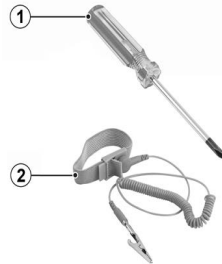


X435 Series Quick Reference

Follow these steps to get the switch ready for use.

For complete installation instructions see *EXOS30 Hardware Installation Guide* at www.extremenetworks.com/documentation

Necessary Tools

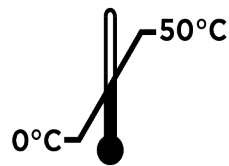


- 1 M3 and/or M4 #2 Phillips screwdriver (magnetic screwdriver recommended)
- 2 ESD-protective wrist strap

1 Prepare the Site

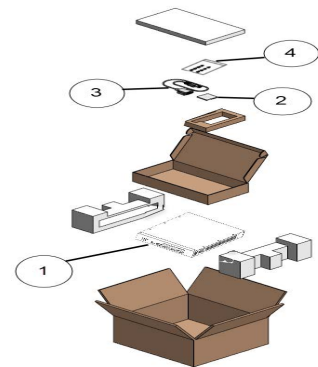
The installation site must meet the following requirements:

- 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 50°C (122°F) with fluctuations of less than 10°C (18°F) per hour



2 Unpack the Box

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



- 1 Switch
- 2 Silicone feet
- 3 Console cable
- 4 Screws for attaching brackets

If the switch appears to be damaged, contact Extreme Networks. See "" for more information.

Extreme Networks does not include power input cords with this product. To purchase the correct power cord for your country, refer to www.extremenetworks.com/product/powercords/.

3 Install the Switch



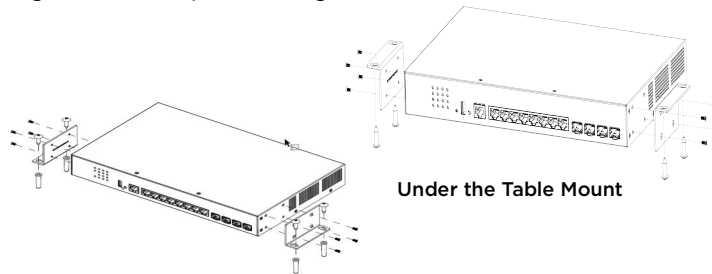
Note: All wood screws are M4 with #2 Phillips head. All machine screws are M3 with #2 Phillips head. Anchor Spec: 27.8mm *9.5mm x 5.4mm + CL (PE) Screw Spec: T+T1+M5-12T x 19+N1 (SWRCH18A)

Under Table Mounting and Wall Mounting

Note: Orientation is limited for wall mounting. The AC inlet must face upward.

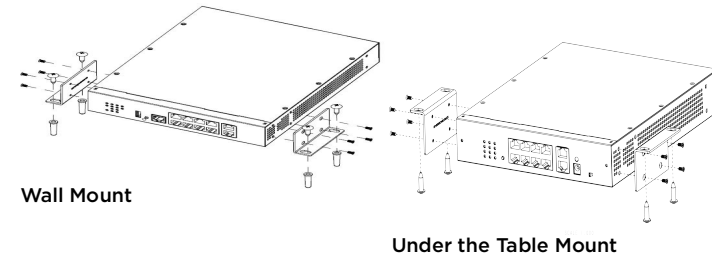
- 1 Install the short brackets onto a wall or under a table with accessory screws.
- Use the short brackets as a template and mark the holes to be used. Extreme recommends using two holes per short rack ear.
- Drill the holes and attach the brackets using four wood screws and four anchors, (not provided in the accessory kit).

Figure 1 X435 8T/8P Mounting



Wall Mount

Figure 2 X435 8P-2T-W Mounting



Wall Mount

- 2 Attach the short brackets to both sides of the switch with accessory eight M3 screws.

