Quick Start Guide

24/48-Port GE Top-of-Rack Switch

AS4610-30T / AS4610-30P / AS4610-54T / AS4610-54P

1. Unpack the Switch and Check Contents


AS4610-30T


AS4610-30P


AS4610-54T


AS4610-54P


Rack Mounting Kit—two brackets and eight screws


Four adhesive foot pads


Power Cord—either Japan, US, Continental Europe or UK


Console Cable—RJ-45 to DB-9


Micro-USB to RJ-45 Jack Cable


Documentation—*Quick Start Guide* (this document) and *Safety and Regulatory Information*

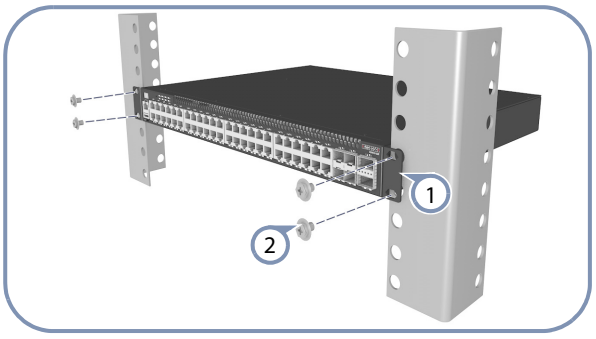
Note: For information on switch software, refer to **www.edge-core.com**.

Switches with part numbers 4610-30/54-D*-******** have switch software pre-loaded on the switch. Software user documentation can be found at **www.edge-core.com**.

Switches with part numbers 4610-30/54-O-******** have the Open Network Installer Environment software installer pre-loaded on the switch, but no switch software image. Information about compatible switch software can be found at **www.edge-core.com**.

Warning: For indoor use only. The switch, AC power, and all connected cables are not designed for outdoor use.

2. Mount the Switch

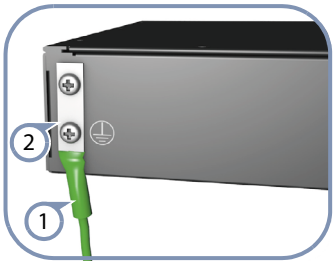


1. Attach the brackets to the switch.
2. Use the screws and cage nuts supplied with the rack to secure the switch in the rack.

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.

Note: The switch can also be installed on a desktop or shelf using the included adhesive rubber foot pads.

3. Ground the Switch

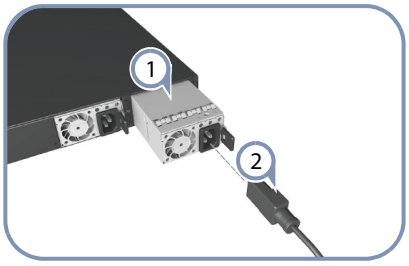


1. Ensure the rack on which the switch is to be mounted is properly grounded and in compliance with ETSI ETS 300 253. Verify that there is a good electrical connection to the grounding point on the rack (no paint or isolating surface treatment).
2. For a PoE switch, attach a lug (not provided with PSU) to a #12 AWG minimum grounding wire (not provided with PSU), and connect it to the grounding point on the switch rear panel. Then connect the other end of the wire to rack ground.

   For a Non-PoE switch, attach a lug (not provided with PSU) to a #18 AWG minimum grounding wire (not provided with PSU), and connect it to the grounding point on the switch rear panel. Then connect the other end of the wire to rack ground.

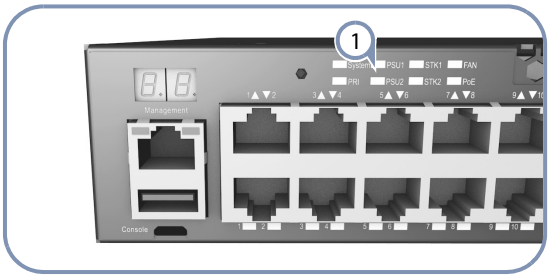
Caution: The earth connection must not be removed unless all supply connections have been disconnected.

4. Connect Power



1. Install one or two universal AC power modules in the switch.
2. Connect an external AC power source to the modules.

5. Verify Switch Operation



1. Verify basic switch operation by checking the system LEDs.
   For AS4610-30P/AS4610-54P, when operating normally, the PSU1/PSU2, System and FAN LEDs should all be on green.
   For AS4610-30T/AS4610-54T, when operating normally, the PSU1/PSU2 and System LEDs should all be on green.

6. Perform Initial Configuration

a. Edge-Core DCSS Software (for AS4610-54P only)

1. To make basic switch configuration changes, connect a PC to the switch console port using the included Micro-USB to RJ-45 jack cable and console cable.
2. Configure the PC's serial port: 115200 bps, 8 characters, no parity, one stop bit, 8 data bits, and no flow control.
3. Log in to the command-line interface (CLI) using default settings: User "admin" with no password.

