
SYS FAN_2

Front Panel Connector

BIOS Recovery J2G1   Default / Recover
Password Clear J1G1   Default / Cleared
CMOS Clear J1H3   Default / Clear
ME Force Update J2J1   Default / Enabled

USB 4-5
USB 6
CMOS battery
Chassis Intrusion

Processor Socket
DIMM_A2 DIMM_A1 DIMM_B2 DIMM_B1

SATA 5
SATA 4
SATA 3
SATA 2
SATA 1
SATA 0

TPM
SYS FAN_3   SATA_SGPIO   CPU Fan Connector   SYS FAN_1   Main Power Connector

Available Documents
Technical Product Specification
Quick Reference Label
Quick Start User Guide/System Configuration Guide
Additional Reference documents available at: http://www.intel.com/support/motherboards/server

Optional Accessories/Spares and Order Codes

Value Rail kit	AXXVRAIL
SATA Slim-line DVD	AXXSATADVDROM
Intel® Trusted Platform Module	AXXTPME3

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

(intel)