Single Rack Mounting

This procedure illustrates single rack mounting. The X435-24T/24P switches include the 2 post rack mount kit XN-2P-RMKIT-004. The X435-8T/8P and X435-8P-2T-W include the Wall Mount kit 16573. Rack mount kits can be ordered separately. Refer to the "Available Rack-Mount Kit" table for details..

- 1 Attach the short mounting brackets to the sides of the switch using four M3 screws (included) for each bracket.

Figure 3 X435-8T/8P Single Rack Mounting

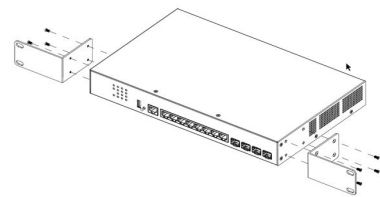


Figure 4 X435-24T/24P Single Rack Mounting

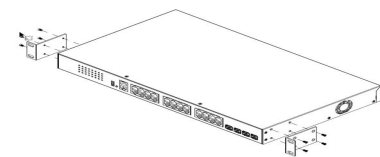
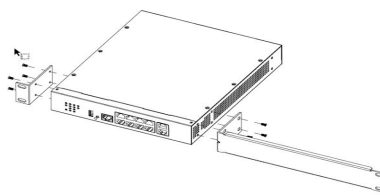


Figure 5 X435-8P-2T-W Single Rack Mounting



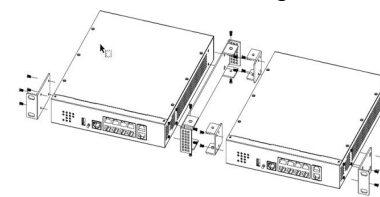
- 2 Align the holes in the brackets with the rack post holes.
- 3 Secure the switch to each post using eight included M3 rack-mounting screws.

Dual Rack Mounting

This procedure illustrates dual rack mounting for the X435-8P-2T-W switch.

- 1 Attach the two short brackets to the outer sides of the switches using four M3 screws per bracket
- 2 Attach two additional brackets to the inner side of the right switch using two M3 screws per bracket.
- 3 Attach the final long bracket to the inner side of the left switch using four M3 screws inserted horizontally.

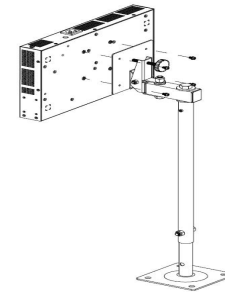
Figure 6 X435-8P-2T-W Dual Rack Mounting



- 4 Align the switches using the holes in the three inside brackets.
- 5 Attach the inside brackets using four M3 screws inserted vertically.

VESA Mounting

Note: Limited orientation for VESA mounting, RJ-45 ports downward. The VESA mount comes with four M4 screws and can be used with the X435-8T-4S, X435-8P-4S, and X435-8P-2T-W models. Use the included screws with the VESA mount:



4 Connect Power

X435 Series switches run on either AC power or PoE, depending on the model.



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 60950-1 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 your X435 Series switch to an AC power source, do the following:

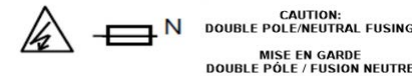
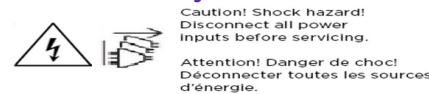
- 1 Connect the AC power cord to the AC power input socket on the power supply and an AC power outlet.
- 2 When power is connected, verify that the switch's PWR LED turns green. If the PWR LED does not turn green, refer to *EXOS30 Hardware Installation Guide* for troubleshooting information.

Power Source	Description
Power over Ethernet (PoE)	The X435-8P-2T-W model is powered through the 2 1G 802.3bt PD up-link ports.

5 Update and Configure the Switch

To connect to the network, upgrade the operating-system software to the appropriate version, and configure the switch for use, follow the steps in www.extrconfig.com/exos.

