

Installing the Extreme Networks E2120 ExtremeCloud™ Appliance

Electrical Hazard: Only qualified personnel should perform installation procedures.

Caution: An antistatic wrist strap is required to perform the following procedures to minimize ESD damage to the devices involved.

Warning: Install the ExtremeCloud™ Appliance E2120 in a Restricted Access Location only. Access to the equipment by users must be restricted through the use of a tool or lock and key or other means of security and is controlled by the authority responsible for the location.

These installation instructions provide a general outline to quickly install and configure the E2120 ExtremeCloud™ Appliance.

For product support, including documentation, visit:

www.extremenetworks.com/documentation

Verifying the E2120 Box Contents

Unpack your appliance and verify the contents of the box as follows:

Table 1 Contents of the E2120 Box

Quantity	Item
1	E2120 Quick Reference
1	ExtremeCloud E2120 Appliance
The following hardware is included:	
1	AC power cord bracket and cable clamp kit
1	Rack mounting kit
1	Front panel bezel
1	Rail Kit Installation instruction sheet

Note: The power cord needs to be purchased separately for the respective deployment country. They can be ordered at <http://www.extremenetworks.com/product/powercords>

Mounting the Appliance

If you are installing the appliance in a rack:

- Read the *Rail Kit Installation* instruction sheet included with the rack mounting kit.
- Install the rails and mount the appliance in the rack as instructed.

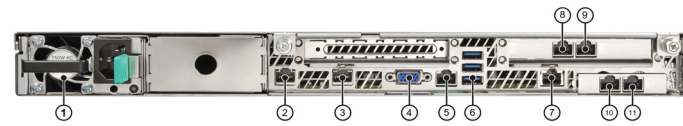
If you are table mounting the appliance, ensure at least 6 cm of clearance on all sides of the appliance for proper ventilation.

Connecting to a Power source

Refer to **Figure 1** for the location of the back panel features.

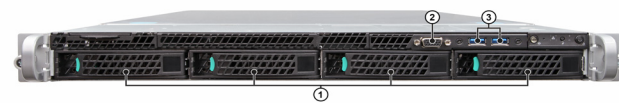
- Optionally, attach the power cord bracket and nylon cable clamp tie:
 - Using the two nuts shipped with the bracket, attach the bracket to the chassis tab to the right of Power Supply 2.
 - Push the arrowhead end of the cable clamp tie into the hole in the bracket to anchor the tie.
- Connect the two AC power cables to power supplies 1 and 2. These two power supplies combine to create an optional redundant power supply.
- Optionally, wrap the cable clamp tie around the power cables and fasten the end of the tie under the hook at the head of the tie.
- Plug the other end of the cables into grounded electrical outlets or to separate power sources such as an uninterruptible power supply (UPS) or a power distribution unit (PDU).
- Power on the appliance. The power button is on the front control panel as shown in **Figure 2** and **Figure 3**.

Figure 1 E2120 Back Panel Layout



- | | |
|-------------------------------------|-------------------------------------|
| 1 Power Supply Module #1 | 8 Data Port 1, 1GbE RJ45(Port1) |
| 2 Mgmt Port, 1 GbE RJ45 (Admin) | 9 Data Port 2, 1GbE RJ45(Port2) |
| 3 Port 2 (not used, plugged) | 10 Data Port 3, 1/10GbE SFP+(Port3) |
| 4 Video Connector | 11 Data Port 4, 1/10GbE SFP+(Port4) |
| 5 RJ45 Serial-A Port | |
| 6 USB 2.0/3.0 Ports | |
| 7 RMM4 NIC Port (not used, plugged) | |

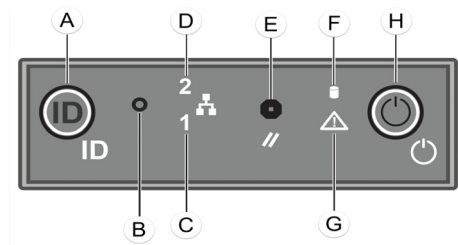
Figure 2 E2120 Front Panel Layout



- | | |
|-------------------------|---------------------|
| 1 Hard disk Drive Bays | 3 USB 2.0/3.0 Ports |
| 2 Front Video Connector | |

Note: Although the appliance has 5 USB connectors (2 on the front panel and 3 on the back panel), only one USB connector can be in use at any one time.

