

10 Servicing the Hard Disk Drives

- Remove the drive tray by pressing the green button, opening the lever, and pulling out the hard drive/tray assembly. **A**
- Remove four screws securing the drive to the tray and remove drive. **B**
- Install new drive into tray and secure with four screws. **C**
- With the drive tray locking lever in the fully open position, slide the hard drive/tray assembly into the chassis opening until it stops, then close the lever, pressing until it snaps shut. **D**

CAUTION: If you install fewer than six drives, empty drive bays must be occupied by trays with baffles to maintain proper system cooling.

Important Note: If you install fewer than six drives, HDD Bay 0 must be occupied first, then HDD Bay 1, and so on.

Hard Drive Numbering Diagram

11 Installing an Optical Device (optional)

To install an optional optical device, see the Kontron IP Network Server NSC2U Product Guide on the CD accompanying your system.

12 Installing an Intel® Z-U130 Value Solid State Drive (optional)

- Plug one end of the SysCon cable into the interposer card as shown. Note that cable ends are identical. **A**
- Attach the interposer card to the front panel (SFP) board using screws and standoffs as shown. **B**
- Attach the Intel® Value Solid State Drive card to the interposer card using the screw as shown. **C**
- Plug the other end of the SysCon cable into the matching connector on the front panel (SFP) board. **D**

13 Installing I/O Expansion Module (optional)

Remove Module Filler Panels

Prior to installing the I/O Module and/or the Intel® RMM Modules, you must remove the matching module filler panel(s).

- Squeeze the sides of the appropriate filler panel to disengage from the chassis back panel and remove. **A**

Install I/O Expansion Module

- Snap the three standoffs into the server board first. **B**
- Attach module to the server board connector and matching standoffs. **C**

14 Installing Intel® Remote Management Modules (optional)

Install Intel® RMM NIC Module

- Snap the three standoffs into the server board first. **A**
- Attach module to the server board connector and matching standoffs. **B**

Install Intel® RMM Module

- Insert the standoff into the hole labeled TH4 on the Intel® Remote Management Module. The standoff installs on the bottom side of the Intel® Remote Management Module. **C**
- Attach the Intel® Remote Management Module to the server board Advanced Server Management Interface connector and snap the standoff into the matching hole in the server board. **D**

15 Installing Hardware RAID5 Components (optional)

Check Battery Connection

- The RAID IBBU has an internal battery power cable. Open the IBBU case lid as shown. If necessary, use a small flat-blade screwdriver to pry open each corner of the lid. **A**
- If the battery power cable is not connected, connect the cable now. **B**

Do not close the lid.

Connect RAID Battery Cable

- Lift the battery assembly out of the case and insert the battery cable through the case opening as shown. **C**
- Attach the cable to the battery connector as shown. **SEE CAUTION BELOW!** **D**
- Replace the battery assembly into the case and close and latch the IBBU case lid. **E**

CAUTION: To avoid possible damage to the battery, note the appearance of the cable connector and connect as indicated.

Install RAID Battery

- The RAID IBBU has two hooks on the underside. Place IBBU on edge and align these hooks with the matching chassis tabs. **F**
- Then slide the IBBU toward the back panel to lock into place. Note: Check that the top tab snaps into the small slot (see red arrow). **G**
- Connect the IBBU power cable to the front panel board as shown. **H**

CAUTION: Route the IBBU power cable flush around the battery edge as shown above to avoid interference with the system fan module. Use cable ties if needed.

Install RAID DIMM and RAID Key

- Open both DIMM socket levers. **I**
- Note location of alignment notch. **J**
- Insert DIMM making sure the connector edge of the DIMM aligns correctly with the slot. **K**
- Using both hands, push down firmly on both sides of the DIMM until it snaps into place and the levers close. **L**
- Install RAID activation key by inserting into RAID key socket as shown. Make sure socket metal clips snap securely over top edge of key. **M**

CAUTION: Avoid touching contacts when handling or installing the RAID DIMM.

Reference

Server System Cabling and Component Diagram

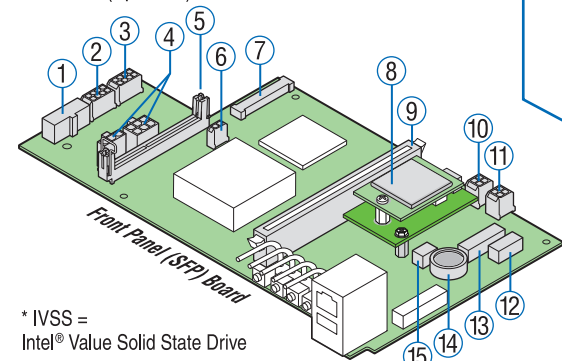
IMPORTANT NOTE: See your Kontron IP Network Server NSC2U Product Guide for complete cabling and server board component descriptions.

