Manuals+ — User Manuals Simplified.

Edge-core AIS800-64O 64-Port 800G Ethernet Switch

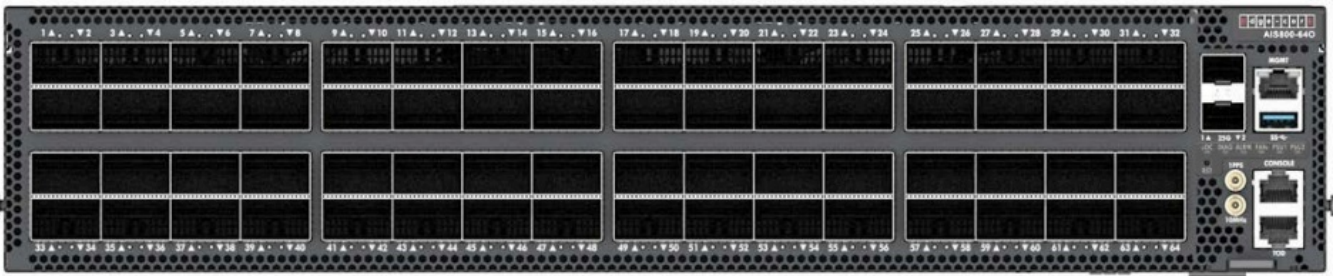# Edge-core AIS800-64O 64-Port 800G Ethernet Switch User Guide

Contents

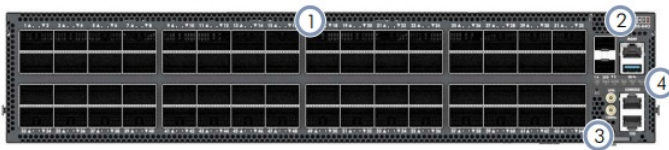**Edge-core AIS800-64O 64-Port 800G Ethernet Switch**

Package Contents

1. 64-Port 800G Ethernet Switch AIS800-64O
2. Slide-rail mounting kit—2 rack slide-rails and install guide
3. Power cord (type IEC C20/IEC C19)
4. Documentation—Quick Start Guide (this document) and Safety and Regulatory Information

Overview

1. 64 x 800G OSFP800 ports
2. Management Ports: 1 x 1000BASE-T RJ-45, 2 x 25G SFP28, RJ-45 console, USB
3. Timing Ports: 1PPS, 10 MHz, TOD
4. System LEDs
5. 2 x grounding screws
6. 2 x AC PSUs
7. 4 x fan trays

System LEDs/Buttons

1. OSFP800 LEDs: Purple (800G), Blue (400G), Cyan (200G), Green (100G), Red (50G)
2. RJ-45 MGMT LEDs: Left: Green (link/act), Right: Green (speed)
3. SFP28 LEDs: Green (link/activity)
4. System LEDs:
   - **LOC:** Flashing Green (switch locator)
   - **DIAG:** Green (OK), Red (fault)
   - **ALRM:** Red (fault)
   - **FAN:** Green (OK), Red (fault)
   - **PSU1/PSU2:** Green (OK), Red (fault)
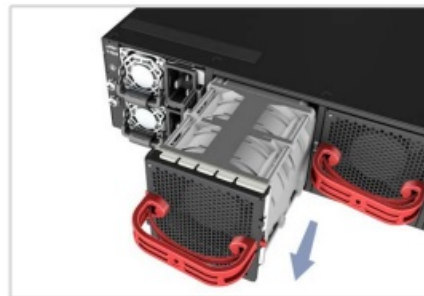5. **RST:** Reset button
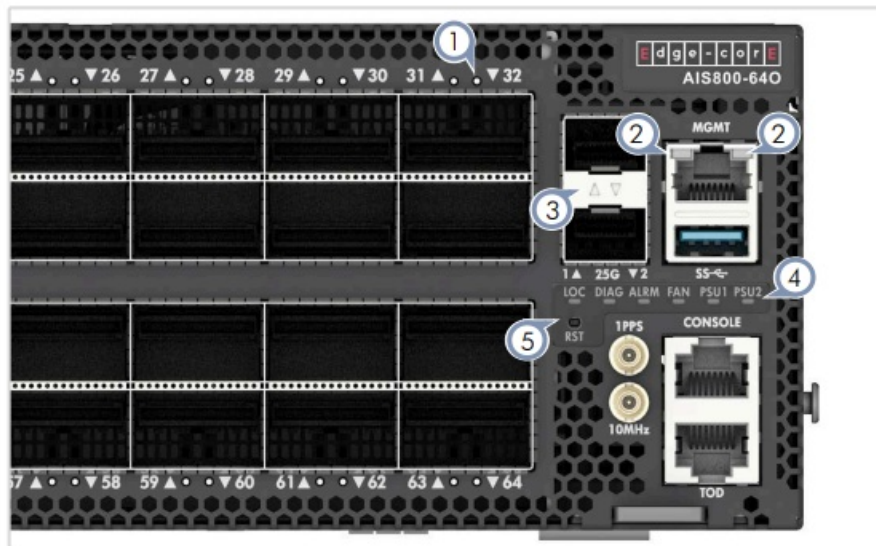
FRU Replacement

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 the fan tray from the chassis.
3. Install a replacement fan with a matching airflow direction.