Figure 3 Front Control Panel



- | | |
|--------------------------------------|----------------------------------|
| A System ID Button w/ Integrated LED | F Drive Activity LED |
| B NMI Button | G System Status LED |
| C Mgmt Port Activity LED | H Power Button w/ Integrated LED |
| D Not Used | |
| E System Cold Reset Button | |

Hard Drive LED Indicator Patterns

The hard drive has two LED indicators visible from the front of the system — one is a green LED for disk activity, and the other is amber and indicates hard drive status. The LEDs have the following states, as described in **Table 2** and **Table 3**.

Table 2 Hard Drive Activity LED Indicator Patterns

Hard Drive Condition	Activity LED Patterns
Power on and drive spinning up or spinning down	Off
Power on with drive activity	Blinking green

Table 3 Hard Drive Status LED Indicator Patterns

Hard Drive Condition	Status LED Patterns
No access or no fault	Off
Hard drive fault has occurred	Solid amber

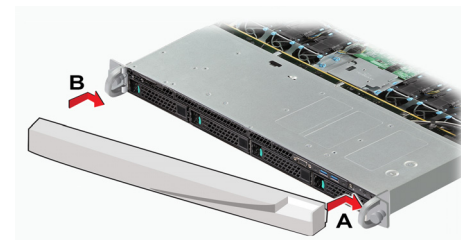
Attaching the Front Bezel

The appliance comes with an optional front panel bezel, which can be attached to the front of the chassis by snapping it on the rack handles. A key lock allows you to lock the bezel in place to restrict

access to the controls on the front panel. You can monitor the system status indicators with the bezel in place.

- Lock the right end of the front bezel to the rack handle (see letter “A” in **Figure 4**).
- Rotate the front bezel clockwise until the left end clicks into place (see letter “B” in **Figure 4**).
- Lock the bezel if needed.

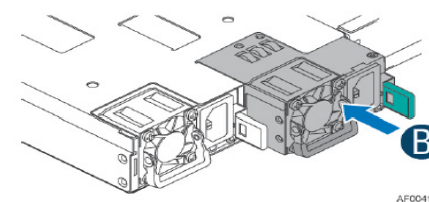
Figure 4 Attaching Optional Bezel



Installing a Power Supply

If you are installing a power supply:

- Remove the insert from the chassis power supply bay.
- Insert the power supply module into the power supply bay.



- Push the power supply module into the bay until it locks into place.

Removing a Power Supply

If you are removing a power supply:

- Detach the power supply cord from the power supply that needs to be removed.
- Pull the power supply module using the handle, while pushing the latching tab outward to disengage the power supply from the unit.

Replacing a Power Supply

The appliance will support two power supplies, supplying hot-pluggable power redundancy. The system distributes the power load across both power supplies to maximize efficiency. When a power supply is removed with the system powered on, the full power load is picked up by the remaining power supply.

Note: The system ships with just one power supply and you have the option to purchase the additional power supply (Ordering Part No. 30522 WS-PSI-C5215-750W-01).

Note: The system requires one power supply to operate the system normally. Remove and replace only one power supply at a time in a system that is powered on.

Each power supply has a single bi-color LED to indicate power supply status, as described in **Table 4**.

