

INSIGHT DLP SENSOR 310C, 310F, 310CNC and 310CNF Appliance Hardware Installation Guide



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1. RATINGS

- V: 100 - 127 VAC
200 - 240 VAC
Hz: 50/60
A: 100 - 127V ~ / 10A Max (x2)
200 - 240V ~ / 5A Max (x2)

2. DIMENSIONS

- 30 x 17 5/8 x 2 inches
- **Base Weight:** 65 lbs. This weight may be more depending on the addition of devices such as hard disk drives, PCI circuit boards, etc.

3. SITE PREPARATION

Setup location, rack and appliance precautions

- **Elevated Operating Ambient Temperature** - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient temperature. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer.

Always keep the rack's front door and all panels and components on the appliances closed when not servicing to maintain proper cooling.

- **Reduced Air Flow** - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised. Leave enough clearance, approximately 25 inches in the front, and 30 inches in the back of the rack to enable you to access appliance components and allow for sufficient air flow.
- **Mechanical Loading** - Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.

ALL RACKS MUST BE MOUNTED SECURELY. Ensure that all leveling jacks or stabilizers are properly attached to the rack. If installing multiple appliances in a rack, make sure the overall loading for each branch circuit does not exceed the rated capacity.

Do not slide more than one appliance out from the rack at a time. Extending more than one appliance at a time may result in the rack becoming unstable. Install your appliance in the lower part of the rack because of its weight and also for ease in accessing appliance components.

- **Circuit Overloading** - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.
- **Reliable Earthing** - Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).

Install near appropriate AC outlets, and Ethernet hubs or individual jacks. Be sure to install an AC Power Disconnect for the entire rack assembly. The Power Disconnect must be clearly marked. Ground the rack assembly properly to avoid electrical shock.

NOTE: Use the hardware supplied with your specific rack if different from the hardware supplied in this kit.

4. UNPACKING THE APPLIANCE

Make sure the ship kit includes:

- 1U rack rail assembly kit with mounting hardware and the rack rail installation instructions.
- Two power cords



Two power cords

5. RACK RAIL AND APPLIANCE INSTALLATION

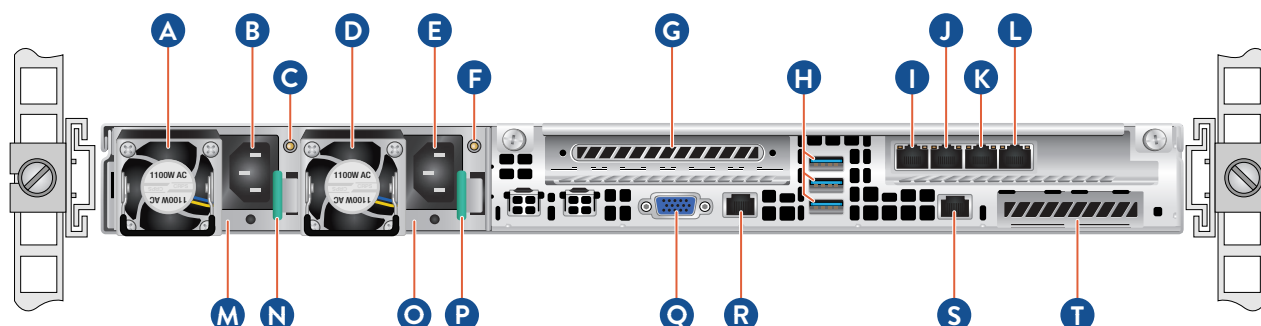
- Locate and follow the installation instructions included with rail's ship kit to install the rails and the appliance in the rack.
- Once the rails and the appliance have been installed in the rack proceed to [Section 6](#), on page 5 for rear panel connections.

6. SENSOR 310C REAR PANEL CONNECTIONS



CAUTION

Slide rail/mounted equipment is not to be used as a shelf or a work space.



NOTE: Do not cable the Ethernet ports at this time.

