Manuals+ — User Manuals Simplified.

**Edge-corE ECS5550-54X
Ethernet Switch**

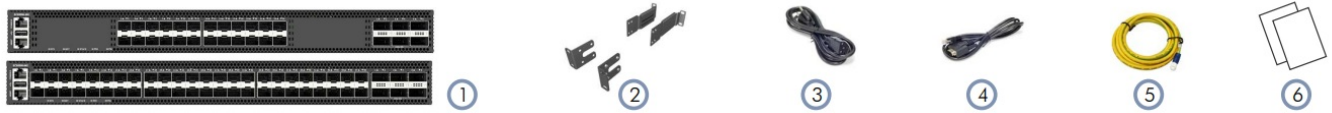# Edge-corE ECS5550-54X Ethernet Switch User Guide

Contents

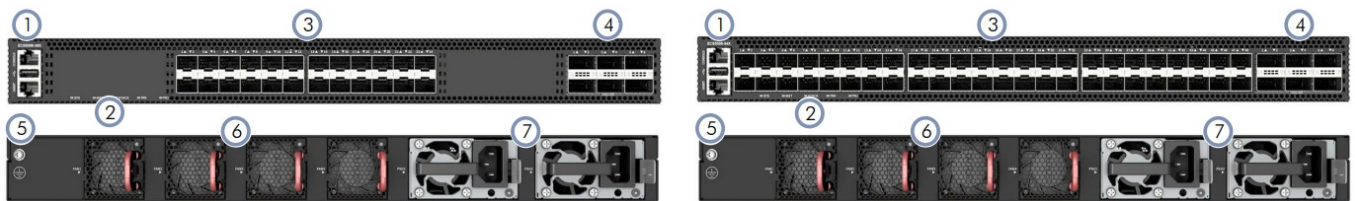## Edge-corE ECS5550-54X Ethernet Switch
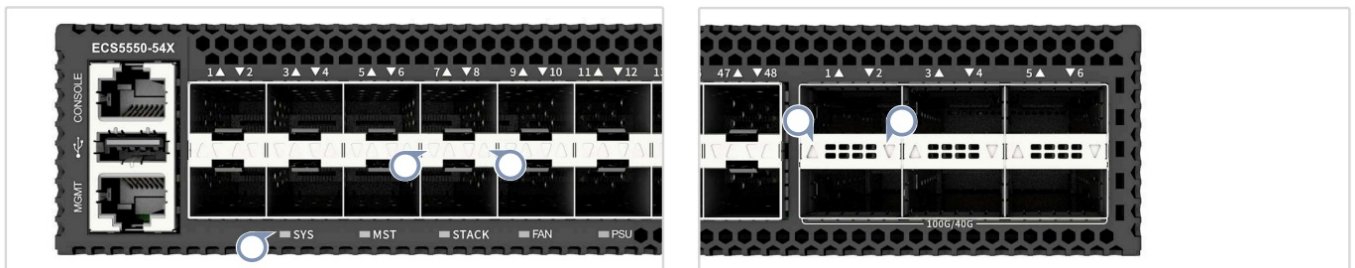

Package Contents

1. Ethernet Switch ECS5550-30X or ECS5550-54X

2. Rack mounting kit—2 front-post brackets, 2 rear-post brackets, and 16 screws

3. AC power cord

4. Console cable—RJ-45 to DE-9

5. Grounding wire

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

Overview

1. Management Ports: 1000BASE-T RJ-45, RJ-45 console, USB

2. System LEDs

3. 24 or 48 x 10G SFP+ ports

4. 6 x 100G QSFP28 ports

5. Grounding screw (maximum torque 10 kgf-cm (8.7 lb-in))
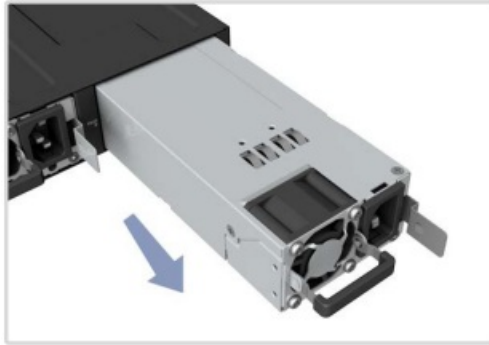
6. 4 x fan trays

7. 2 x AC PSUs

System LEDs/Buttons

- SYS: Green (OK), Flashing Green (booting), Yellow (fault)