Table 4 Power Supply Status LED Indicator Patterns

Power Supply Condition	LED Pattern
Output on and OK	Green
No AC power to all power supplies	Off
AC present / Only 12VSB on (PS off) or PS in cold redundant state	1Hz Blinking Green
AC power cord unplugged or AC power lost. With a 2nd PS in parallel still with AC input power	Amber
Power supply warning events where PS continues to operate — high temp, high power, high current, slow fan	1Hz Blinking Amber

Table 4 Power Supply Status LED Indicator Patterns

Power Supply Condition	LED Pattern
Power supply critical event causing a shutdown, failure, OCP, OVP, fan fail	Amber
Power supply firmware updating	2Hz Blinking Green

Initial Network Connection and Configuration

Configuring the Management Interface via Console Port

Note: The E2120 must be upgraded to the latest ExtremeCloud™ Appliance firmware before installing the appliance on the network.

- Connect the laptop serial port to the appliance console port through the provided console cable. If the laptop does not support RS232 interface then obtain a USB to RS232 converter cable which then connects to the RJ45-DB9F cable.
- Using PuTTY, TeraTerm, or other terminal emulator, connect to the serial port connection. Be sure that your serial connection is set properly:
 - 115200 baud
 - 8 data bits
 - 1 stop bit
 - Parity none
 - Flow control none
- Using the console session, perform the following:
 - At the password prompt, enter user: **admin**
 - For the initial password, enter: **abc123**
 - Press **ENTER**.
- Read the configuration script paragraph carefully. The configuration script will walk you through configuring the following:
 - Admin Password
 - Host Attributes Settings
 - Time Settings
 - SNMP Settings
 - Data Plane Settings
- At the end of each session, if you enter **Yes**, then it will move to the next session. If you answer **No**, the session configuration is repeated.
- Press **ENTER**.
- The Appliance Post Installation Configuration Menu pops up right after the last session is applied. Enter **6** to apply settings and exit or other number for repeating the setup.
- Connect to a port on which management access was enabled during the CLI Wizard Setup.
- Launch your web browser and in the browser address bar, type: **https://Your_Mgmt_Ipaddress:5825**. The ExtremeCloud™ Appliance’s logon screen is displayed.
- On the logon screen, enter **Admin** and Password that was created when setting up the installation wizard.

Note: An installation wizard is available to help configure the E2120 for new deployments. Refer to the *ExtremeCloud™ Appliance User Guide* for more information.


Configuring the Management Interface via the Management Port

You can retain the default IP address of the appliance’s management interface if you do not intend to connect the appliance to your enterprise network. If you do intend to connect the appliance to your network follow these steps:

Note: The E2120 must be upgraded to the latest ExtremeCloud™ Appliance firmware before installing the appliance on the network.

- Connect a laptop to the management port of the appliance.

- Configure the Ethernet port of the laptop with a statically assigned unused IP address in the 192.168.10.0/24 subnet.
- Launch your Web browser and in the browser address bar, type **https://192.168.10.1:5825** (192.168.10.1 is the default IP address on the appliance's management port). The ExtremeCloud™Appliance's logon screen is displayed.
- On the ExtremeCloud™Appliance's logon screen, enter the following:
 - User name: enter **admin**
 - Password: enter **abc123**
 - Click **Login**.
- Complete the installation to configure the E2120 for new deployments.
- Disconnect your laptop from the appliance's management port.
- Connect the appliance's management port to the enterprise Ethernet LAN.
- Log on to Extreme Networks.

 **Note:** The system is now visible to the enterprise network. Refer to the *ExtremeCloud Appliance User Guide* for more information.

Connecting the Data Ports

Data ports 1 and 2 are 1 GbE RJ45 ports.