A Power Supply Module #1 Fan

B Power Supply Module #1 AC Receptacle

C Power Supply Module #1 System Status LED

D Power Supply Module #2 Fan

E Power Supply Module #2 AC Receptacle

F Power Supply Module #2 System Status LED

G Full Height PCIe Expansion Slot

H Three USB Ports

I MGMT/DLP Port

J SPAN Port

K Not Used

L Not Used

M Power Supply Module #1

N Power Supply Module #1 Lock

O Power Supply Module #2

P Power Supply Module #2 Lock

Q VGA Port

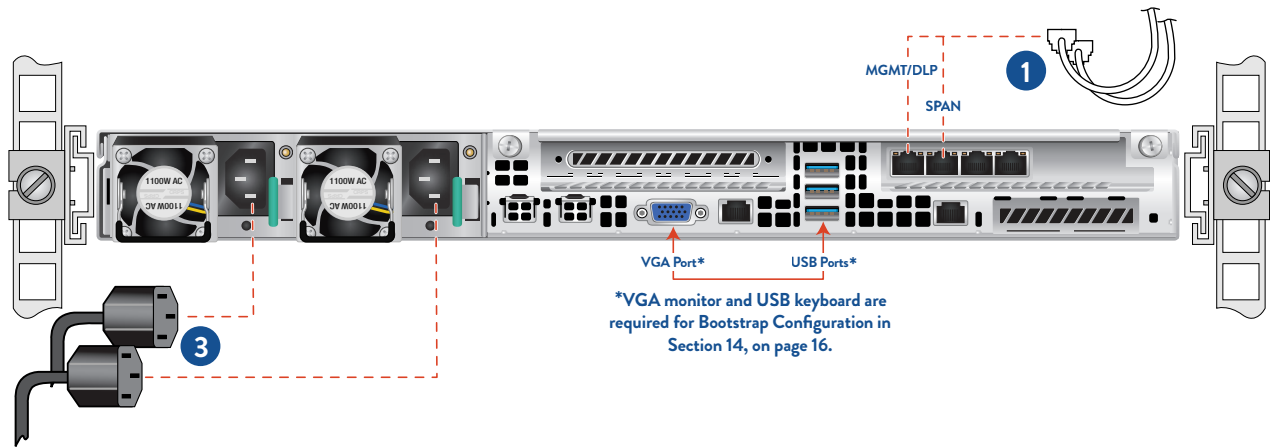
R Not Used

S Remote Management Port*

T OCP Module Bay

***NOTE:** Although IPMI and or Remote Management is available we do not support it. We recommend for the use of KVM with VGA and USB adaptor.

6. SENSOR 310C REAR PANEL CONNECTIONS (continued)

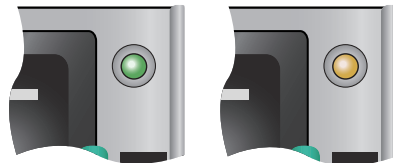


- Step 1** Connect the Ethernet cables for MGMT/DLP, and SPAN (if required).
- Step 2** Connect any other required cables.
- Step 3** Connect the power cords.
- Step 4** Proceed to [Section 10, Front Panel Operation](#) on page 13.

NOTE: The server offers redundant, hot-swap capability. The connections to AC mains should be made in a manner appropriate to local code and consistent with customer power distribution with or without redundant sources.

POWER SUPPLY STATUS LED

There is a single bi-color Power Good LED on each power supply module to indicate power supply status. The LED operation is defined in the table below.



POWER SUPPLY CONDITION	LED STATE
Output ON and OK	GREEN
No AC power to both power supplies	OFF
AC present / only 12 VSB on (PS off) or PS in cold redundant state	1Hz Blinking GREEN
AC cord unplugged or AC power lost; with a second power supply in parallel still with AC input power	AMBER
Power supply warning events where the power supply continues to operate; high temp, high power, high current, slow fan	1Hz Blinking AMBER
Power supply critical event causing a shutdown; failure, OCP, OVP, fan fail	AMBER
Power supply FW updating	2Hz Blinking GREEN

In normal operation the Power Good LED on Power Supply Module 1 will be SOLID GREEN and the LED on Power Supply Module 2 will BLINK GREEN (redundant standby), if the system is powered down both LEDs will BLINK GREEN.