- MST: Green (stack master)

- STACK: Green (stack mode)

- FAN: Green (OK), Yellow (fault)

- PSU: Green (OK), Yellow (fault)

- SFP+ 10G LEDs: Green (10G), Orange (1G or 2.5G)

- QSFP28 LEDs: Green (100G or 40G)
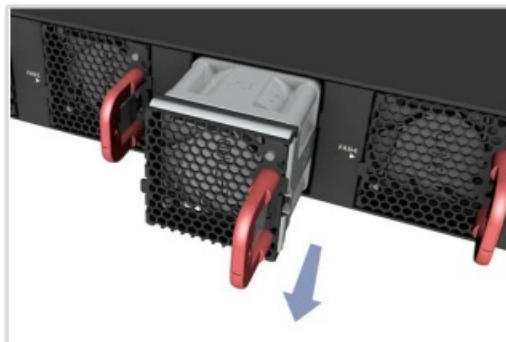
FRU Replacement

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

Installation

Warning: For a safe and reliable installation, use only the accessories and screws provided with the device. The 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.
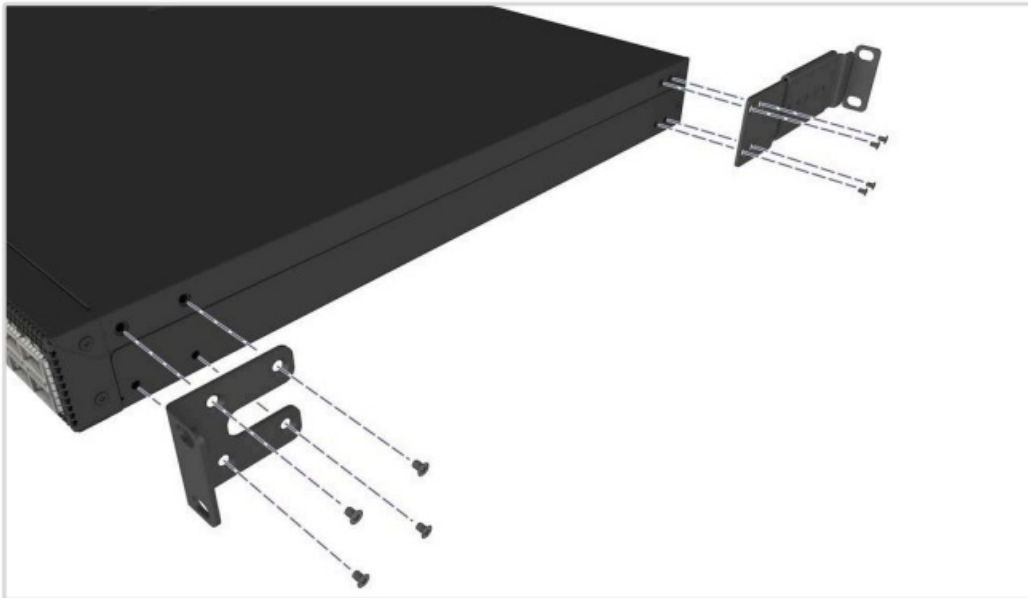
Caution: The device includes plug-in power supply (PSU) and fan tray modules that are installed into its chassis. Make sure all installed modules have a matching airflow direction.

Note: The device has the Open Network Install Environment (ONIE) software installer preloaded, but no device software image. Information about compatible software can be found at **www.edge-core.com**.

