

X670-G2 Series Switch Quick Reference



Electrical Hazard: Only qualified personnel should perform installation procedures.

The full *Extreme Networks Summit Family Hardware Installation Guide* is available for download at the support website at: www.extremenetworks.com/documentation

Hardware Components

Figure 1 displays the panel ports, LEDs, and hardware components on the X670-G2-72x switch. Figure 2 displays the panel ports, LEDs, and hardware components on the X670-G2-48x-4q switch. See the *Extreme Networks Summit Family Hardware Installation Guide* for component details.

Figure 1 X670-G2-72x Front and Rear Panels

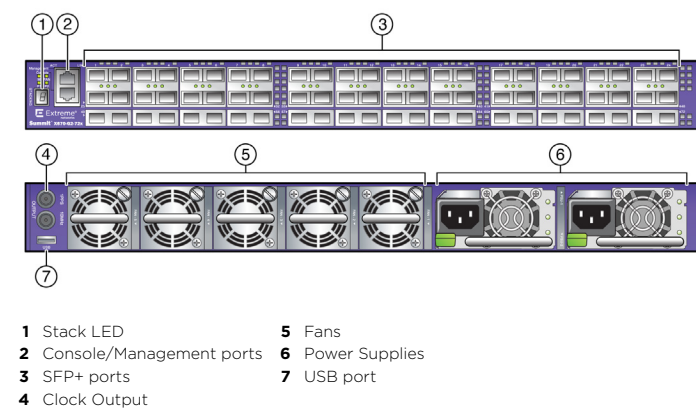
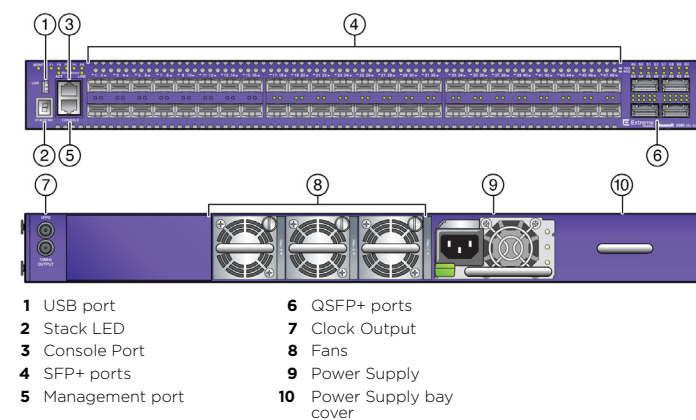


Figure 2 X670-G2-48x-4q Front and Rear Panels



Installation Site Requirements

The installation site must be within reach of the network cabling and meet the requirements listed below:

- Appropriate grounded power receptacles must be located within 6 feet of the site.
- A temperature of between 0°C (32°F) and 45°C (113°F) must be maintained at the installation site with fluctuations of less than 10°C (18°F) per hour.



Caution: To ensure proper ventilation and prevent overheating, leave a minimum clearance space of 5.1 cm (2.0 in.) on both sides of the device.



Warning: A readily accessible disconnect device shall be incorporated in the building installation wiring.

Handling the Switch



Caution: The switch can be damaged by electrostatic discharge.

To prevent electrostatic damage, attach an electrostatic discharge (ESD) wrist strap to your wrist before handling the switch. Unpack the switch as follows:

- 1 Remove the packing material protecting the switch.
- 2 Remove the tape seal on the non-conductive bag to remove the switch.

- 3 Perform a visual inspection of the switch for any signs of physical damage. Contact Extreme Networks if there are any signs of damage. See "Getting Help" for more information on contacting Extreme Networks.

Installing the Summit X670-G2 Series Switch

You can install a Summit X670-G2 Series switch in a rack. There are four possible rack mounting configurations, depending upon whether:

- The switch I/O ports or the power supply side of the device face front
- The device is mounted flush with the rack posts or mid-mounted

Verify Fan Module and Power Supply Air Flow



Caution: Ensure that the power supply and fan module air flow are in the same direction in order to properly cool the installed X670-G2 system.

Air flow direction is always from the perspective of the cool air intake aisle (front of rack) to the hot air exhaust aisle (rear of rack). Air flow can be either from:

- The switch I/O port side to the power supply side (front to back)
- The power supply side to the switch I/O port side (back to front)

Before installing the power supply into the Summit X670-G2 Series switches, perform a visual verification that both power supply and fan module air flows agree with the intended configuration.

Secure the Summit X670-G2 Series switches to the Rack



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



Note: The rack mounting brackets provide two holes for securing the Summit X670-G2 Series switch to the rack. Use two screws or fasteners appropriate to your rack on each side when securing the X670-G2 Series switch to the rack. It is recommended that power supplies be installed after Summit X670-G2 Series switches have been secured to the rack to minimize weight that must be supported when installing rack screws.