CAUTION

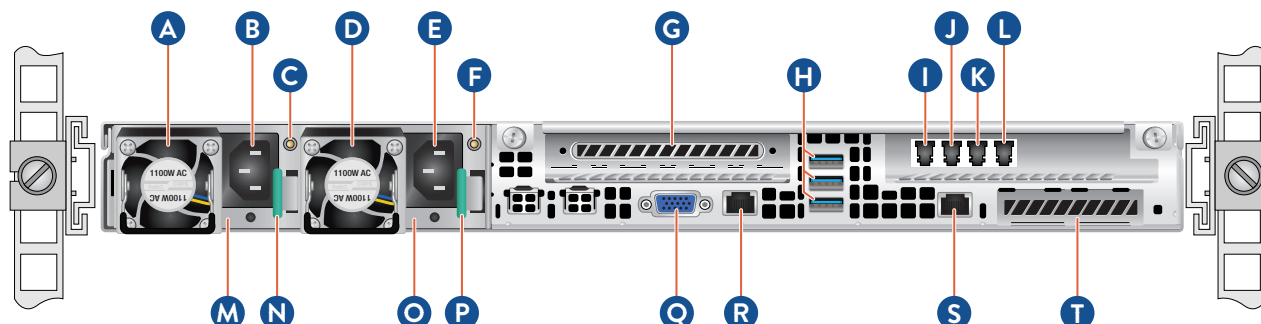
The power supply is hot-swappable only when you have a server with redundant power supplies installed. If you only have one power supply installed, before removing or replacing the power supply, you must first take the server out of service, turn off all peripheral devices connected to the server, turn off the server by pressing the power button, and unplug the AC power cord from the server or wall outlet.

7. SENSOR 310F REAR PANEL CONNECTIONS



CAUTION

Slide rail/mounted equipment is not to be used as a shelf or a work space.



NOTE: Do not cable the Ethernet ports at this time.

A Power Supply Module #1 Fan

B Power Supply Module #1 AC Receptacle

C Power Supply Module #1 System Status LED

D Power Supply Module #2 Fan

E Power Supply Module #2 AC Receptacle

F Power Supply Module #2 System Status LED

G Full Height PCIe Expansion Slot

H Three USB Ports

I Not Used

J Not Used

K SPAN Port

L MGMT/DLP Port

M Power Supply Module #1

N Power Supply Module #1 Lock

O Power Supply Module #2

P Power Supply Module #2 Lock

Q VGA Port

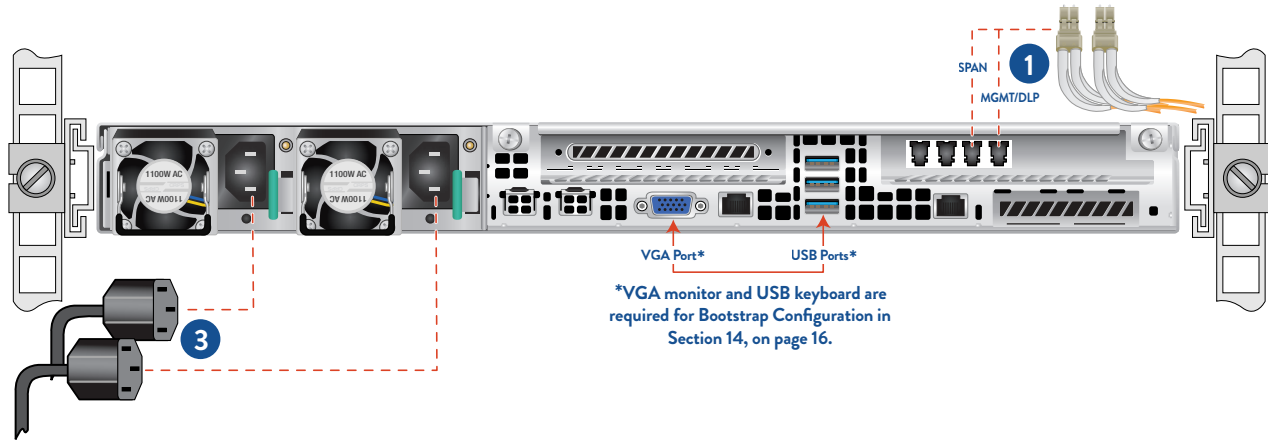
R Not Used

S Remote Management Port*

T OCP Module Bay

***NOTE:** Although IPMI and or Remote Management is available we do not support it. We recommend for the use of KVM with VGA and USB adaptor.