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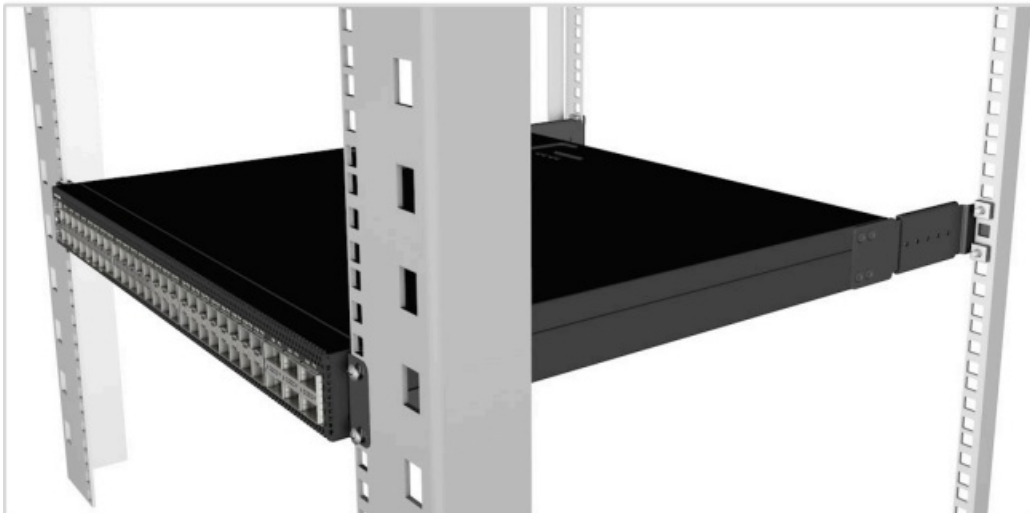
Mount the Device

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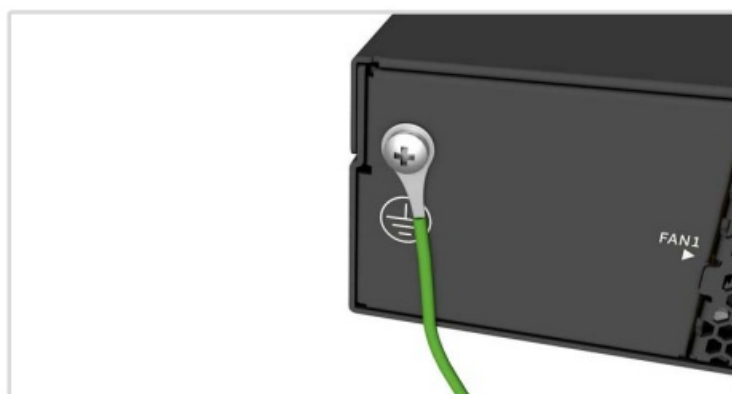
Attach the Brackets

Use the included screws to attach the front- and rear-post brackets.

Mount the Device

Mount the device in the rack and secure it with rack screws.
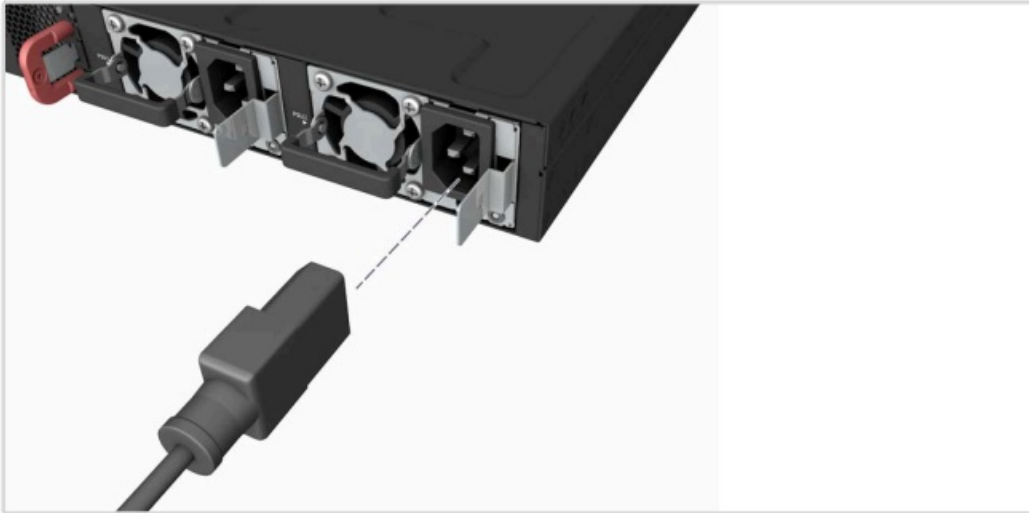
Ground the Device

Verify Rack Ground

Ensure the rack is properly grounded and in compliance with international and local standards. 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 the included grounding wire to the grounding point on the device's rear panel. Then connect the other end of the wire to rack ground.

