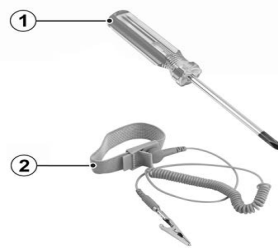


4120 Series Quick Reference

Follow these steps to get the switch ready for use.

For complete installation instructions see the *Extreme 4120 Hardware Installation Guide* at www.extremenetworks.com/documentation/

Necessary Tools

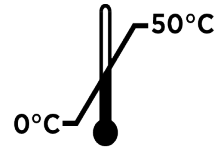


- #2 Phillips screwdriver (magnetic screwdriver recommended)
- ESD-protective wrist strap

1 Prepare the Site

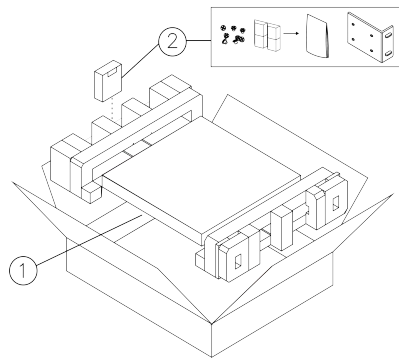
The installation site must meet the following requirements:

- Appropriately grounded power receptacles located within 1.8 m (6 ft.)
- A readily accessible device for disconnecting power, such as a breaker or master switch
- Network cabling within reach
- Clearance of at least 7.6 cm (3.0 in.) on all sides for proper ventilation
- Temperature between 0°C (32°F) and 50°C (122°F) -- or as noted in "Operating Conditions" -- with fluctuations of less than 10°C (18°F) per hour.



2 Unpack the Box

Remove the packing material, and then verify that all of the following components are included:



- Switch
- Accessories box (2-post rack mount Kit (2 rack ears), rubber feet (4), screws (8))

Console cables can be ordered separately. See the 4120 Series data sheet for available options. If the switch appears to be damaged, contact Extreme Networks. See "Getting Help" for more information.

3 Install the Switch

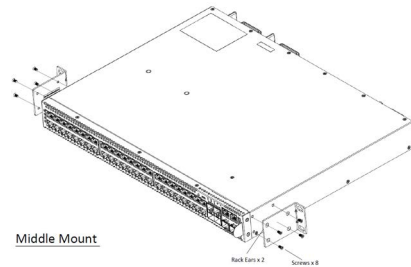
You can install any 4120 Series switch in a standard 19-inch equipment rack.

The 4120 Series switch supports installation in a two-post rack using the mounting brackets provided, to attach the front or the middle of the switch to the posts.

Two-Post Mount

Note: The following diagram shows a mid-mounted configuration. The brackets also support a front-mounted configuration.

- Attach a mounting bracket to each side of the switch. You can attach the brackets at the middle of the switch, as shown, or at the front



- Secure the brackets to the rack posts using rack-mounting screws that are appropriate for the rack (not provided).
- Attach a mounting bracket to one side of the switch, so that its flange (ear) aligns with the rack post. Then secure it to the rack post.
- Attach a mounting bracket to the other side of the switch and then to the rack post.

4 Connect Power

4120 Series switches run on AC power. Connect the switch to a primary power source.



Note: Installing the system as described in this guide meets the protective earth grounding requirements of the National Electrical Code (NEC) UL 60950 and IEC 60950 standards. However, in some cases, it may be necessary to use an alternative grounding method. In these cases, a 14 AWG wire can be connected between the grounding lug on the chassis and a nearby building ground point.

Connecting to the Primary Power Source

To attach the 4120 Series switch to a power source, do the following:

- Connect the AC power cord to the AC power input socket on the power supply and an AC power outlet.
- When power is connected, verify that the switch's PWR LED turns green. If the PWR LED does not turn green, refer to the *Extreme 4120 Hardware Installation Guide* for troubleshooting information.

5 Update and Configure the Switch

Upgrade to a generally available (GA) version of the software before you use this unit. Switch Engine is the default operating system (OS) for the 4120 Series. To connect the switch to the network, upgrade it, and configure it for use, follow the steps in the *Extreme 4120 Hardware Installation Guide*.

Safety Notices



Caution! Shock hazard!
Disconnect all power inputs before servicing.

