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Edge-core AS9716-32D 400G Data Center Spine Switch User Guide



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Edge-core AS9716-32D 400G Data Center Spine Switch

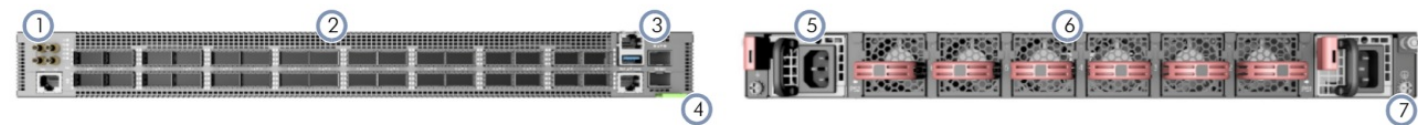


Package Contents



- 32-Port 400G Data Center Spine Switch AS9716-32D
- Rack mounting kit-2 front-post brackets, 2 rear-post brackets, 20 screws, and 2 ear-locking screws
- Power cord (included with AC PSUs only)
- Console cable-RJ-45 to DE-9
- Documentation-Quick Start Guide (this document) and Safety and Regulatory Information

Overview



- Timing ports: 1 0 MHz, 1 PPS, ToD
- 32 x 400G QSFP-DD ports
- Management ports: 1 x 1 000BASE-T RJ-45, 2 x 1 0G SFP+, RJ-45 console, USB
- Product label
- 2 x AC PSUs
- 6 x fan trays
- 2 x grounding screws

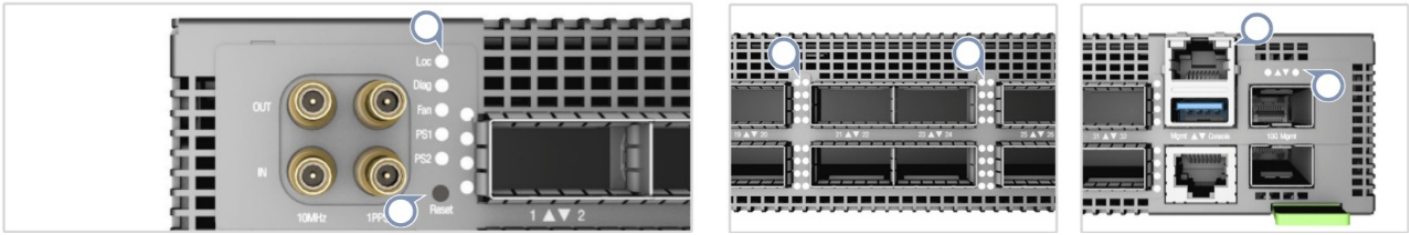
System LEDs/Buttons

- PS1/PS2:** Green (OK), Amber (fault)
- Diag:** Green (OK), Amber (no OS or fault)
- Fan:** Green (OK), Amber (fault)
- Loc:** Flashing Amber (switch locator)
- Reset Button**

Port LEDs

QSFP-DD LEDs

- 400G: 1 LED Blue
200G Breakout: 1 LED White, 1-2 LEDs Green
1 00G Breakout: 1-4 LEDs Green S0G Breakout: 1 LED Cyan



SFP+ 1 OG Mgmt LEDs

- Green (10G)
- Amber (1 G)

RJ-45 Mgmt LED

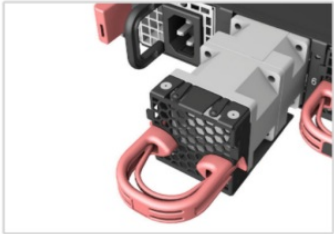
- Green (link/activity)

FRU Replacement



PSU Replacement

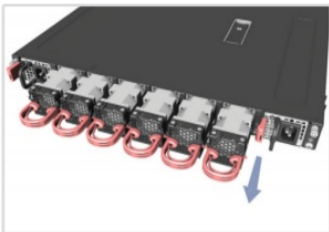
1. Remove the power cord.
2. Press the release latch and remove the PSU.
3. Install replacement PSU with matching airflow direction.



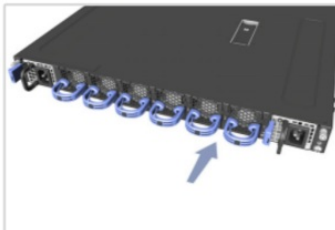
Fan Tray Replacement

1. Pull the handle release latch.
2. Remove fan tray from the chassis.
3. Install replacement fan with matching airflow direction.

Airflow Reversal



1. **F2B Airflow**
 - Remove front-to-back (F2B) airflow fan trays (red handles) and PSUs (red release latches).



2. **B2F Airflow**
 - Install back-to-front (B2F) airflow fan trays (blue handles) and PSUs (blue release latches).