Connect Power

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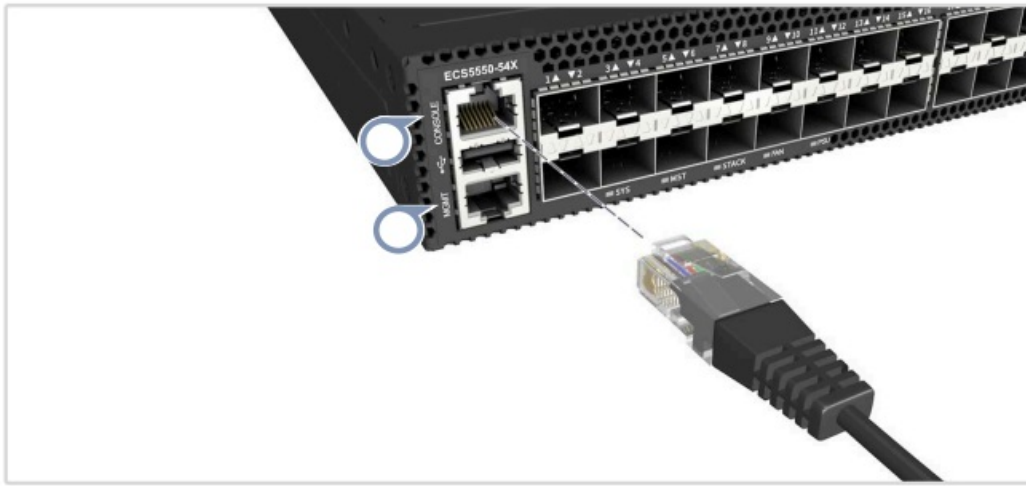
Make Network Connections

10G SFP+ and 100G QSFP28 Ports

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

Make Management Connections

10/100/1000M RJ-45 Management Port

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

RJ-45 Console Port

Connect the included console cable to a PC running terminal emulator software and then 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) 442 x 420 x 44 mm (17.4 x 16.54 x 1.73 in.)
- Weight ECS5550-30X: 8.8 kg (19.4 lb), with 2 PSUs and 4 fans installed ECS5550-54X: 8.86 kg (19.53 lb), with 2 PSUs and 4 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)
- Input Power Rating 100–240 VAC, 50/60 Hz, 7 A per power supply
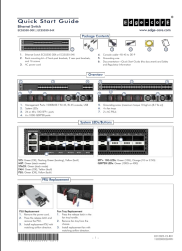
Regulatory Compliances

- Emissions EN 55032 Class A

- EN 61000-3-2
- EN 61000-3-3
- CNS 15936 Class A
- VCCI-CISPR 32 Class A
- AS/NZS CISPR 32 Class A
- ICES-003 Issue 7 Class A
- FCC Class A
- Immunity EN 55035
  - IEC 61000-4-2/3/4/5/6/8/11
- Safety UL (CSA 22.2 No 62368-1 & UL62368-1)
  - CB (IEC/EN 62368-1)
  - CNS15598-1

FAQ

- **Q: How do I replace a PSU in the Ethernet switch?**
  - A: To replace a PSU, remove the power cord, press the release latch, remove the PSU, and install the replacement PSU with matching airflow direction.
- **Q: How do I replace a fan tray in the Ethernet switch?**
  - A: To replace a fan tray, press the release latch in the fan tray handle, remove the fan tray from the chassis, and install the replacement fan with a matching airflow direction.

Documents / Resources

Edge-corE ECS5550-54X Ethernet Switch [pdf] User Guide
ECS5550-30X, ECS5550-54X, ECS5550-54X Ethernet Switch, Ethernet Switch, Switch

References

- **Edgecore Networks – Edgecore Networks, a leading provider of traditional and open network solutions, delivers wired and wireless networking products and solutions through channel partners and system integrators worldwide for data center, service provider,**
- **User Manual**