- Electrical Hazard:** Only qualified instructed or skilled personnel should perform installation, repair, or disassembly procedures.
- Risques d'électrocution:** Seul un personnel qualifié ou expérimenté peut effectuer les procédures d'installation, de réparation ou de démontage.
- Warning:** Extreme Networks power supplies do not have switches for turning the unit on and off. Before servicing, disconnect all power cords to remove power from the device. Make sure that these connections are easily accessible.
- Avertissement:** Cet équipement est conçu pour être installé dans des endroits à accès restreint et peut être installé dans des salles informatiques conformément à l'article 645 du Code national de l'électricité et à la norme NFPA 75, et ne peut être installé dans des endroits où des enfants sont susceptibles d'être présents.

- Warning:** This equipment is designed for installation in restricted access locations and suitable for installation in Information Technology Rooms in accordance with Article 645 of the National Electrical Code and NFPA 75, not suitable for use in locations where children are likely to be present.
- Avertissement:** Cet équipement est conçu pour être installé dans des endroits à accès restreint et peut être installé dans des salles informatiques conformément à l'article 645 du Code national de l'électricité et à la norme NFPA 75, et ne peut être installé dans des endroits où des enfants sont susceptibles d'être présents.
- Warning:** A dedicated Listed circuit breaker rated at 15A is to be used for each power supply connection.
- Avertissement:** Un disjoncteur certifié 15A et dédié à l'installation doit être utilisé pour chaque connexion d'alimentation.



Caution: Before mounting the device, ensure that the rack can support it without compromising stability. Otherwise, personal injury or equipment damage may result.



Caution: Follow appropriate ESD procedures when unpacking and handling the switch. These include unpacking the switch in an ESD-safe environment and wearing appropriate ESD protective gear, such as ESD-safe footwear and ESD wrist straps where appropriate.



Warning: This unit must be installed indoors. The unit, AC power adapter, and its cables are not designed for outdoor use. **The PoE cables must not be distributed outside the building.**



Caution: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.



Warning: Do not use optical instruments to view the laser output. The use of optical instruments to view laser output increases eye hazard. Use only UL/CSA, IEC/EN60825-1/-2 recognized pluggable modules.

Avertissement: Ne pas utiliser d'instruments optiques pour mesurer la puissance laser. L'utilisation d'instruments optiques pour mesurer la puissance laser peut augmenter les risques de dommages oculaires. Utilisez uniquement des modules certifiés UL/CSA, IEC/EN60825-1/-2.

Hardware Components

Figure 1 4120-24MW-4Y Front Panel

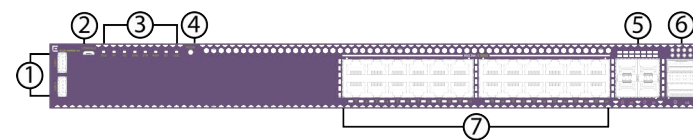
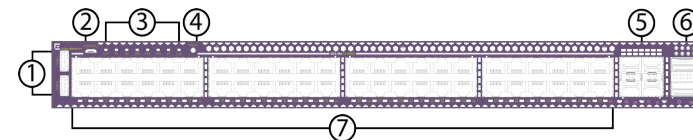
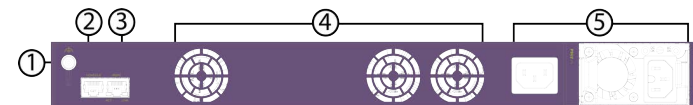


Figure 2 4120-48MW-4Y Front Panel



- USB ports
- Micro-B USB serial console port
- System LEDs
- Mode button
- 25G SFP28 uplink ports
- 100G QSFP28 Universal/stack ports
- 10M/100M/1G/2.5GBaseT 802.3bt Type 4 PoE (90W) ports

Figure 3 4120 Series Rear Panel



- Grounding lug
- RJ-45 Serial console port
- 100/1000BASE-T OOB management port
- Fan modules
- Internal AC power supply and modular power supply

For component details, see the *Extreme 4120 Hardware Installation Guide*.

Operating Conditions

Operating Temperature: 0°C (32°F) to 50°C (122°F) up to 3000 m (10,000 ft)
Storage Temperature: -40°C to 70°C (-40°F to 158°F)
Operating Relative Humidity: 5% to 95% (non-condensing)

Interfaces

Each Extreme 4120 Series switch includes a Micro-B USB serial console port, an RJ-45 serial console port, a 100/1000BASE-T out-of-band management port, two USB Type A storage ports. A two-post rack mount kit (part no. XN-2P-RMKIT-008) is provided with each switch. 4120 Series switches are pre-loaded with the Switch Engine OS.

