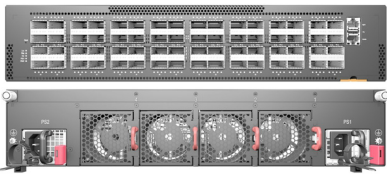# Quick Start Guide

64-Port 100G Top-of-Rack Switch
AS7816-64X

Package Contents

1. 100G Top-of-Rack Switch AS7816-64X
2. Rack Mounting Kit—2 front-post brackets, 2 rear-post brackets, 20 screws, and 2 ear-locking screws
3. Power Cord
4. Console Cable—RJ-45 to DB-9
5. Documentation—*Quick Start Guide* (this document) and *Safety and Regulatory Information*

⚠ **Caution:** The switch includes plug-in power supply (PSU) and fan tray modules that are installed into its chassis. All installed modules must have a matching airflow direction. That is, if the installed power modules have a front-to-back (F2B) airflow direction, all the installed fan tray modules must also have a F2B airflow direction.
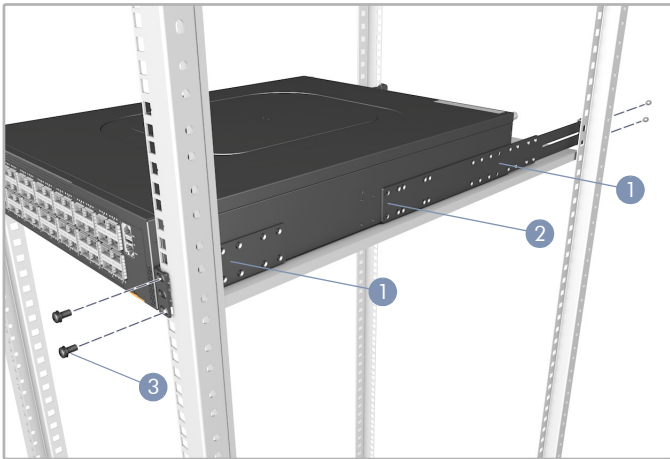
ℹ **Note:** The switch has the Open Network Install Environment (ONIE) software installer preloaded on the switch, but no switch software image. Information about compatible switch software can be found at **www.edge-core.com**.

ℹ **Note:** The switch drawings in this document are for illustration only and may not match your particular switch model.

1 Attach the Brackets

1. Attach each of the front- and rear-post brackets to the switch using four of the included bracket screws.
2. Use an additional two screws to secure each of the rear-post brackets at the mid-point on the sides of the switch.
3. Use the screws and cage nuts supplied with the rack to secure the switch in the rack.
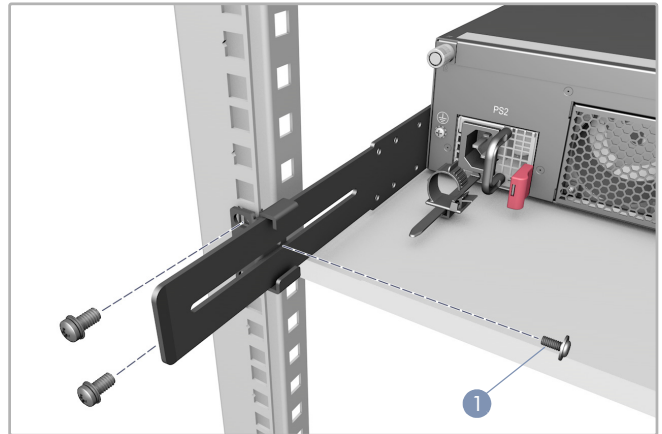
⚠ **Caution:** Installing the switch in a rack requires two people. One person should position the switch in the rack, while the other person secures it using the rack screws.
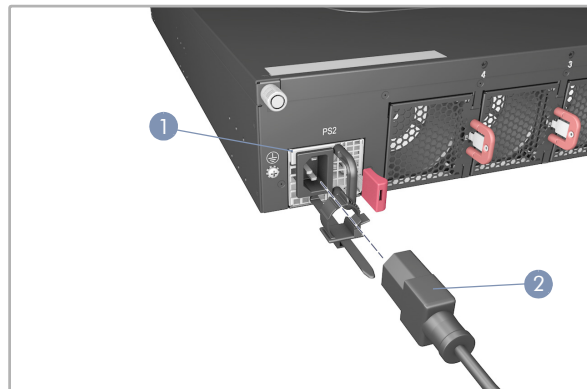
⚠ 装置の吸排気に必要な領域をマニュアル上に規定している。

2 Adjust Rear-Post Bracket Ears

1. Lock the position of the rear-post bracket ears using the included position-locking screws.

   You can also adjust the rear-post bracket ears to fit different rack depths from 56 cm to 75 cm.

3 Connect Power

1. Install one or two AC PSUs 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 power source to the PSUs.

4 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.

5 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.

6 Connect Network Cables
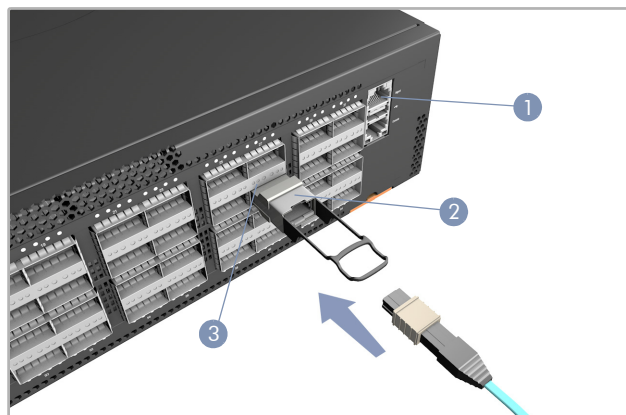
1. For the RJ-45 Management port, connect 100-ohm Category 5, 5e or better twisted-pair cable.

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

   The following transceivers are supported:

   - 100GBASE-CR4, AOC, SR4, LR4, and PSM4
   - 40GBASE-CR4, SR4, and LR4

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

   Each QSFP28 port has four LEDs that indicate valid links in the following modes:

   - 1 LED Blue — 100 Gbps mode
   - 1 LED Orange — 40 Gbps mode
   - 1-4 LEDs White — 25 Gbps breakout mode (four lanes)
   - 1-4 LEDs Green — 10 Gbps breakout mode (four lanes)

Hardware Specifications

Switch Chassis

Size (WxDxH)	438.4 x 580 x 87.7 mm (17.26 x 22.83 x 3.45 in.)
Weight	14.11 kg (31.1 lb), with two installed PSUs
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)
Power Consumption	760 Watts maximum

AC PSU

Power Rating	100–240 VAC, 50-60 Hz, 12–6 A, 850 Watts

Regulatory Compliances

Emissions	EN 55032:2015+AC:2016, Class A EN 61000-3-2:2014, Class A EN 61000-3-3:2013 47 CFR FCC Part 15:2015, Subpart B, Class A CE Mark
Immunity	EN 55024:2010+A1:2015 IEC 61000-4-2/3/4/5/6/8/11
Safety	UL (CSA 22.2 No 60950-1 & UL60950-1) CB (IEC/EN60950-1)