Installation

Warning: For a safe and reliable installation, use only the accessories and screws provided with the AS9716- 32D. Use of other accessories and screws could result in damage to the unit. Any damages incurred by using unapproved accessories are not covered by the warranty.

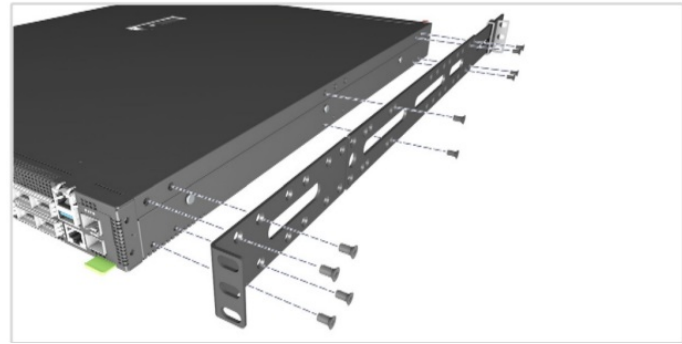
Caution: The switch includes plug-in power supply (PSU) and fan tray modules that are installed into its chassis. Make sure all installed modules have a matching airflow direction (front-to-back or back-to-front).

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.

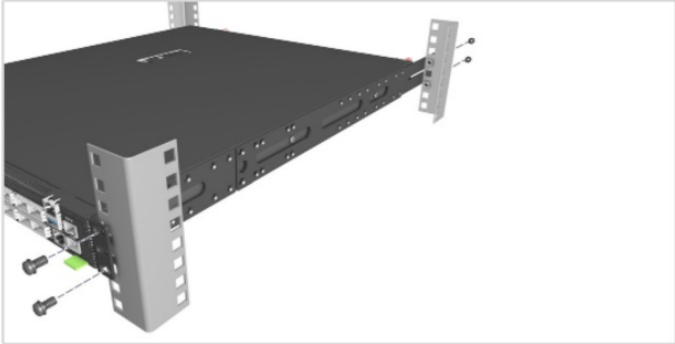
- The switch drawings in this document are for illustration only and may not match your particular switch model.

Mount the Switch

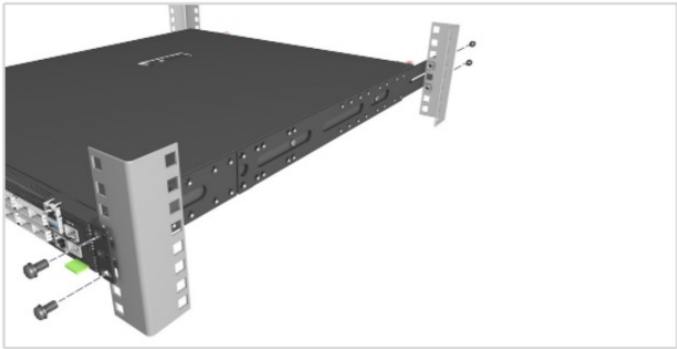
Caution: This device must be installed in a telecommunications room or a server room.
Attention: Cet appareil doit etre installe dans une salle de telecommunication ou une salle de serveur.



1. **Attach the Brackets**
Use the included screws to attach the front- and rear-post brackets

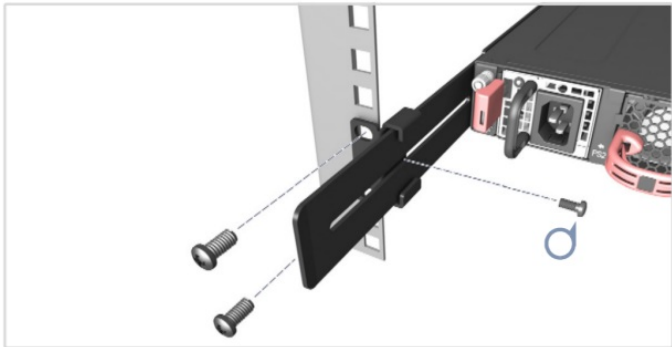


2. **Mount the Switch**

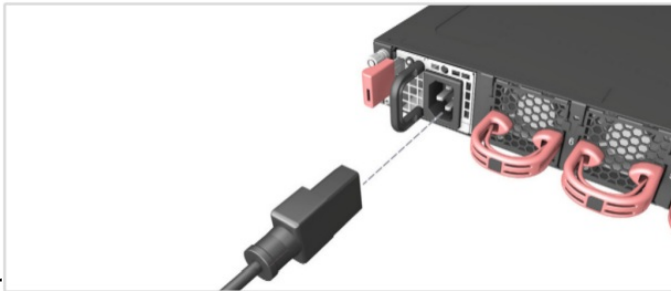


Mount the switch in the rack and secure it with rack screws.

3. **Lock the Rear-Post Brackets**



Use the included screws to lock the position of the rear-post brackets.