Safety Notices



Electrical Hazard: Only qualified personnel should perform installation procedures.

Risques d'électrocution: Seul un personnel qualifié doit effectuer les procédures d'installation.

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:** Extreme Networks alimentations ne sont pas des interrupteurs pour allumer l'appareil et en dehors. 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: A dedicated Listed circuit breaker rated at 15A is to be used for each power supply connection. **Avertissement:** Un disjoncteur cotée dédiée évalué à 15A doit être utilisée pour chaque connexion d'alimentation.

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



Warning: 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: 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 voir la sortie du laser. L'utilisation de instruments optiques pour afficher la sortie laser augmente les risques oculaires. Utilisez uniquement UL/CSA, IEC/EN60825-1 /-2 reconnu modules enchâssables.

Hardware Components

Figure 7 X435 Series: Front Panel (8P model shown)



- 1 System LEDs
- 2 USB A port
- 3 RJ-45 console port
- 4 10/100/1000BASE-T PoE+ ports
- 5 1/2.5G SFP ports*

Figure 8 X435 Series: Front Panel (8P-2T-W model shown)



- 1 System LEDs
- 2 USB A port
- 3 RJ-45 console port
- 4 10/100/1000BASE-T PoE+ ports
- 5 10/100/1000BASE-T 802.3bt ports

Figure 9 X435 Series: Front Panel (24P model shown)



- 1 System LEDs
- 2 USB A port
- 3 RJ-45 console and management ports
- 4 10/100/1000BASE-T PoE+ ports
- 5 1/2.5G SFP ports*

Figure 10 X435 Series: Rear Panel (8T model shown)



Figure 11 X435 Series: Rear Panel (8P-2T-W model shown)



Figure 12 X435 Series: Rear Panel (24T model shown)



Operating Conditions

Operating Temperature: 0°C (32°F) to 40°C (104°F) up to 3000 m (9842 ft) for X435-8T-4S and X435-8P-2T-W
0°C (32°F) to 40°C (104°F) up to 3000 m (9842 ft) for X435-8P-4S
0°C (32°F) to 45°C (113°F) up to 3000 m (9842 ft) for X435-24T/24P

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

Operating Relative Humidity: 10% to 93% (non-condensing)

Interfaces

Each X435 Series switch includes an RJ-45 serial console port and 1 USB A port for connecting to memory. Each switch also includes an EXOS L2 Edge license. Additional interfaces include:

X435-8T-4S	8 10/100/1000BASE-T half/full duplex ports, 4 1/2.5G unpopulated SFP ports*, 1 AC power supply, 1 wall mount kit 16573
X435-8P-4S	8 10/100/1000BASE-T half/full duplex PoE+ ports, 4 1/2.5G unpopulated SFP ports*, 1 AC power supply, 1 wall mount kit 16573
X435-8P-2T-W	8 10/100/1000BASE-T half/full duplex PoE+ ports, 2 10/100/1000BASE-T 802.3bt ports, PoE powered, 1 wall mount kit 16573
X435-24T-4S	24 10/100/1000BASE-T half/full duplex ports, 4 1/2.5G unpopulated SFP ports*, one 10/100/1000Mb OOB management port, 1 AC power supply, 1 rack mount kit XN-2P-RMKIT-004
X435-24P-4S	24 10/100/1000BASE-T half/full duplex PoE+ ports, 4 1/2.5G unpopulated SFP ports*, one 10/100/1000Mb OOB management port, 1 AC power supply, 1 rack mount kit XN-2P-RMKIT-004

Note: *2.5Gb uplink support is a future capability

Available Rack-Mount Kit

16573	200-Series wall mount for 8-port X435 switches
XN-2P-RMKIT-002	Two-post fixed rack mount kit for X435-8T/8P
XN-2P-RMKIT-003	Two-post fixed rack mount kit for X435-8P-2T-W
XN-2P-RMKIT-004	Two-post fixed rack mount kit for X435-24T/24P
16572	200-Series dual rack mount kit for X435-8P-2T-W

