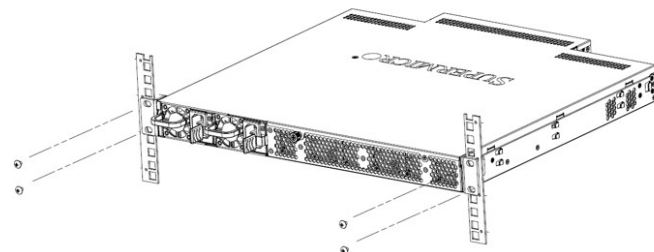## MAKE SURE YOU HAVE THE FOLLOWING

- OPA 100G 48-Port Top-of-Rack Switch
- Power Cords – 2
- Rack-mounting kit (two brackets and eight M4 screws)
- USB 2.0 Type A male to Type A male serial console cable
- Quick Installation Guide

INSTALL THE SWITCH

Following your rack plan, mark the holes in the rack where the switch will be installed. One person should lift the switch into the rack so that it is aligned with the marked holes. A second person should secure the switch in the rack, using four rack-mounting screws (not provided).

⚠ **Caution**: Installing the switch in a rack requires two people. One person should position the switch in the rack, while the other secures it using the rack screws.

CONNECT POWER

Install power modules, then power on. The switch supports up to two PSUs.

ⓘ **Note:** Install power modules before connecting power cords. Disconnect power cords before removing power modules
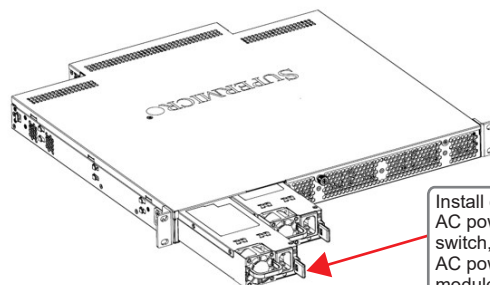
ⓘ **Note**: For electrical safety purposes, please pay attention to the following warning notices, printed on the switch unit:

⚠ **Warning**: Disconnect the power cord from all power sources to completely remove power from the device.
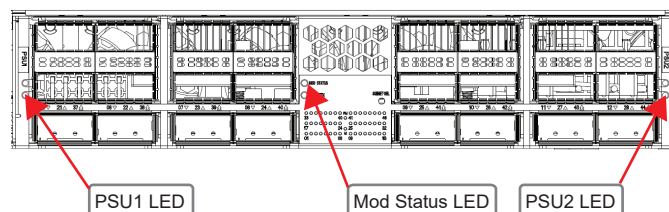
⚠ **Warning**: If the installation requires a different power cord than the one supplied with the device, make sure you use a power cord displaying the mark of the safety agency that defines the regulations for power cords in your country. The mark is your assurance that the power cord can be used safely with the device

Install one or two universal AC power modules in the switch, connect an external AC power source to the modules.
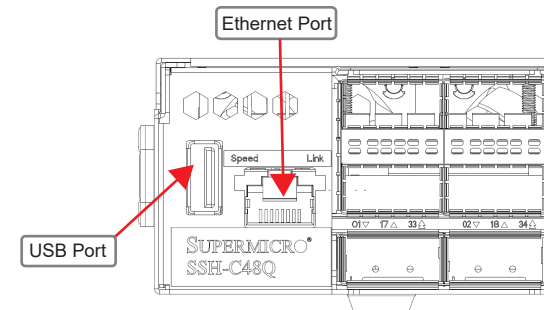
VERIFY SWITCH OPERATION

Verify basic switch operation by checking the system LEDs. When operating normally, the PSU1/PSU2 and Mod Status should all be on green.