To connect twisted pair cabling:

- Ensure that the device to be connected at the other end of the segment is powered on.
- Connect the twisted pair segment to the appliance by inserting the RJ45 connector on the twisted pair segment into the desired RJ45 port.
- Verify that a link exists by checking that the Activity Link LED is on (solid green or blinking green). If the Activity Link LED is off, perform the following steps until it is on:
 - Verify that the cabling being used is Category 5 or better with an impedance between 85 and 111 ohms with a maximum length of 100 meters (328 feet).
 - Verify that the device at the other end of the twisted pair segment is on and properly connected to the segment.
 - Verify that the RJ45 connectors on the twisted pair segment have the proper pinouts and check the cable for continuity.
- If a link is not established, contact Extreme Networks.

Data ports 3 and 4 provide SFP+ ports that can support both 1 G and 10G pluggable transceivers. Refer to the datasheet at the following location for a list of pluggable transceivers supported for the E2120: www.extremenetworks.com/products/transceivers

To install an SFP+ transceiver:

- With an antistatic wrist strap attached to your wrist, remove the transceiver from its packaging. If there is a protective dust cover in the transceiver connector, do not remove it at this time.
- Hold the transceiver so that the connector will seat properly.
- Carefully align the transceiver with the port slot.
- Push the transceiver into the port slot until it “clicks” and locks into place.

To connect cables to SFP+ ports:

- Remove the protective covers from the SFP+ and from the connectors on each end of the cable.
- Insert the cable connector into the SFP+ connector until it clicks into place.
- Plug the other end of the cable into the appropriate port on the other device. Some fiber-optic cables may be terminated at the other end with two separate connectors, one for each fiber-optic strand. In this case, ensure that the transmit fiber-optic strand from the appliance is connected to the receive port of the other device, and the receive fiber-optic strand on the appliance is connected to the transmit port of the other device.
- If an SFP+ port is unused, install a dust cover.


 **Warning:** Fiber-optic SFP+s use Class 1 lasers. Do not use optical instruments to view the laser output. The use of optical instruments to view laser output increases eye hazard. When viewing the output optical port, power must be removed from the network adapter.

Table 5 RJ45 Port LEDs (Management Port)

LED Type	LED Pattern	Status Indication
Network Speed (Right)	Off	10 Mbps
	Amber	100 Mbps
	Green	1000 Mbps
Link Activity (Left)	Off	No link
	Solid Green	Active link
	Blinking Green	Data traffic activity

Table 6 Port LEDs (Data Ports 1 and 2)

LED Type	LED Pattern	Status Indication
Network Speed (Right)	Off	10 Mbps
	Green	100 Mbps
	Amber	1000 Mbps
Link Activity (Left)	Off	No link
	Solid Green	Active link
	Blinking Green	Data traffic activity

Table 7 SFP+ Port LEDs (Data Ports 3 and 4)

LED Type	LED Pattern	Status Indication
Network Speed (Right)	Off	Not used
	Amber	1 Gbps
	Green	10 Gbps
Link Activity (Left)	Off	No link
	Solid Green	Active link
	Blinking Green	Data traffic activity

Regulatory Compliance Information

For complete regulatory compliance and safety information, refer to the document *Intel® Server Products Product Safety and Regulatory Compliance*, available at the following links:

http://download.intel.com/support/motherboards/server/sb/g23122003_safetyregulatory.pdf

<https://extranet.extremenetworks.com/downloads/Pages/WirelessControllers.aspx>

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Hillsboro, OR 97124-6497
Phone: 1-800-628-8686

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部件名称 (Parts)	有毒有害物质或元素 (Hazardous Substance)					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr ⁶⁺)	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
金属部件 (Metal Parts)	×	○	○	○	○	○
电路模块 (Circuit Modules)	×	○	○	○	○	○
电缆及电缆组件 (Cables & Cable Assemblies)	×	○	○	○	○	○
塑料和聚合物部件 (Plastic and Polymeric parts)	○	○	○	○	○	○
电路开关 (Circuit Breakers)	○	○	○	○	○	○

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- It is the users' responsibility to utilize the available collection system to ensure WEEE is properly treated. For information about the available collection system, please contact Extreme Environmental Compliance at Green@extremenetworks.com.

Notice

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