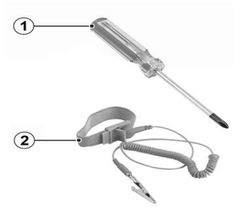
Extreme 8730 Quick Reference

Follow these steps to get the switch ready for use.

For complete installation instructions see the *Extreme 8730 Installation Guide* at www.extremenetworks.com/support/documentation/

Necessary Tools

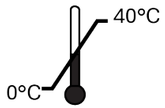


1 #2 Phillips screwdriver (magnetic screwdriver recommended)
2 ESD-protective wrist strap

1 Prepare the Site

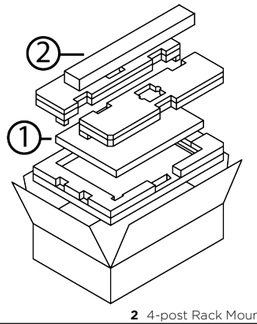
The installation site must meet the following requirements:

- 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 of 7.6 cm (3.0 in.) on all sides for proper ventilation
- Temperature between 0°C (32°F) and 40°C (104°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:



1 Switch
2 4-post Rack Mount Kit

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

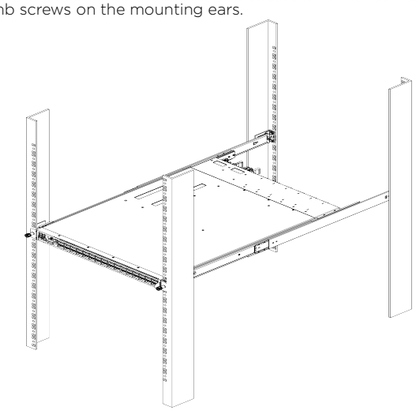
3 Install the Switch

You can install any Extreme 8730 switch in a standard 19-inch equipment rack.

Mount the Extreme 8730 switch in a standard equipment rack, in either of the following ways:
- Four-post mount, using the mounting kit provided.
- Two-post mount, using mounting brackets to attach the front or the middle of the switch to the posts. The two-post mount kit can be ordered separately.

Four-Post Mount

1 Separate the inner sliding rails from the outer rails by extending the rails and pulling on the disconnect latch. Note which direction the sliding rails slide from the outer rails for correct installation.
2 Attach the bracket to the rack, securing it with the M5 screws.
3 Attach the inner rail to the chassis using the M4 screws.
4 To install in the front of the rack, attach the mounting ear to the chassis, using #6-32 screws, so that it is flush with the front of the rack. To install in the rear of the rack, attach the mounting ear to the chassis, using #6-32 screws, so that it is flush with the rear of the rack.
5 Repeat steps 2 through 4 for the other side of the chassis.
6 Insert the chassis into the rail kit and secure it to the rack using the thumb screws on the mounting ears.

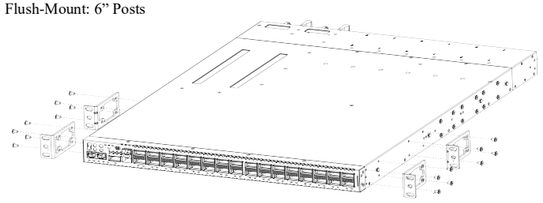


Two-Post Mount

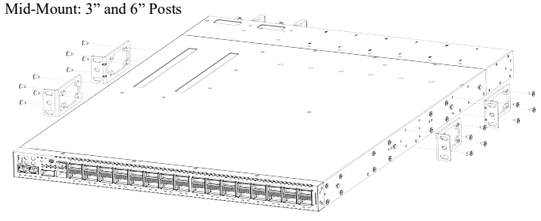
Note: The following diagrams show a flush-mounted and a mid-mounted configuration. The Extreme 8730 supports flush mounting for 6" wide rack posts, and middle mounting for 3" & 6" wide rack posts.

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

Flush-Mount: 6" Posts



Mid-Mount: 3" and 6" Posts



2 Secure the brackets to the rack posts using rack-mounting screws that are appropriate for the rack (not provided).
3 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.
4 Attach a mounting bracket to the other side of the switch and then to the rack post.

4 Connect Power

Extreme 8730 switches run on AC or DC 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/CSA/IEC/EN 62368-1 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 Extreme 8730 switch to a power source, do the following:
1 Connect the AC power cord to the AC power input socket on the power supply and an AC power outlet.
2 For DC powered supplies, verify that the DC circuit is de-energized and then do the following:
  a Identify the grounding stud on the DC power supply. The grounding stud is next to the DC input connector, identified by the international symbol for earth ground.
  b Using the nut and washer provided, connect the ring terminal end of the ground wire to the grounding stud on the DC power supply. Use green and yellow stranded copper wire, sized at least 14 AWG.
  c Connect the other end of the ground wire to a reliable earth ground.
  d Connect the DC power input cables to the DC input connector provided. Use copper wires rated for at least 60°C and sized between 14 AWG and 8 AWG.
  e Energize the circuit.
3 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 8730 Installation Guide* for troubleshooting information.

5 Upgrade and Configure the Switch

Upgrade to a generally available (GA) version of the software before you use this unit. See the *Extreme 8730 Installation Guide* for all OS update procedures.

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: Les alimentations d'Extreme Networks n'ont pas d'interrupteurs pour allumer ou éteindre l'appareil. Avant l'entretien, débranchez tous les cordons d'alimentation pour couper l'alimentation de l'appareil. Assurez-vous que ces connexions sont facilement accessibles.