PSU1 LED   Mod Status LED   PSU2 LED

MAKE INITAL CONFIGURATION CHANGES

At this point you may need to make a few basic switch configuration changes by accessing CLI before connecting to the network. The CLI can be accessed two ways (with optional management card):

1. Using the USB serial port.
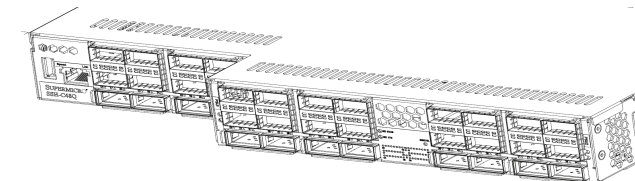
2. Through Ethernet port, using Telnet or SSH.

Ethernet Port

USB Port

For information on initial switch configuration, refer to the *Switch Installation Guide* and the *Switch User's Guide* at https://www.supermicro.com/manuals/network/SSH-C48Q_Management_GUI_User_Manual.pdf.

CONNECT NETWORK CABLE

Connect DAC or AOC cables to the QSFP28 ports. Or first install QSFP28 transceivers and then connect fiber optic cabling to the transceiver ports.

As connections are made, check the port indicators to be sure the links are valid.

PHYSICAL CHARACTERISTICS

Ports
48-Port 100-Gbps QSFP28

Network Interface
Ports 01~ 48: 100-Gbps QSFP28
Direct Attach Cables (copper) and Active Optical Cables are supported

Weight: 7.26 kg (16 lbs), with two installed power supply modules

LEDs
System: PSU1, PSU2, Mod Status, Mod Attn (Attention), FM (Fabric Management), M (Mgmt Present)

Ports 01~48 Indicators

Size: (W x D x H): 438 x 421.0 x 43.6 mm (17.2 x 16.6 x 1.72 inches)

Temperature:
Operating: 0°C to 40°C (32°F to 104°F)
Storage -40°C to 65°C (-40°F to 149°F)

Humidity: Operating: 5% to 85% (non-condensing)

AC Input: 100-127VAC ; 50-60Hz ; 9.5A
200-240VAC; 50-60Hz; 4.5A

DC Output: +12Vdc ;62.5A / +12Vsb; 2.1A ; Maximum 750W (per module)

Power Supply (auto sensing, hot swappable):
100-127VAC ; 50-60Hz ; 9.5A
200-240 VAC; 50-60Hz; 4.5A

Power Consumption: 210 W (Copper); 380 (All max 3W Optical)

COMPLIANCES

Regulatory Compliance

Electromagnetic Emissions: FCC Class A, EN 55022 Class A, EN 61000-3-2/3-3, CISPR 22 Class A

Electromagnetic Immunity: EN 55032/CISPR 32, EN 55024/CISPR 24, (EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11)

EMC: FCC/CE/BSMI/VCCI/RCM (CLASS A)

Safety: CSA/EN/IEC/UL 60950-1 Compliant, UL or CSA Listed (USA and Canada), CE Marking (Europe)

SAFETY COMPLIANCE

Warning: Only trained and qualified personnel should be allowed to install, replace, or service this equipment.

Warning: This unit is intended for installation in restricted access areas. A restricted access area can be accessed only through the use of a special tool, lock and key, or other means of security. (This warning does not apply to workstations).

Warning: When installing the product, use the provided or designated connection cables, power cables and AC adaptors. Using any other cables and adaptors could cause a malfunction or a fire. Electrical Appliance and Material Safety Law prohibits the use of UL or CSA -certified cables (that have UL/CSA shown on the code) for any other electrical devices than products designated by Supermicro only.

Warning: The system must be disconnected from all sources of power and the power cord removed from the power supply module(s) before accessing the chassis interior to install or remove system components.

Warning: Hazardous voltage or energy is present on the backplane when the system is operating. Use caution when servicing.

Warning: Ultimate disposal of this product should be handled according to all national laws and regulations.

CAUTIONARY MESSAGES

Caution: Wear an anti-static wrist strap or take other suitable measures to prevent electrostatic discharge when handling this equipment.

Caution: Do not plug a phone jack connector in the RJ-45 port. This may damage this device.

Caution: Use only twisted-pair cables with RJ-45 connectors that conform to FCC standards.