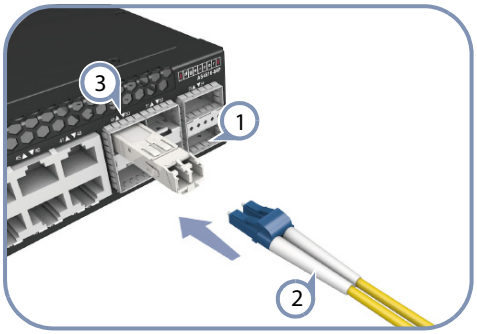
Note: For information on initial switch configuration, refer to the *Administrator's Guide*.

b. ONIE Installer Software

1. If the network operating system (NOS) installer is located on a network server, first connect the RJ-45 Management (Mgmt) port to the network using Category 5, 5e or better twisted-pair cable. (Not required if the NOS installer is located on attached storage.)
2. Boot the switch. Wait for the ONIE software to locate and execute the NOS installer, and then wait for the installer to load the NOS software image.
   Subsequent switch boots will bypass ONIE and directly run the NOS software.

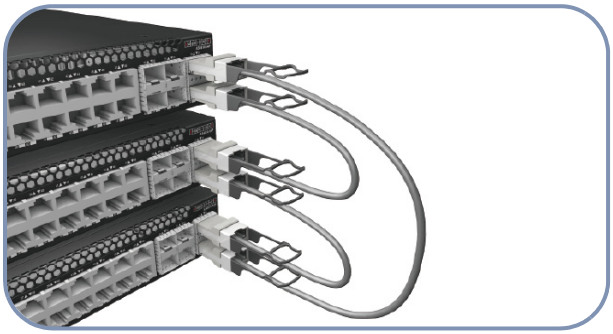
Note: Refer to NOS installer and NOS documentation for details on software location options and set up for ONIE.

7. Connect Network Cables



1. For RJ-45 ports, connect 100-ohm Category 5, 5e or better twisted-pair cable.
   For AS4610-30P, ports 1-16 can suport PoE connections up to 30 W and ports 17-24 can support UPoE connections up to 60 W.
   For AS4610-54P, ports 1-40 can support PoE connections up to 30 W and ports 41-48 can support UPoE connections up to 60 W.
2. Connect DAC cables to the SFP+/QSFP+ slots. Or first install SFP+/QSFP+ transceivers and then connect fiber optic cabling to the transceiver ports.
   The following transceivers are supported:
   - 40GBASE-CR4
   - 40GBASE-SR4
   - 10GBASE-CR
   - 10GBASE-SR (ET5402-SR)
   - 1000BASE-SX (ET4201-SX)
   - 1000BASE-LX (ET4201-LX)
3. As connections are made, check the port status LEDs to be sure the links are valid:
   - On/Blinking Green — Port has a data link. Blinking indicates network activity.
   - On/Blinking Amber — Port has a data and PoE link. Blinking indicates network activity.

8. Hardware Stacking Connection (Optional)



1. Plug one end of a 40GBASE-CR4 DAC cable in the bottom QSFP+ port of the top unit.
2. Plug the other end of the DAC cable into the top QSFP+ port of the next unit.
3. Repeat for each unit in the stack.
4. (Optional) Plug one end of a 40GBASE-CR4 DAC cable into the bottom QSFP+ port on the bottom unit and the other end into the top QSFP+ port on the top unit.
5. Reboot each switch in the stack to start stack operation.

Note: Stacking support is dependent on the switch software. For stacking support information, refer to the NOS software documentation.

Hardware Specifications

Switch Chassis	
Size (W x D x H)	440 x 350 x 45 mm (17.32 x 13.78 x 1.77 inches)
Weight	AS4610-30T: 5.16 kg (11.37 lb) AS4610-30P: 6.02 kg (13.27 lb) AS4610-54T: 5.38 kg (11.86 lb) AS4610-54P: 6.36 kg (14.02 lb)
Temperature	Operating: 0° C to 45° C (32° F to 113° F) Storage: -40° C to 70° C (-40° F to 158° F)
Humidity	Operating: 5% to 95% (non-condensing)
150 W AC PSU (AS4610-30T/ AS4610-54T)	
AC Input	100-240 VAC, 50-60 Hz, 3-1.5 A
Power Rating	150 W maximum
Size (W x D x H)	54.5 x 220 x 40.25 mm (2.15 x 8.66 x 1.58 inches)
600 W AC PSU (AS4610-30P)	
AC Input	100-240 VAC, 50-60 Hz, 8.5-4.25 A
Power Rating	600 W maximum
Size (W x D x H)	54.5 x 220 x 40.25 mm (2.15 x 8.66 x 1.58 inches)
920 W AC PSU (AS4610-54P)	
AC Input	100-240 VAC, 50-60 Hz, 13-6.5 A
Power Rating	920 W maximum
Size (W x D x H)	54.5 x 220 x 40.25 mm (2.15 x 8.66 x 1.58 inches)
Regulatory Compliances	
Emissions	EN 55022:2010, Class A EN 61000-3-2:2009, Class A EN 61000-3-3:2008 FCC Class A VCCI Class A CE Mark CCC GB9254-2008 (AS4610-54P only) BSMI (CNS13438)
Immunity	EN 55024:2010 IEC 61000-4-2/3/4/5/6/8/11
Safety	UL (CSA 22.2 No 60950-1 & UL60950-1) CB (IEC/EN60950-1) CCC GB4943-2011 (AS4610-54P only) BSMI (CNS14336)