The following table lists the specific interfaces for each switch.

4120-24MW-4Y	24 port stackable MultiGig switch with 24 10M/100M/1G/2.5GBaseT 90W POE ports, 2 100G QSFP28 Universal/Stack ports, 4 25G SFP28 ports, fixed fans, 1 internal fixed AC power supply unit, and 1 empty modular power supply unit slot.
4120-48MW-4Y	48 port stackable MultiGig switch with 48 10M/100M/1G/2.5GBaseT 90W POE ports, 2 100G QSFP28 Universal/Stack ports, 4 25G SFP28 ports, fixed fans, 1 internal fixed AC power supply unit, and 1 empty modular power supply unit slot.

Power Specifications

4120-24MW-4Y	For internal power supply: 100-240V~, 50/60 Hz, 9.8A Max.
	For external power supply: 100-124/152-240V~, 50/60 Hz, 12/8.5A Max. (for XN-ACPWR-920W-FB-U and XN-ACPWR-1200W-FB-U)
PoE output: 54Vdc, 1.7A Max., 90W Max. per port, 24 ports, Total 1540W Max.	
4120-48MW-4Y	For internal power supply: 100-120/200-240V~, 50/60 Hz, 12/8.5A Max.
	For external power supply: 100-124/152-240V~, 50/60 Hz, 12/8.5A Max. (for XN-ACPWR-1200W-FB-U) 100-120/200-240V~, 50/60 Hz, 12/9.9A Max. (for XN-ACPWR-2000W-FB-U)
PoE output: 54Vdc, 1.7A Max., 90W Max. per port, 48 ports, Total 2180W Max.	

Power Supply Options

XN-ACPWR-920W-FB-U	920W AC PoE power supply, front-to-back airflow for model 4120-24MW-4Y.
XN-ACPWR-1200W-FB-U	1200W AC PoE power supply, front-to-back airflow for models 4120-24MW-4Y and 4120-48MW-4Y.
XN-ACPWR-2000W-FB-U	2000W AC PoE power supply, front-to-back airflow for model 4120-48MW-4Y.

Available Console Cables and Bluetooth Adapter

XN-RJ45-USBC-CONSOLE-CBL	RJ45 to USB-C console cable (6ft)
XN-RJ45-USBA-CONSOLE-CBL	RJ45 to USB 2.0 Type A male console cable (6ft)
XN-RJ45-DB9-CONSOLE-CBL	RJ45 to DB9 console cable (6ft)
XN-MICRO-USB-USBA	Micro-USB 2.0 to USB 2.0 Type A cable (6.6 ft)
XN-USB-BT500-ADAPTER	Bluetooth 5.0 USB adapter

Note: Ordered separately

Available Rack-Mount Kits

XN-2P-RMKIT-008	Two-post rack mount kit for 4120 Series switches
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Getting Help

For additional support related to 4120 Series switches or this document, contact Extreme Networks using one of the following methods:

Product Documentation	https://www.extremenetworks.com/documentation/
Global Technical Assistance Center (GTAC)	Phone: 1-800-998-2408 (toll-free in U.S. and Canada) or +1-408-579-2826. For the support phone number in your country, visit: https://www.extremenetworks.com/support/contact/
GTAC Knowledge	Get on-demand and tested resolutions from the GTAC Knowledgebase, or create a help case if you need more guidance. Visit: https://gtacknowledge.extremenetworks.com/
The Hub	A forum for Extreme customers to connect with one another, get questions answered, share ideas and feedback, and get problems solved. The community is monitored by Extreme Networks employees, but is not intended to replace specific guidance from GTAC. Visit: https://community.extremenetworks.com
Support Portal	Manage cases, downloads, service contracts, product licensing, and training and certifications. Visit: https://support.extremenetworks.com/

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For additional information on Extreme Networks trademarks, please see: www.extremenetworks.com/company/legal/trademarks/

Warranty

Warranty information for 4120 switches is located online at: www.extremenetworks.com/support/policies/

Regulatory and Compliance Information

Federal Communications Commission (FCC) Notice

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment 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 equipment uses, generates, and can radiate radio frequency energy and if not installed in accordance with the operator's manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause interference in which case the user will be required to correct the interference at his own expense.

WARNING: Changes or modifications made to this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Industry Canada Notice CAN ICES-3 (A)/NMB-3(A)

This digital apparatus does not exceed the class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la class A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

Class A ITE Notice

WARNING: This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference.