System Components

- | | |
|----------------------------|-------------------------------------------|
| 1 Power Supplies | 8 SAS HDD 1, 3, 5 |
| 2 Server Board | 9 SAS HDD 0, 2, 4 |
| 3 Power Distribution Board | 10 Optical Device (Optional) |
| 4 Flex Cable | 11 Intelligent Battery Backup Unit (IBBU) |
| 5 PCI Fan Module | 12 HDD Hot Swap Backplane Board |
| 6 System Fan Module | 13 RAID Battery Backup Connector |
| 7 Front Panel (SFP) Board | 14 Intel® Value Solid State Drive |

Front Panel (SFP) Board Connector/Component Layout

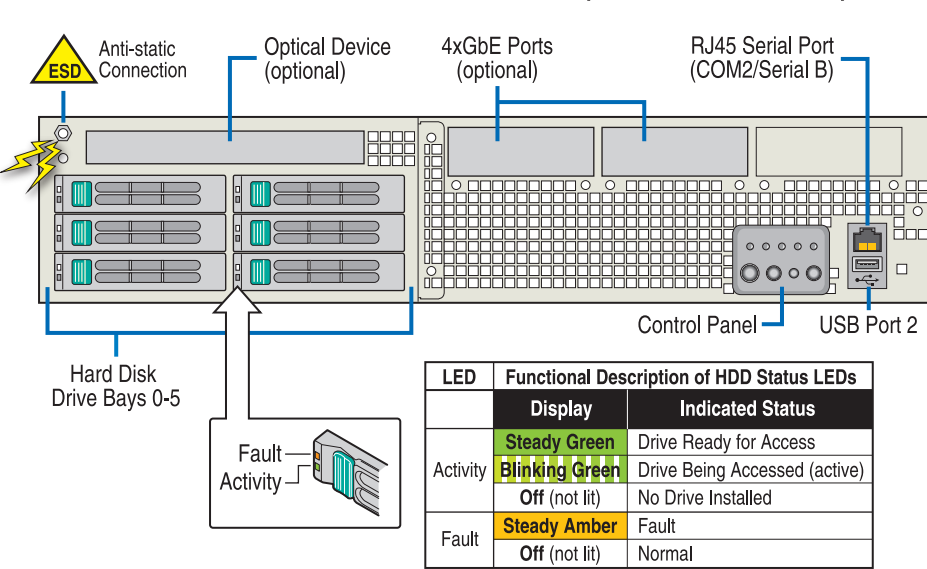
- SAS Backplane Power
- PCI Fan Power 1
- PCI Fan Power 2
- SFP Power Conns. (2)
- Bridge Board Conn.
- Standby Power Conn.
- Flex Connector
- Intel® Value Solid State Drive (optional)
- RAID DIMM Socket
- System Fan 1 Power
- System Fan 2 Power
- Serial Connector
- RAID Battery Backup Connector
- RAID Key
- Intel® Value Solid State Drive Connector



* IVSS = Intel® Value Solid State Drive

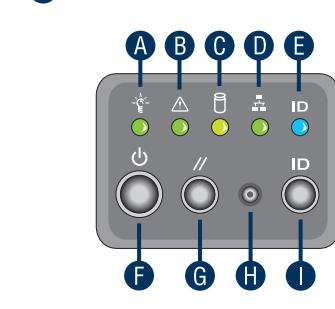


Front Panel Controls and Features (Bezel Removed)



Control Panel

- A Power LED
- B Status LED
- C Disk Activity LED
- D NIC Activity LED
- E ID LED
- F Power Switch
- G Reset Switch
- H NMI Switch
- I ID Switch



Functional Description of Status LEDs

LED	Display	Functional Description of Status LEDs
A	Steady Green	Power On
	Steady Green	Status OK
	Blinking Green	System Degraded
B	Steady Amber	Fatal Alarm
	Blinking Amber	Non-fatal Alarm
	Off (not lit)	Power Off
	Blinking Green	Drive Activity
C	Amber (no green)	Drive Fault
	Off (not lit)	No Drive Activity
D	Steady Green	Link Activity
	Off (not lit)	No Link Activity
E	Steady Blue	ID On

Back Panel Controls and Features

