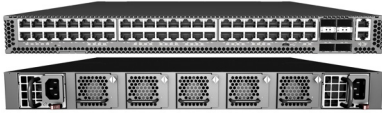


# Quick Start Guide






## 54-Port 10G Top-of-Rack Switch

AS5812-54T

### 1. Unpack the Switch and Check Contents



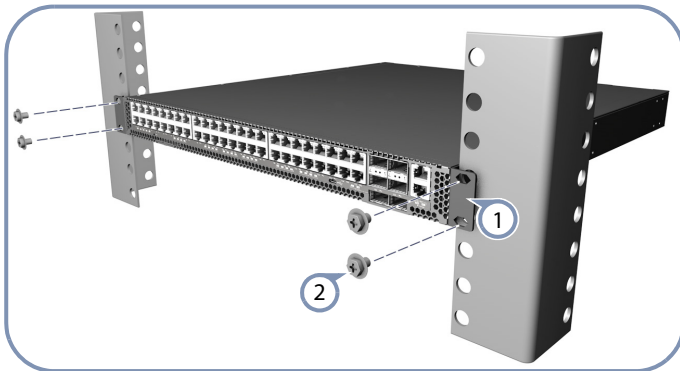
10G Top-of-Rack Switch AS5812-54T

-  Rack Mounting Kit—contains two brackets and eight screws
-  Power Cord—either Japan, US, Continental Europe or UK (included with AC PSUs only)
-  Grounding Wire (included with DC PSUs only)
-  Console Cable—RJ-45 to DB-9
-  Documentation—*Quick Start Guide* (this document) and *Safety and Regulatory Information*

**Note:** The switch has the Open Network Install Environment (ONIE) 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](http://www.edge-core.com).

**Caution:** The switch includes two plug-in AC or DC PSUs and five fan tray modules that are installed into its chassis. All installed modules must have a matching airflow direction. That is, all modules must have a front-to-back (F2B) airflow direction, or all modules must have a back-to-front (B2F) airflow direction. The airflow direction of PSU and fan tray modules is indicated by labels on the modules.

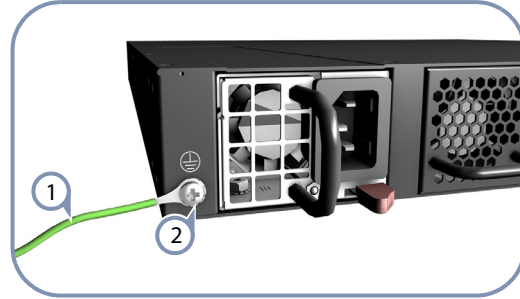
### 2. Mount the Switch



- 1 Attach the brackets to the switch.
- 2 Use the screws supplied with the rack to secure the switch in the rack. (The switch can also be installed a 21-inch Open Rack using an Open Rack Switch Adapter.)

**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.  
装置の吸排気に必要な領域をマニュアル上に規定している。

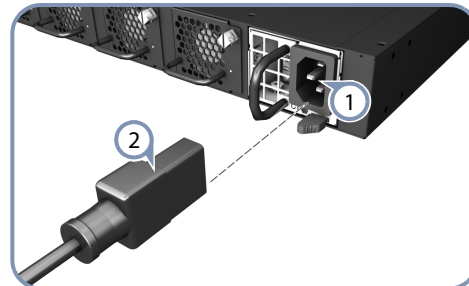
### 3. Ground the Switch



- 1 Ensure the rack 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 Attach a lug (not provided with AC PSUs) to an 18 AWG minimum grounding wire (not provided with AC PSUs), and connect it to the grounding point on the switch rear panel. Then connect the other end of the wire to rack ground.

