

Install the Extreme Networks Universal Compute Platform Appliance 4120C

Overview

4120C is a high-performance appliance that hosts the component sets of Universal Compute Platform. The appliance offers on-premise service for application deployment and hosting with asserted performance.



Electrical Hazard: Only qualified personnel must perform installation procedures.



Caution: To minimize Electrostatic Discharge (ESD) damage to the devices, you must wear an antistatic wrist strap while performing the installation procedures.

These installation instructions provide a general outline to quickly install and configure the 4120C appliance. For product support, including documentation, visit: www.extremenetworks.com/documentation

Verify the 4120C Box Contents

Unpack your appliance and verify the box contents as follows:

Table 1 Contents of the 4120C Box

Quantity	Item
1	4120C Quick Reference
1	Universal Compute Platform 4120C unit
2	Shipping lock screws
1	AC power cord bracket and retention strap kit
1	Rack mounting kit
1	Front panel faceplate
1	Rail kit installation instruction sheet



Note: The power cord must be purchased separately for the respective deployment country and can be ordered at <https://www.extremenetworks.com/powercords>

Mount the Appliance

If you are installing the appliance in a rack:

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

If you are table mounting the appliance, ensure at least 6 cm (2.5 in.) of clearance on all sides of the appliance for proper ventilation.

Connect to a Power source

Refer to [Figure 1](#) for the location of the back panel features. To connect the appliance to a power source:

- 1 Locate the power cord retention strap from the AC power cord bracket and cable clamp kit:
 - a Insert the locking tab end of the retention strap into the receiver hole located to the right of power supply.
 - b Adjust the slider of the retention strap to a desired position while pushing up the locking tab on the bottom of the slider.
- 2 Connect the two AC power cables to power supplies 1 and 2. These two power supplies combine to create an optional redundant power supply.
- 3 Optionally, wrap the slider strap over the power cord and lock it securely in place.
- 4 Plug the other end of the cables into grounded electrical outlets or to separate power sources such as an uninterrupted power supply (UPS) or a power distribution unit (PDU).
- 5 Power on the appliance. The power button is on the front control panel as shown in [Figure 2](#) and [Figure 3](#).

Figure 1 4120C back panel layout



- 1 Port 1 (Data Port 1) 1/10 GbE, RJ45
 - 2 Port 2 (Data Port 2) 1/10 GbE, RJ45
 - 3 Port 3 (Data Port 3) 1/10/25/40/50 GbE, QSFP28
 - 4 Port 4 (Data Port 4) 1/10/25/40/50 GbE, QSFP28
 - 5 VGA port (do not use)
- ICC1 Inter-Cluster-Connect 1; 10 GbE, RJ45
ICC2 Inter-Cluster-Connect 2; 10 GbE, RJ45

Figure 2 4120C front panel layout

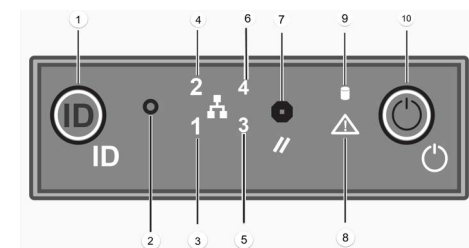


- 1 Hard disk drive bays
- 2 Front video connector
- 3 USB 2.0 or 3.0 ports



Note: For USB key storage only: Although the appliance has 5 USB connectors (two on the front panel and three on the back panel), only one USB connector can be in use at a time.

Figure 3 Front control panel



- 1 System ID button with integrated LED
- 2 NMI button
- 3 ICC1 port activity LED
- 4 ICC2 port activity LED
- 5 Data Port 2 activity LED
- 6 Data Port 1 activity LED
- 7 System cold reset button
- 8 System status LED
- 9 Drive activity LED
- 10 Power button with integrated LED

Hard Drive LED Indicator Patterns

The hard drive has one LED indicator visible from the front of the system — a green LED for disk activity.

For information on Status LEDs, Refer to the *Universal Compute Platform 4120C Installation Guide*.

Front Faceplate

The appliance comes with an optional front panel faceplate attached to the unit. You can monitor the system status indicators with the faceplate in place.