To secure the Summit X670-G2 Series switches to the rack:

- 1 Attach the mounting brackets to the sides of the switch using six screws for each bracket.
- 2 Align the rack mount ear holes with the front rack post holes.
- 3 Secure the Summit X670-G2 Series switches to each rack post with at least two screws or fasteners appropriate to the rack.



Note: If using one power supply, it can be installed in either of the two power supply bays. If only one power supply is used, be sure to insert a blank cover on the unused power supply bay. The blank cover is provided with the switch.

Install SFP+ and QSFP+ Pluggable Transceivers



Warning: Fiber-optic SFP+ and QSFP+ ports use Class 1 or Class 1M lasers. LASER RADIATION DO NOT EXPOSE USERS OF TELESCOPIC OPTICS CLASS 1 OR 1M LASER PRODUCT Do not use optical instruments to view the laser output. The use of optical instruments to view laser output increases eye hazard.

To install a transceiver in a Summit X670-G2 Series switch:

- 1 Attach the anti-static wrist strap. Refer to the instructions on the anti-static wrist strap package.
- 2 Carefully align the transceiver with the port slot and push the transceiver into the port slot until the transceiver clicks and locks into place.

Connect Power to the Switch



Warning: Extreme Networks power supplies do not have switches for turning the unit on and off. Disconnect all power cords to remove power from the device. Make sure that these connections are easily accessible.



Warning: A dedicated Listed circuit breaker rated at 15A is to be used for each power supply connection.

After you have installed the power supply modules, you can connect to a single, primary source of power, or to two sources of power for redundancy. To power-up your X670-G2 Series switch:

- 1 Attach the power cord from your redundant power supply into the X670-G2 Series switch's power supply receptacle.

- 2 Once power is connected, verify that the PSU LED (P1 and/or P2) turns green. If the PSU LED does not turn green, refer to the *Extreme Networks Summit Family Hardware Installation Guide* for troubleshooting information.

Selection of Power Cords

Extreme Networks does not include any AC power input cords. To purchase the correct power cord for your specific country, refer to www.extremenetworks.com/product/powercords/ for power cord details to purchase a cord from Extreme Networks or your local supplier.

Initial Network Connection and Configuration

Once you have connected power to the switch and verified LED activity, complete the setup process as follows:

- 1 Connect a management station (your PC) to the console port using either an Ethernet to serial adapter or DB-9 serial cable.



Note: If your PC does not have a serial port, you will need a USB to serial adapter. to connect to the console port of the switch.

- 2 Verify that the switch system LEDs are on (solid green or blinking green).
- 3 Using PuTTY, TeraTerm, or other terminal emulator, connect to the switch using the serial port connection. Be sure that your serial connection is set properly:
 - 9600 baud
 - 8 data bits
 - 1 stop bit
- 4 Using the terminal emulator window connected through the console port, perform the following:
 - a At the password prompt, press ENTER (RETURN) twice.
 - b Enter user: admin
 - c For the initial password, simply press ENTER.
 - d Follow the screen prompts for initial configuration. Press ENTER to retain defaults or make changes as needed.
 - e Enter the `show version` command. Record the switch serial number. The following is example output with the serial number in bold:

```
Transit.3 # show version
Switch : 800444-00-05 0723G-01234 Rev 5.0 BootROM:
```
 - f Enter the command `show switch`. If the software image on the switch is the version you need, then proceed to "Optional CLI Commands". If it is not the version you need, then proceed to the next step to download the version you need.
- 5 Go to Extreme Networks e-support at <https://esupport.extremenetworks.com> If you are not already registered with the support site, create a new account. After registering, you will be taken back to the main eSupport web page.
- 6 After logging in, go to the product registration page: <http://extrwebapps.extremenetworks.com/Webapps/Public/ProductReg/>
- 7 Select your switch from the list and enter the serial number of the switch. exactly as it appeared in the `show switch` command output.
- 8 Using your eSupport login credentials, download the software to your PC from the software download page at <https://extremeportal.force.com/ExtrDownloadLanding>
- 9 Save the downloaded file to your PC. Be sure it is saved as a .xos file type.
- 10 Using the terminal session, connect back to the switch via the console session, and connect an Ethernet cable to the management port on the switch to the Ethernet port on your PC. You might need to reset the IP address on your PC to some address (for example, 10.10.10.10 255.255.255.0).
- 11 At the switch using the console session, set the IP address of the switch (for example, enter: `con mgmt ipa 10.10.10.9/24`).
- 12 Enter `save config` to save your configuration.
- 13 Start a TFTP session using a program such as TFTP64. Point the TFTP server to your PC IP address and EXOS image file saved on your PC.
- 14 At the switch, download the new software to the switch. (example: `download image 10.10.10.10 summitx-15.4.1.3-patch1-9.xos`). Press Enter.
- 15 Install the software after it loads by typing `Y` when prompted if you want to install the load.
- 16 When the download and install finishes, accept the default prompts.
- 17 Instruct the switch to reboot when prompted by entering: `reboot`.