Installation

Caution: During switch operation, fan replacement should be completed within two minutes to prevent the switch shutting down due to its built-in over-temperature protection.

Warning: For a safe and reliable installation, use only the accessories and screws provided with the device. 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.

Note: The device has the Open Network Install Environment (ONIE) software installer preloaded, but no device software image.

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

1. **Mount the Device**

Caution: This device must be installed in a telecommunications room or a server room where only qualified personnel have access.

Using the Slide-Rail Kit

Follow instructions in the install guide provided in the slide-rail kit to mount the device in a rack.

2. **Ground the Device**

Verify Rack Ground

Ensure the rack on which the device 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).

Attach Grounding Wire

Attach a grounding wire (#6 AWG/13.3 mm2, green with yellow stripe) (not included) to the grounding point on the device rear panel

(maximum torque 10 kgf-cm (8.7 lb-in)). Then connect the other end of the wire to rack ground.

3. **Connect Power**

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

Note: When using only one AC PSU to power a fully loaded system, be sure to use a high-voltage source (200–240 VAC).

4. **Make Network Connections**

800G OSFP800 Ports

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

Alternatively, connect DAC or AOC cables directly to the slots.

5. **Connect Timing Ports**

- **1PPS Port**

  Use a coax cable to connect the 1-pulse-per-second (1PPS) port to another synchronized device.
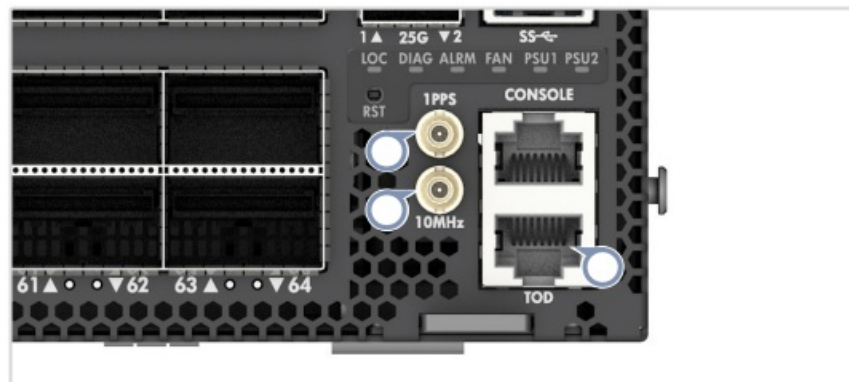
- **10 MHz Port**

  Use a coax cable to connect the 10 MHz port to another synchronized device.

- **TOD Port**

  Use a shielded cable to connect the Time-of-Day (TOD) RJ-45 port to other devices that use these synchronization signals.

6. **Make Management Connections**

25G SFP28 In-Band Management Ports

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

10/100/1000M RJ-45 Out-of-Band Management Port

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

RJ-45 Console Port

Use an RJ-45-to-DB-9 null-modem console cable (not included) to connect to a PC running terminal emulator software. Use a USB-to-male DB-9 adapter cable (not included) for connections to PCs that do not have a DB-9 serial port.

Configure the serial connection: 115200 bps, 8 characters, no parity, one stop bit, 8 data bits, and no flow control.

Console cable pinouts and wiring:

Device's RJ-45 Console Null Modem PC's 9-Pin DTE Port

6 RXD (receive data)	<---------------	3 TXD (transmit data)
3 TXD (transmit data)	-------------->	2 RXD (receive data)
4,5 SGND (signal ground)	----------------	5 SGND (signal ground)

Hardware Specifications

Switch Chassis

Size (WxDxH)	440 x 649.2 x 87 mm (17.32 x 25.56 x 3.43 in.)
Weight	20.2 kg (44.53 lb), with 2 PSUs and 4 fans installed
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)

AC PSU

AC Input	200-240 VAC, 50/60 Hz, 16 A max.

System Input Rating

AC Input	200-240 VAC, 50/60Hz, 16 A max. per PS

Regulatory Compliances

Emissions	EN 55032 Class A EN 61000-3-2 EN 61000-3-3 VCCI-CISPR 32 Class A AS/NZS CISPR 32 Class A ICES-003 Issue 7 Class A FCC Class A EN 300 386 Class A
Immunity	EN 55035 IEC 61000-4-2/3/4/5/6/8/11 EN 300 386
Safety	UL (CSA 22.2 No 62368-1 & UL62368-1) CB (IEC/EN 62368-1)

www.edge-core.com

Documents / Resources
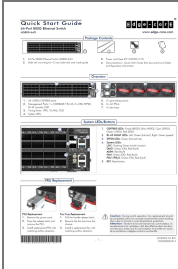
Edge-core AIS800-64O 64-Port 800G Ethernet Switch [pdf] User Guide
AIS800-64O, AIS800-64O 64-Port 800G Ethernet Switch, 64-Port 800G Ethernet Switch, 800G
Ethernet Switch, Ethernet Switch, Switch

References

- **User Manual**