Replace a Power Supply

The appliance supports 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 two power supplies and you have the option to purchase a replacement power supply using the ordering part number 30527 WS-PSI-1100W-01.



Note: The system requires one power supply to operate 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 2](#).

Table 2 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 or only 12VSB on (power supply off) or power supply in cold redundant state	1Hz blinking green
AC power cord unplugged or AC power lost, with a second power supply in parallel still with AC input power	Amber
Power supply warning events where power supply continues to operate — high temp, high power, high current, and slow fan	1Hz blinking amber
Power supply critical event causing a shutdown, failure, OCP, OVP, or fan fail	Amber
Power supply firmware update	2Hz blinking green

To replace a power supply:

- 1 Detach the power supply cord from the power supply that needs to be removed.
- 2 Pull the power supply module using the handle, while pushing the latching tab outward to disengage the power supply from the unit.
- 3 Replace the power supply module into the power supply bay.
- 4 Push the power supply module into the bay until it locks into place.

Initial Network Connection and Configuration



Note: The 4120C must be upgraded to the latest Universal Compute Platform firmware before installing the appliance on the network.

To configure the Inter-Cluster Connection via console port:

- 1 Connect the serial port of the laptop to the 4120C console port. If the laptop does not support RS232 interface, then obtain a USB to RS232 converter cable, which then connects to the RJ45-DB9F cable.
- 2 Using PuTTY, TeraTerm, or another terminal emulator, connect to the serial port connection. Configure the following settings for proper serial port connection:
 - 115200 baud
 - 8 data bits
 - 1 stop bit
 - Parity none
 - Flow control none
- 3 Using the console session, perform the following:
 - At the password prompt, type user: **admin**
 - For the initial password, type: **abc123**
 - Press **Enter**.
- 4 Read the configuration script paragraph and configure the following:
 - Admin password
 - Host attributes settings
 - Time settings
 - DNS settings
 - Data plane settings



Note: The system's default gateway must be pointing to a next hop connective via the service ports.

- 5 At the end of each session, if you type **Yes**, the next session will begin. If you type **No**, the session configuration is repeated.
- 6 Press **Enter**. After the final session is applied, the **Post Installation Configuration** menu opens.
- 7 Type **A** to apply settings and exit or a number for repeating the setup.

- 8 Connect to a port on which management access was enabled during the CLI Wizard setup.
- 9 Open a web browser and, in the browser address bar, type: **https://Your_Mgmt_Ipaddress:5825**. The Universal Compute Platform's login screen is displayed. Refer to the *Universal Compute Platform Deployment Guide* for more information.
- 10 Type the admin and password information that were created when setting up the installation wizard.



Note: An installation wizard is available to help configure the 4120C for new deployments. Refer to the *Universal Compute Platform Deployment Guide* for more information.

Connect the Data Ports

Data ports 1 and 2 are 1/10 GbE RJ45 ports.



Note: Ensure that the device to be connected at the other end of the segment is powered on.

To connect a twisted pair cabling:

- 1 Connect the twisted pair segment to the appliance by inserting the RJ45 connector on the twisted pair segment into the desired RJ45 port.
- 2 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:
 - a Verify that the cabling being used is Category 5 or better (Category 6 or better for 10Gbps connection), with an impedance between 85 and 111 ohms, and a maximum length of 100 meters (328 feet).
 - b Verify that the device at the other end of the twisted pair segment is turned on and is properly connected to the segment.
 - c Verify that the RJ45 connectors on the twisted pair segment have the proper pinouts, and check the cable for continuity.
- 3 If a link is not established, contact Extreme Networks. Data ports 3 and 4 provide QSFP28 ports that can support 40 or 50Gbps transceivers, as well as 1, 10, and 25Gbps transceivers through special adapters. Refer to the optics page for a list of pluggable transceivers supported for the 4120C appliance: <https://optics.extremenetworks.com/>

Install a Transceiver or an Adapter

To install a transceiver or adapter:

- 1 With an antistatic wrist strap attached to your wrist, remove the transceiver from its packaging. If there is a protective dust cover on the transceiver connector, do not remove it at this time.
 - 2 Hold the transceiver so that the connector will seat properly.
 - 3 Align the transceiver with the port slot.
 - 4 Push the transceiver into the port slot until it clicks and locks into place.
- To connect cables to transceiver ports:
- 1 Remove the protective covers from the transceiver and from the connectors on each end of the cable.
 - 2 Insert the cable connector into the transceiver connector until it clicks into place.
 - 3 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.
 - 4 If a transceiver port is unused, install a dust cover.