7. SENSOR 310F REAR PANEL CONNECTIONS (continued)

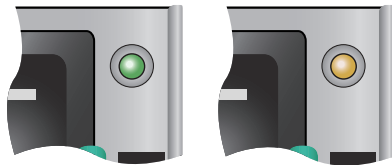


- Step 1** Connect the Ethernet cables for MGMT, DLP, and SPAN (if required).
- Step 2** Connect any other required cables.
- Step 3** Connect the power cords.
- Step 4** Proceed to [Section 10, Front Panel Operation](#) on page 13.

NOTE: The server offers redundant, hot-swap capability. The connections to AC mains should be made in a manner appropriate to local code and consistent with customer power distribution with or without redundant sources.

POWER SUPPLY STATUS LED

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Output ON and OK	GREEN
No AC power to both power supplies	OFF
AC present / only 12 VSB on (PS off) or PS in cold redundant state	1Hz Blinking GREEN
AC cord unplugged or AC power lost; with a second power supply in parallel still with AC input power	AMBER
Power supply warning events where the power supply continues to operate; high temp, high power, high current, slow fan	1Hz Blinking AMBER
Power supply critical event causing a shutdown; failure, OCP, OVP, fan fail	AMBER
Power supply FW updating	2Hz Blinking GREEN

In normal operation the Power Good LED on Power Supply Module 1 will be SOLID GREEN and the LED on Power Supply Module 2 will BLINK GREEN (redundant standby), if the system is powered down both LEDs will BLINK GREEN.

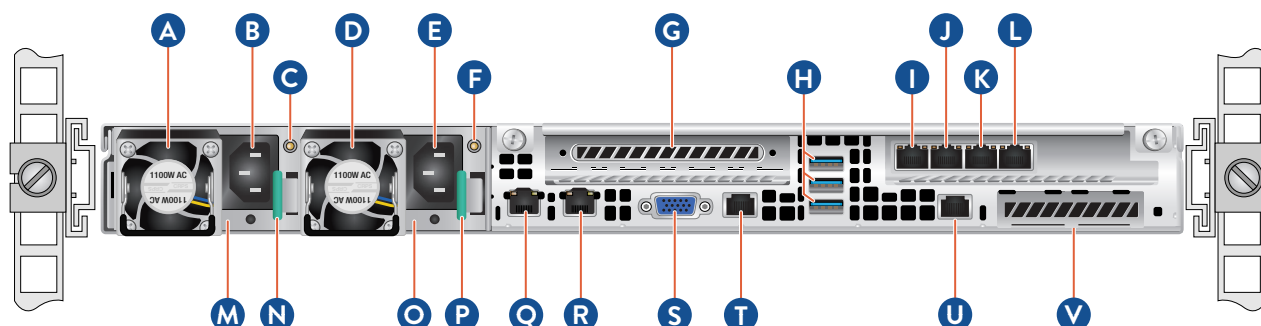
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CAUTION

Slide rail/mounted equipment is not to be used as a shelf or a work space.

8. SENSOR 310CNC REAR PANEL CONNECTIONS



NOTE: Do not cable the Ethernet ports at this time.