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 (for DC PSU used 30A).
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.

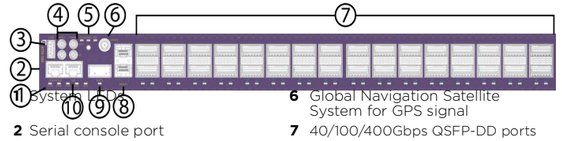
Caution: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

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.

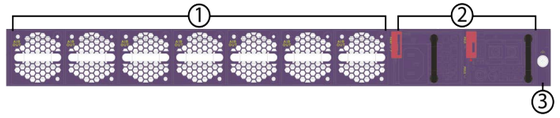
Hardware Components

Figure 1 Extreme 8730 Switch: Front Panel



1 System LEDs
2 Serial console port
3 USB port
4 HD-BNC connector for Time synchronization, 1PPS and 10MHz
5 Mode button
6 Global Navigation Satellite System for GPS signal
7 40/100/400Gbps QSFP-DD ports
8 Management ports
9 Advanced services port for the processor to offload to external appliance
10 TOD (Time of Day), 1PPS signal inputs

Figure 2 Extreme 8730 Switch: Rear Panel



1 Fan modules
2 Power supply slots
3 Grounding point

For component details, see the *Extreme 8730 Installation Guide*.

Operating Conditions

Operating Temperature:
0°C (32°F) to 40°C (104°F) up to 2,000 m (6,000 ft)

Storage Temperature:
-40°C to 70°C (-40°F to 158°F)

Operating Relative Humidity:
5% to 95% (non-condensing)

Interfaces

Each Extreme 8730 switch has an RJ-45 serial console port, two 1/10 SFP+ out-of-band management ports, and a USB Type A storage port. A four-post rack mount kit (part no. XN-4P-RKMT302) is provided with each switch.
The following table lists the specific interfaces for each switch.

8730-32D (base)	32 40/100/400Gbps QSFP-DD ports, 2 empty power supply slots, 7 empty fan slots.
8730-32D-AC-F	32 40/100/400Gbps QSFP-DD ports, dual AC power supplies, 7 fan units, front-to-back airflow.
8730-32D-AC-R	32 40/100/400Gbps QSFP-DD ports, dual AC power supplies, 7 fan units, back-to-front airflow.
8730-32D-DC-F	32 40/100/400Gbps QSFP-DD ports, dual DC power supplies, 7 fan units, front-to-back airflow.
8730-32D-DC-R	32 40/100/400Gbps QSFP-DD ports, dual DC power supplies, 7 fan units, back-to-front airflow.

Power Specifications

All models	AC input: 100-120/ 200-240VAC, 50-60Hz, 12/ 6A Max. for each PSU. DC input: -48 to -60VDC, 30A Max. for each PSU.

Power Supply and Fan Options

XN-ACPWR-1600W-FB- A	1600W AC power supply, Front-to-Back airflow
XN-ACPWR-1600W-BF- A	1600W AC power supply, Back-to-Front airflow
XN-DCPWR-1600W-FB- A	1600W DC power supply, Front-to-Back airflow
XN-DCPWR-1600W-BF- A	1600W DC power supply, Back-to-Front airflow
XN-FAN-006-FB	Fan unit, Front-to-Back airflow
XN-FAN-006-BF	Fan unit, Back-to-Front airflow

Available Rack-Mount Kits

XN-4P-RKMT302	Four-post rack mount kit for 8730-32D switches (included)
XN-2P-RMKIT-005	Two-post rack mount kit for 8730-32D switches

Console Cables

XN-RJ45-USBC-CONSOLE-CBL	RJ45 to USB Type C console cable (6ft)
XN-RJ45-USBA-CONSOLE-CBL	RJ45 to USB Type A console cable (6ft)
XN-RJ45-DB9-CONSOLE-CBL	RJ45 to DB9 console cable (6ft)

Getting Help

For additional support related to Extreme 8730 switches or this document, contact Extreme Networks using one of the following methods:

Product Documentation	https://www.extremenetworks.com/support/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/

Notice

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

Warranty

Warranty information for 8730-32D 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. 62368-1-14
- CAN/CSA C22.2 No. 60950-1-07
- IEC 62368-1
- EN 62368-1
- 2014/35/EU
- CNS 15598-1
- GB 4943.1-2022

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 60825-1:2007, IEC/EN 60825-2:2004+A1+A2 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), RCM (Australia), VCCI (Japan), MSIP KCC (Korea), BSMI (Taiwan), ANATEL (Brazil), CQC (China), TEC (India).

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.

この装置は、クラスA機器です。この装置を住宅環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。 VCCI－A

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無限公司台灣分公司
地址：臺北市松山區南京東路4段126號5樓
電話：02-25782562

警告使用者:

警告:為避免電磁干擾,本產品不應安裝或使用於住宅環境。

警告:在居住环境中,运行此设备可能会造成无线电干扰。

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.

It is the users' responsibility to utilize the available collection system to ensure WEEE is properly treated. Information on the product take back program, the treatment and recycling facilities, and detailed information regarding the components, materials, and location of hazardous substances is available free of charge upon request by contacting green@extremenetworks.com.

Extreme Networks

Extreme 8730

Quick Reference

8730-32D
8730-32D-AC-F
8730-32D-AC-R
8730-32D-DC-F
8730-32D-DC-R

P/N 9037972-00 Rev. AB