Power Specifications

X435-8T-4S	100 to 240 V, 50/60 Hz, 0.7 A
X435-8P-4S	100 to 240 V, 50/60 Hz, 3 A; PoE output: 54 Vdc, 0.55 A Max., 30W Max. per port, 8 ports Total 120W USB output: 5 Vdc, 0.5 A, 2.5W
X435-8P-2T-W	DC PS input: -45 - -57 VDC, 1.8 A x 2 PoE output: 54 Vdc, 0.55 A Max., 30W Max. per port, 8 ports Total 100W USB output: 5 Vdc, 0.5 A, 2.5W
X435-24T-4S	100 to 240 V, 50/60 Hz, 0.7 A
X435-24P-4S	100 to 240 V, 50/60 Hz, 6 A; PoE output: 54 Vdc, 0.55 A Max., 30W Max. per port, 24 ports Total 360W USB output: 5 Vdc, 0.5 A, 2.5W

Getting Help

For additional support related to X435 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: http://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: http://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 X435 Series series 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.

Equipment Intended for Installation in Information Technology Equipment Rooms

Suitable for installation in Information Technology Rooms in accordance with Article 645 of the National Electrical Code and NFPA 75.

Peut être installé dans des salles de matériel de traitement de l'information conformément à l'article 645 du National Electrical Code et à la NFPA 75.


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 2nd Ed, 2014-12-01
- UL 60950-1 2nd edition, A2:2014
- CAN/CSA-C22.2 No.62368-1-14 2nd Ed.
- IEC/EN 62368-1 2nd, IEC/EN 60950-1 A2
- EN 62368-1:2014/A11:2017
- 2014/35/EU
- CNS 14336-1

	CAUTION Hot surface Do not touch	Warning: The X435 switch may be hot to the touch during normal operation. Attention: Le X435 peut être chaude au toucher pendant le fonctionnement normal.
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	Warning: The X435 switch is designed for installation in restricted access locations.
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	Attention: Le X435 est conçu pour une installation dans des endroits à accès restreint.
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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 60825-1:2014, IEC/EN 60825-2:2004+A1+A2 or later, European Standard

Korea EMC Statement

이 기기는 업무용 환경에서 사용할 목적으로 적
합성평가를 받은 기기로서 가정용 환경에서 사
용하는 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), EN55011 (CISPR Emissions), EN 55032 (ITE Emissions), EN 55024 (ITE Immunity), EN 55035 (Multimedia Equipment Immunity), EN 61000-3-2 (Harmonics), EN 61000-3-3 (Flicker), EN61000-6-2 (Immunity), EN61000-6-4 (Emissions), 2014/30/EU (EMC Directive), EN 300 386 (Telecom), RCM (Australia), VCCI (Japan), MSIP KCC (Korea), BSMI (Taiwan), ANATEL (Brazil), CCC (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.

<p>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。</p> <p style="text-align: right;">VCCI - A</p>
--

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: 香港商極進網路有限公司台灣分公司

地址: 臺北市松山區復勢里南京東路4段126號5樓

警告使用者:

此為甲類資訊技術設備，於居住環境中使用時，可能會造成射頻擾動，在此種情況下，使用者會被要求採取某些適當的對策。


此为A级产品，在生活环境中，该产品可能会造成无线电干扰。在这种情况下，可能需要用户对干扰采取切实可行的措施。

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.
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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:

www.extremenetworks.com/support/documentation/restriction-hazardous-substances/

The page contains tables detailing the presence of 10 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):

- 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 Customer Support at +353 61 705500 (Ireland).

Extreme Networks

ExtremeSwitching X435 Series

Quick Reference

X435-8T-4S

X435-8P-4S

X435-8P-2T-W

X435-24T-4S

X435-24P-4S

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.



F/N 9036270-00 Rev. 05