A Power Supply Module #1 Fan

B Power Supply Module #1 AC Receptacle

C Power Supply Module #1 System Status LED

D Power Supply Module #2 Fan

E Power Supply Module #2 AC Receptacle

F Power Supply Module #2 System Status LED

G Full Height PCIe Expansion Slot

H Three USB Ports

I Highspeed Port 3

J Highspeed Port 2

K Highspeed Port 1

L Highspeed Port 0

M Power Supply Module #1

N Power Supply Module #1 Lock

O Power Supply Module #2

P Power Supply Module #2 Lock

Q MGMT/DLP Port

R SPAN Port

S VGA Port

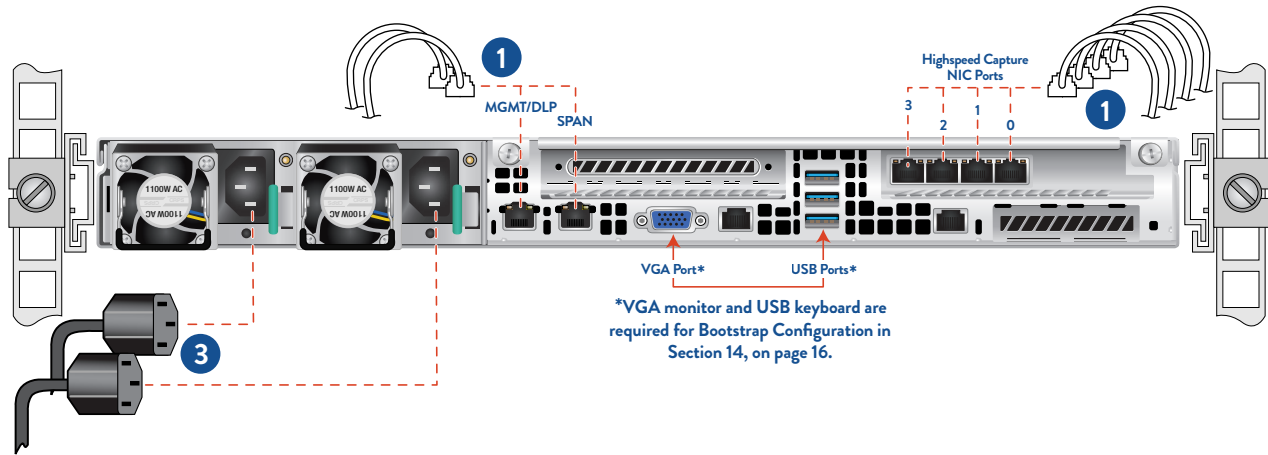
T Not Used

U Remote Management Port*

V Half Height PCIe Expansion Slot

***NOTE:** Although IPMI and or Remote Management is available we do not support it. We recommend for the use of KVM with VGA and USB adaptor.

8. SENSOR 310CNC REAR PANEL CONNECTIONS (continued)

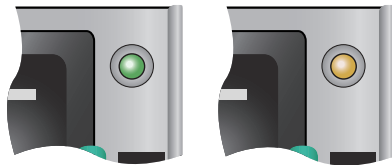


- Step 1** Connect the Ethernet cables for MGMT, DLP, and SPAN (if required).
- Step 2** Connect any other required cables.
- Step 3** Connect the power cords.
- Step 4** Proceed to [Section 10, Front Panel Operation](#) on page 13.

NOTE: The server offers redundant, hot-swap capability. The connections to AC mains should be made in a manner appropriate to local code and consistent with customer power distribution with or without redundant sources.

POWER SUPPLY STATUS LED

There is a single bi-color Power Good LED on each power supply module to indicate power supply status. The LED operation is defined in the table below.



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AC present / only 12 VSB on (PS off) or PS in cold redundant state	1Hz Blinking GREEN
AC cord unplugged or AC power lost; with a second power supply in parallel still with AC input power	AMBER
Power supply warning events where the power supply continues to operate; high temp, high power, high current, slow fan	1Hz Blinking AMBER
Power supply critical event causing a shutdown; failure, OCP, OVP, fan fail	AMBER
Power supply FW updating	2Hz Blinking GREEN

In normal operation the Power Good LED on Power Supply Module 1 will be SOLID GREEN and the LED on Power Supply Module 2 will BLINK GREEN (redundant standby), if the system is powered down both LEDs will BLINK GREEN.