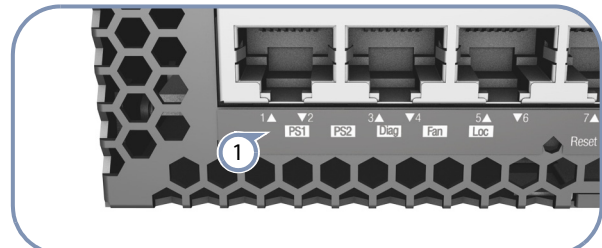
**Caution:** The earth connection must not be removed unless all supply connections have been disconnected.

### 4. Connect Power



- 1 Install one or two AC or DC power modules in the switch. The switch supports up to two PSUs that must have the same matching airflow direction as the installed fan tray.
- 2 Connect an external AC or DC power source to the modules.

### 5. Verify Switch Operation



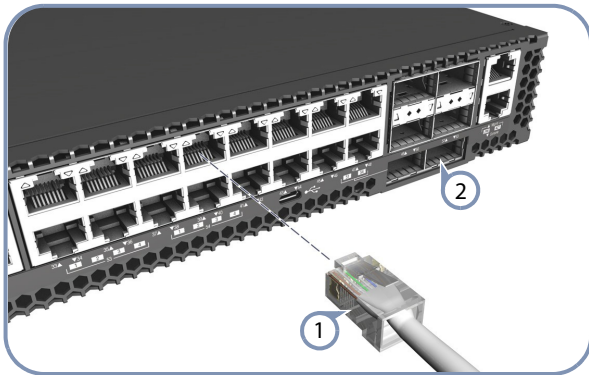
- 1 Verify basic switch operation by checking the system LEDs. When operating normally, the PSU1/PSU2, Diag, and Fan LEDs should all be on green.

## 6. Perform Initial System Boot

- 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 100-ohm 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:** For switches with ONIE software pre-loaded, refer to the network operating system (NOS) installer and NOS documentation for details on software options and set up for ONIE.

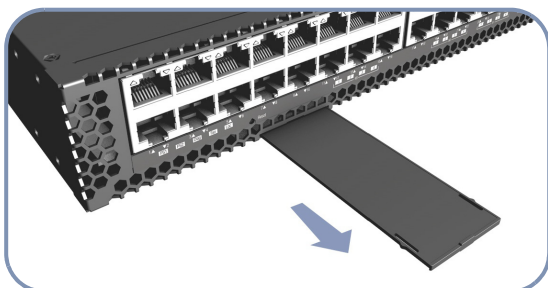
## 7. Connect Network Cables



- 1 For RJ-45 ports, use 100-ohm Category 6, 6a, or 7 twisted-pair cable for 10GBASE-T connections, or Category 5e or better cable for 100/1000BASE-T connections.
- 2 Connect DAC cables to the QSFP+ slots. Or, first install QSFP+ transceivers and then connect fiber optic cabling to the transceiver ports. The following transceivers are supported:
  - ◆ 40GBASE-CR4
  - ◆ 40GBASE-SR4

**Note:** As connections are made, check the port status LEDs to be sure the links are valid.

## 8. View the Product Label



- 1 The switch product label is located below RJ-45 ports 7–12 on left side of the front panel. Pull the label out to view the product information.

## Hardware Specifications

### Switch Chassis

Size (WxDxH)	442.5 x 473 x 43.95 mm (17.42 x 18.62 x 1.73 inches)
Weight	9.5 kg (20.94 lb), with two installed PSUs
Temperature	Operating: 0° C to 40° C (32° F to 104° F) Storage: -40° C to 70° C (-40° F to 158° F)
Humidity	Operating: 5% to 95% (non-condensing)
Power Consumption	384 Watts maximum

### AC PSU

Power Rating	100–240 VAC, 50-60 Hz, 400 Watts, hot pluggable
AC Input	100–240 VAC, 50-60 Hz, 6–3 A
DC Output	5 VDC @ 3 A 12 VDC @ 33 A

### DC PSU

Power Rating	48 VDC, 400 Watts, hot pluggable
DC Input	36–75 VDC, 16 A maximum
DC Output	5 VDC @ 0.5 A 12 VDC @ 33 A

### 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
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)