Optional CLI Commands

Once logged into the switch you can create new VLANs by issuing the following two commands:

- `create vlan <vlan name>`
- `configure vlan <vlan name> tag XXXX` (replace XXXX with the VLAN tag number - options are 1-4096)

These two commands will create a VLAN, give it a logical name, and assign a tag number.

To configure a Default Gateway in the Extreme Networks CLI enter: `configure iproute add default <IP Address>`

Port Configuration CLI Commands

For additional port configuration CLI commands, refer to the *Extreme Networks XOS Command Reference Guide* at: www.extremenetworks.com/documentation

Specifications

Temperature and Humidity

Operating: 0° C (32°F) to 45° C (113° F)
Storage: -40° C to 70° C (-40° F to 158° F)
Operating relative humidity: 10% to 95% (non-condensing)

Switch Dimensions and Weight

X670-G2-72x Dimensions: 4.4 cm (1.73") Height x 44.cm (17.4") Width x 48.7 cm (19.20") Length.

Packaged Weight: 9.43 kg (20.79 lbs.)

X670-G2-48x-4q Dimensions: 4.4 cm (1.73") Height x 44 cm (17.4")

Width x 48.7 cm (19.20") Length.

Packaged Weight: 9.08 kg (20.12 lbs.)

Interfaces

Each X670-G2 switch has a USB, console, and management port. The following table lists the specific data interfaces for each model.

Table 1 X670-G2 Series Interface Descriptions

X670-G2-72x (Part # 17300)	72 10GBASE-X SFP+ ports, ExtremeXOS Advanced Edge License, unpopulated dual PSU power slot and five unpopulated fan module slots
X670-G2-48x-4q (Part # 17310)	48 10GBASE-X SFP+ ports and 4 40GBASE-X QSFP+ ports, ExtremeXOS Advanced Edge License, unpopulated dual PSU power slot, and 3 unpopulated fan module slots

Power Supply Options

X670-G2-72x (Part # 17300)

550 W AC Front to Back and Back to Front Power Supply

Part #: 10925 550W AC PS FB (front to back), Model #: DS550HE-3

Part #: 10927 550W AC PS BF (back to front) Model #:DS550HE-3-002

100-240V-50/60 Hz, 2.75A, max per PS

550 W DC Front to Back and Back to Front Power Supply

Part #: 10926 550W DC PS FB (front to back), Model #: DS550DC-3

Part #: 10928 550 W DC PS BF (back to front) Model #: DS550DC-3-003

-48VDC, 6.75A max per PS

X670-G2-48x-4q (Part # 17310)

550 W AC Front to Back and Back to Front Power Supply

Part #: 10925 550W AC PS FB (front to back), Model #: DS550HE-3

Part #: 10927 550W AC PS BF (back to front) Model #:DS550HE-3-002

100-240V-50/60 Hz, 2.25A max per PS

550 W DC Front to Back and Back to Front Power Supply

Part #: 10926 550W DC PS FB (front to back), Model #: DS550DC-3

Part #: 10928 550 W DC PS BF (back to front) Model #: DS550DC-3-003

-48VDC, 5.75A max per PS

Getting Help

For additional support related to X670-G2 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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www.extremenetworks.com/company/legal/trademarks/

Warranty

Warranty information for X670-G2 series switches is located online at www.extremenetworks.com/go/warranty

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

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 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.

Product Safety

This product complies with the following: UL 60950-1, FDA 21 CFR 1040.10 and 1040.11, CAN/CSA-C22.2 No. 60950-1, EN 60950-1, EN 60825-1, EN 60825-2, IEC 60950-1, 2006/95/EC.

Korea EMC Statement

이 기기는 업무용(A급) 전자파적합기기로서 판매자

또는 사용자는 이 점을 주의하시기 바라며, 가정

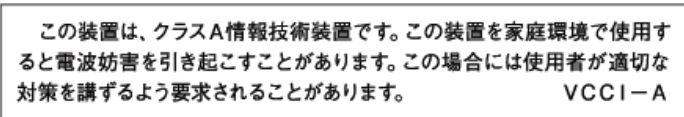
외의 지역에서 사용하는 것을 목적으로 합니다.

Electromagnetic Compatibility (EMC)

This product complies with the following: FCC 47 CFR Part 15 (Class A), ICES-003 (Class A), EN 55022 (Class A), EN 55024, EN 61000-3-2, EN 61000-3-3, AS/NZS CISPR 22 (Class A), VCCI V-3, 2004/108/EC (EMC Directive)

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.

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。

警告：此為 A 級產品，在生活環境中，該產品可能會造成

無線電干擾。在這種情況下，可能需要用戶對干擾採取切

實可行的措施。

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

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.



Caution: Risk of explosion if battery is replaced by an incorrect type. Dispose of expended battery in accordance with local disposal regulations.

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:

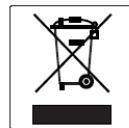
www.extremenetworks.com/support/documentation/restriction-hazardous-substances/

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):

- 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).