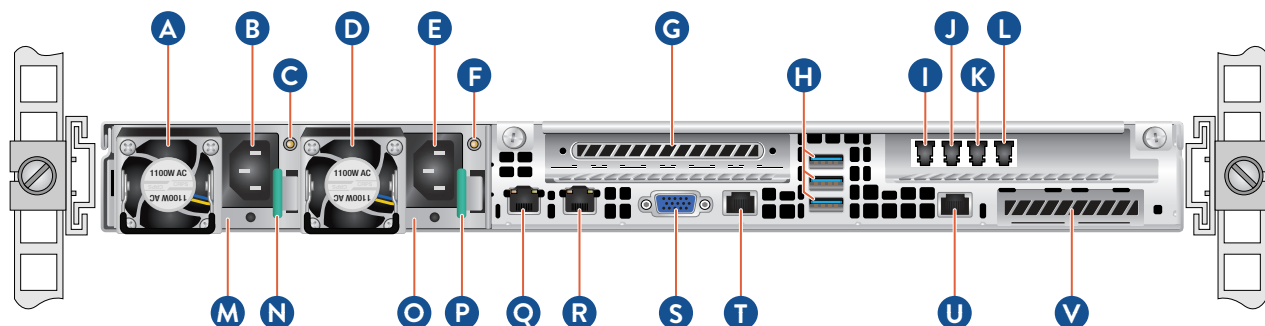
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CAUTION

Slide rail/mounted equipment is not to be used as a shelf or a work space.

9. SENSOR 310CNF REAR PANEL CONNECTIONS



NOTE: Do not cable the Ethernet ports at this time.

A Power Supply Module #1 Fan

B Power Supply Module #1 AC Receptacle

C Power Supply Module #1 System Status LED

D Power Supply Module #2 Fan

E Power Supply Module #2 AC Receptacle

F Power Supply Module #2 System Status LED

G Full Height PCIe Expansion Slot

H Three USB Ports

I Highspeed Port 3

J Highspeed Port 2

K Highspeed Port 1

L Highspeed Port 0

M Power Supply Module #1

N Power Supply Module #1 Lock

O Power Supply Module #2

P Power Supply Module #2 Lock

Q MGMT/DLP Port

R SPAN Port

S VGA Port

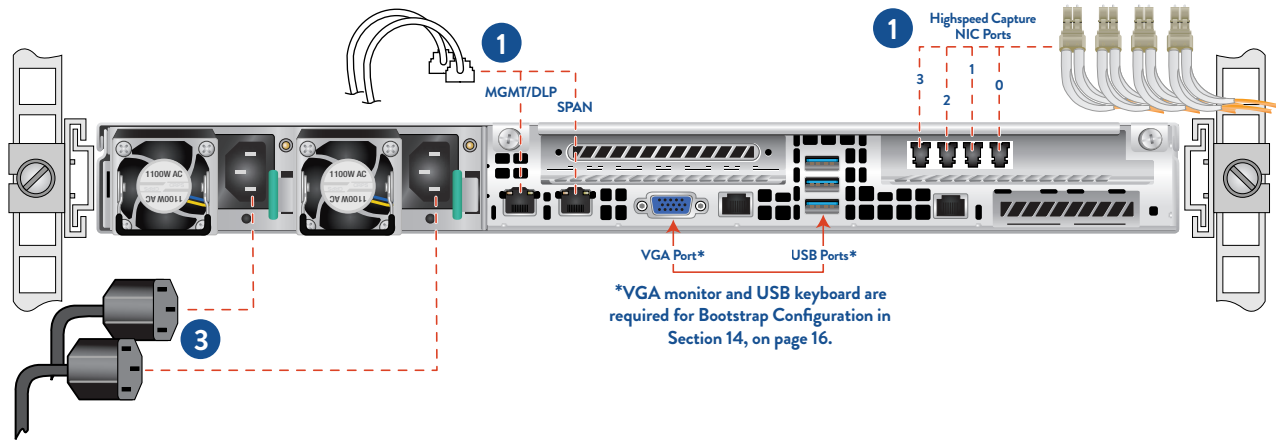
T Not Used

U Remote Management Port*

V Half Height PCIe Expansion Slot

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9. SENSOR 310CNF REAR PANEL CONNECTIONS (continued)

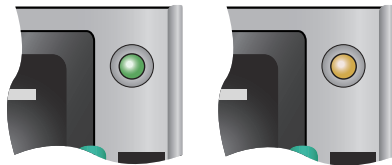


- Step 1** Connect the Ethernet cables for MGMT, DLP, and SPAN (if required).
- Step 2** Connect any other required cables.
- Step 3** Connect the power cords.
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Power supply critical event causing a shutdown; failure, OCP, OVP, fan fail	AMBER
Power supply FW updating	2Hz Blinking GREEN