Product Safety

This product complies with the following international safety standards:

- UL 62368-1
- UL 60950-1
- CAN/CSA C22.2 No. 62368-1-19
- CAN/CSA C22.2 No. 60950-1-07
- IEC 62368-1
- IEC 60950-1
- EN 62368-1
- 2014/35/EU
- CNS 15598-1
- GB 4943.1

Optical Module Compliance

Extreme Networks pluggable optical modules and direct-attach cables meet the following regulatory requirements:

- UL and/or CSA registered component for North America
- Class 1 or Class 1M Laser Product
- FCC 21 CFR Chapter 1, Sub-chapter J in accordance with FDA & CDRH requirements
- IEC/EN 60825-1, IEC/EN 60825-2 or later, European Standard

Korea EMC Statement

이 기기는 업무용 환경에서 사용할 목적으로 적합성평가를 받은 기기로서 가정용 환경에서 사용하는 경우 전파간섭의 우려가 있습니다.

Australia (RCM)

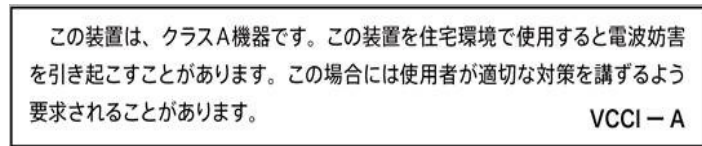
WARNING: This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference.

Electromagnetic Compatibility (EMC)

This product complies with the following: FCC 47 CFR Part 15 Subpart B Class A (US), ICES-003 (Canada), EN 55032 (ITE Emissions), EN 55035 (ITE Immunity), EN 61000-3-2 (Harmonics), EN 61000-3-3 (Flicker), 2014/30/EU (EMC Directive), EN 300 386 (Telecom), EN 55011 (ISM), EN 61000-6-2 (Ind. Immunity), EN 61000-6-4 (Ind. Emissions), RCM (Australia), VCCI (Japan), MSIP KCC (Korea), BSMI (Taiwan), ANATEL (Brazil), TEC (India), CQC (China).

VCCI Notice

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.



BSMI EMC Statement – Taiwan

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Taiwan BSMI 報關義務人

申請人: 愛爾蘭商極進網絡技術行動有限公司台灣分公司

地址: 臺北市松山區南京東路 4 段 126 號 5 樓

警告：在居住环境中, 运行此设

备可能会造成无线电干扰。

警告:為避免電磁干擾, 本產品

不應安裝或使用於住宅環境。

Battery Warning- Taiwan

警告

如果更換不正確之電池型式會有爆炸的風險，

請依製造商說明書處理用過之電池。



Battery Notice

Warning: This product contains a battery used to maintain product information. If the battery should need replacement it must be replaced by Service Personnel. Please contact Technical Support for assistance. Risk of explosion if battery is replaced by an incorrect type. Dispose of expended battery in accordance with local disposal regulations.

Avertissement: Ce produit renferme une pile servant à conserver les renseignements sur le produit. Le cas échéant, faites remplacer la pile par le personnel du service de réparation. Veuillez communiquer avec l'assistance technique pour du soutien.

Il y a risque d'explosion si la pile est remplacée par un type de pile incorrect. Éliminez les piles usées en conformité aux règlements locaux d'élimination des piles.

Hazardous Substances- China and Taiwan BSMI RoHS

Guidance concerning the China and Taiwan BSMI RoHS (Restriction of Hazardous Substances) directive for this Extreme Networks* product can be found on the following web page:

<https://www.extremenetworks.com/support/restriction-hazardous-substances/>

The page contains tables detailing the presence of substances defined by the RoHS directive.

Hazardous Substances - EU

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.

European Waste Electrical and Electronic Equipment (WEEE) Notice



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

- 1 The symbol above indicates that separate collection of electrical and electronic equipment is required.
- 2 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.
- 3 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.
- 4 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 Customer Support at +353 61 705500 (Ireland).

Extreme Networks

4120 Series

Quick Reference

4120-24MW-4Y

4120-48MW-4Y

ExtremeCloud™ IQ

Scan to learn more about **ExtremeCloud IQ** and **ExtremeCloud IQ - Site Engine**.

Your new switch can be managed by ExtremeCloud IQ if cloud management is preferred as well as ExtremeCloud IQ - Site Engine if locally deployed management is preferred.



P/N 9037909-00 Rev. AB