Warning: Fiber-optic transceivers 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 3 RJ45 Port LEDs (Inter-Cluster-Connect 1 and 2)

LED type	LED pattern	Status
Network speed (right)	Solid amber	1000 Mbps (1 Gbps)
	Solid green	10000 Mbps (10 Gbps)
Link activity (left)	Off	No link
	Solid green	Active link
	Blinking green	Data traffic activity

Table 4 RJ45 Port LEDs (Data Ports 1 and 2)

LED type	LED pattern	Status
Network speed (right)	Solid Amber	1000 Mbps (1 Gbps)
	Solid Green	10000 Mbps (10 Gbps)
Link activity (left)	Off	No link
	Solid Green	Active link
	Blinking Green	Data traffic activity

Table 5 QSFP28 Port LEDs (Data Ports 3 and 4)

LED color and state	Status
Off	Physical link has not been established
Solid yellow	Active physical link
Blinking amber	4Hz
	Problem with the physical link
Solid green	Valid logical (data activity) link with no active traffic
Blinking green	Valid logical link with active traffic (data 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 link:

https://www.intel.com/content/dam/support/us/en/documents/motherboards/server/sb/g23122_004_safety_regulatory.pdf

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This product has been tested and found to comply with the limits for a class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This product uses, generates, and can radiate radio frequency energy and if not installed and used in accordance with the manufacturer's instruction manual, may cause harmful interference to radio communications. Operation of this product in a residential area is likely to cause harmful interference, in which case you will be required to correct the interference at your own expense.

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Intel Corporation
5200 N.E. Elam Young Parkway
Hillsboro, OR 97124-6497
Phone: 1-800-628-8686

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Cet appareil numérique respecte les limites bruits radioélectriques applicables aux appareils numériques de Classe A prescrites dans la norme sur le matériel brouilleur: "Appareils Numériques", NMB-003 édictée par le Ministre Canadien des Communications.

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This product has been determined to be in compliance with 2006/95/EC (Low Voltage Directive), 2004/108/EC (EMC Directive).

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This is a class A product based on the standard of the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). If this equipment is used in a domestic environment, radio disturbance may arise. When such trouble occurs, the user may be required to take corrective actions.

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Hazardous Substances

This product complies with the requirements of Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Supplement to Product Instructions

产品说明书附件

Supplement to Product Instructions

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)	○	○	○	○	○	○

○：表示该有害物质在该部件所有均质材料中的含量均在 SJ/T 11363-2006 标准规定的限量要求以下。
Indicates that the concentration of the hazardous substance in all homogeneous materials in the parts is below the relevant threshold of the SJ/T 11363-2006 standard.

×：表示该有害物质至少在该部件的某一均质材料中的含量超出 SJ/T 11363-2006 标准规定的限量要求。
Indicates that the concentration of the hazardous substance of at least one of all homogeneous materials in the parts is above the relevant threshold of the SJ/T 11363-2006 standard.

对销售之目的所售产品，本表显示，
凯创供应链的电子产品信息产品可能包含这些物质。注意：在所售产品中可能会也可能不会含有所有列出的部件。
This table shows where these substances may be found in the supply chain of Extreme's electronic information products, as of the date of sale of the enclosed product. Note that some of the component types listed above may or may not be a part of the enclosed product.

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In accordance with Directive 2012/19/EU of the European Parliament on waste electrical and electronic equipment (WEEE):

- The symbol above indicates that separate collection of electrical and electronic equipment is required.
- When this product has reached the end of its serviceable life, it cannot be disposed of as unsorted municipal waste. It must be collected and treated separately.
- It has been determined by the European Parliament that there are potential negative effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment.
- 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.

Universal Compute Platform 4120C Appliance

Quick Reference

Notice

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