Connect Power

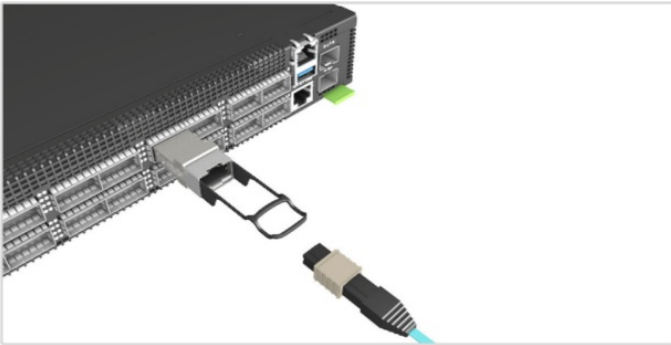
AC Power: Install one or two AC PSUs and connect them to an AC power source.

Caution: Use a UL/IEC/EN 60950-1 certified power supply to connect to a DC converter.

Attention: Utilisez une alimentation certifiée UL/IEC/EN 60950-1 pour le connecter à un convertisseur CC. Caution: All DC power connections should be performed by a qualified professional.

Attention: Toutes les connexions d'alimentation CC doivent être effectuées par un professionnel qualifié.

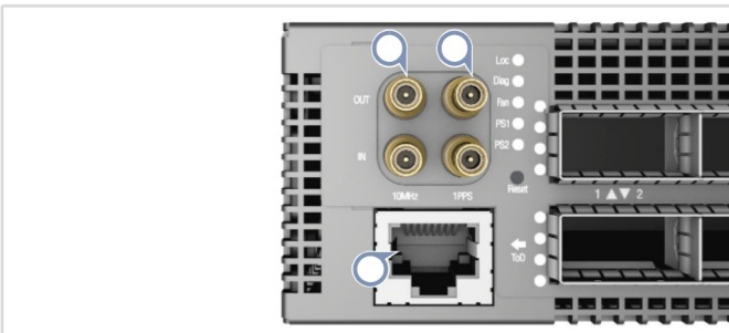
Make Network Connections



QSFP-DD Ports

Install transceivers and then connect fiber optic cabling to the transceiver ports. Alternatively, connect DAC or AOC cables directly to the QSFP-DD slots.

Connect Timing Ports

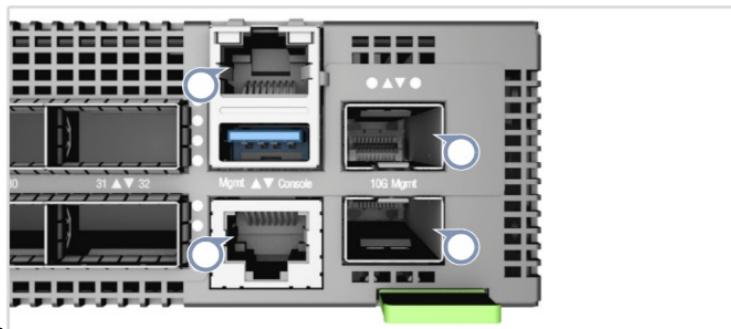


1 PPS and 10 MHz Ports

- Use coax cables to connect the 1-pulse-per-second (1 PPS) and 10 MHz IN/OUT ports to other synchronized devices.

ToD Port

- Use a shielded cable to connect the Time-of-Day (ToD) port to other devices that use ToD synchronization signals.



Make Management Connections

10/100/1000M RJ-45 Management Port

- Connect Cat. 5e or better twisted-pair cable.

1 0G SFP+ Management Ports

- Install transceivers and then connect fiber optic cabling to the transceiver ports.

RJ-45 Console Port

- Connect the included console cable and then configure the serial connection: 115200 bps, 8 characters, no parity, one stop bit, 8 data bits, and no flow control.

Hardware Specifications

Switch Chassis

- **Size (WxDxH):** 438.4 x 536 x 43.1 mm (17.26 x 21.1 x 1.7 in.)
- **Weight:** 11.06 kg (24.38 lb), with 2 PSUs and 6 fans installed
- **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:** 1300 Watts maximum Consumption

AC PSU

Input Power: 100-120 VAC, 50-60 Hz, 12 A max. 200-240 VAC, 50-60 Hz, 7.5 A max. 190-310 VDC, 8-5 A

- Rating

Regulatory Compliances

- Emissions

Immunity:

- EN 55032:201 S+AC:2016, Class A
- EN 61000-3-2:2014, Class A
- EN 61000-3-3:2013
- FCC Class A
- VCCI Class A
- CCC GB 9254-2008, Class A
- EN 55035:2017
- EN 55024:201 0+A 1:2015
- IEC 61000-4-2/3/4/5/6/8/1 I

Safety: UL (CSA 22.2 No 62368-1 & UL62368-1) CB (IEC/EN60950-1 & IEC/EN 62368-1) CCC GB4943.1-2011

Documents / Resources



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