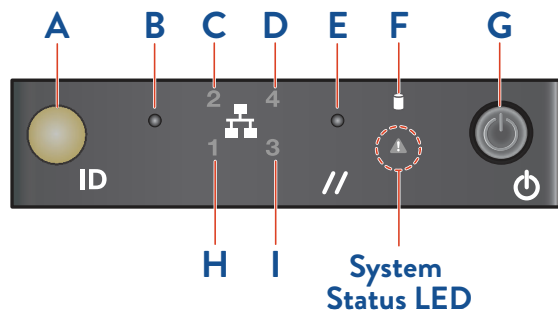
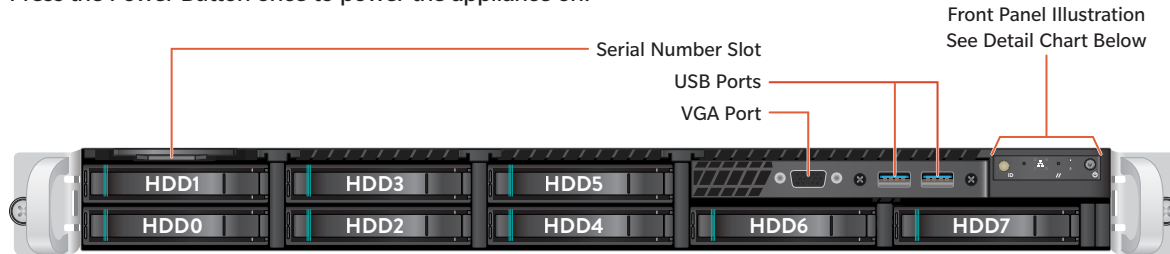
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10. FRONT PANEL OPERATION

Press the Power Button once to power the appliance on.



- A** System ID Button with integrated LED
- B** NMI Button (recessed, tool required for use)
- C** NIC 2 Activity LED
- D** NIC 4 Activity LED
- E** System Cold Reset Button (tool required)
- F** HDD Activity LED
- G** Power Button with integrated LED
- H** NIC 1 Activity LED
- I** NIC 3 Activity LED

System Status LED

There is a bi-color (Green/Amber) LED on the Front Panel (shown on the left). The LED operation is defined in the following table.

LED COLOR	SYSTEM STATE	CRITICALITY
OFF	System is not operating	Not ready
GREEN	Solid - On	OK
GREEN	~1 Hz blinking	Degraded - system is operating in a degraded state although still functional, OR system is operating in a redundant state but with an impending failure warning
AMBER	~1 Hz blinking	Non-critical - system is operating in a degraded state with an impending failure warning, although still functioning
AMBER	Solid - On	Critical, non-recoverable - system is halted

11 BEZEL INSTALLATION ON THE APPLIANCE

- Step 1:** Align the bezel with the front of the appliance. Insert the right fixed bezel tab on the right side of the bezel into the handle on the right side of the appliance.
- Step 2:** Swing the left side of the bezel in toward the appliance. Press in on the bezel to engage the flexible bezel tab on the left side of the bezel into the handle on the left side of the appliance.



12. BOOTSTRAP CONFIGURATION OF THE APPLIANCE

You will need a keyboard and monitor plugged into the appliance for the initial configuration wizard. This method is quicker and easier and does not require special configuration of an additional computer.

To access the bootstrap wizard:

Step 1: Plug a keyboard into an available USB port on the back of the appliance.

Step 2: Connect a monitor to the available VGA port.

Step 3: Power on the appliance.

You will see the system go through the basic boot functions. Once the appliance login prompt is displayed, enter the following:

User: **appuser**

Password: **Chang3m3!**

Step 4: Complete First Boot setup.

Step 5: When prompted, change the password for the appuser.

Do not lose this password as you will need it to continue the setup.

Step 6: Enter your network information as prompted.

For DNS and NTP you may provide multiple entries on one line. Separate them with a comma only.

Example: 0.pool.ntp.org,time.nist.gov

Step 7: Continue the setup on the appliance web interface by going to the IP address you set on port 5000 via https.

For example, https://<configured_IP>:5000