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Edge-corE®
**ECS4120
Series 28 Port
and 52 Port L2
Gigabit
Ethernet
Switches**

Edgecore ECS4120 Series 28 Port and 52 Port L2 Gigabit Ethernet Switches User Guide

Contents

Edge-corE®

Edgecore ECS4120 Series 28 Port and 52 Port L2 Gigabit Ethernet Switches

Specifications

- **Product:** ECS4120 Series L2 Gigabit Ethernet Switches
- **Ports:** 28-Port and 52-Port configurations
- **Power Input:** 100-240 VAC, 50/60 Hz AC power source or -48 to -60 VDC external power source
- **Supported Transceivers:** Various SFP/SFP+ transceivers for fiber optic cabling

Product Usage Instructions

Unpack the Switch and Check the Contents

Ensure all components are present as listed in the manual.

Mount the Switch

- **a. Mounting in a Rack:** Attach brackets to the front, secure with screws and cage nuts. Alternatively, use adhesive foot pads for desktop/shelf installation.
- **b. Mounting on a Wall:** Attach brackets to front and rear, drill holes on the wall, and secure with screws.

Ground the Switch

Ensure proper grounding as per ETSI regulations. Attach the grounding wire to the switch rear panel and rack ground.

Connect Power

- **a. AC Power:** Plug the power cord into the AC power source and switch the input socket.
- **b. DC Power:** Connect -48 VDC power feed wire and ground wire to the DC plug.

Verify Switch Operation

- Check system LEDs for normal operation indication.

Perform Initial Configuration

- Connect a PC to the console port, configure serial port settings, and log in to the CLI using default credentials.

Connect Network Cables

- **RJ-45 Ports:** Use Category 5, 5e, or better twisted-pair cables.
- **SFP/SFP+ Slots:** Install supported transceivers and connect fiber optic cabling as per specifications.

Frequently Asked Questions

- **Q: What is the default login information for the CLI?**
  - **A:** Username: admin, Password: admin

- **Q: Which transceivers are supported for SFP/SFP+ slots?**
  - **A:** The supported transceivers include 1000BASE-SX, 1000BASE-LX, 1000BASE-RJ45, 1000BASE-EX, 1000BASE-ZX, 10GBASE-SR, 10GBASE-LR, 10GBASE-RJ45, 10GBASE-ER, and 10GBASE-ZR.

Unpack the Switch and Check the Contents

ECS4120-28T

ECS4120-28Fv2

ECS4120-28Fv2-I

ECS4120-52T

- 28T/52T Mounting Kit — 4 brackets and 10 screws
  - 28Fv2/28Fv2-I Mounting Kit — 2 brackets and 4 screws
- Four adhesive foot pads
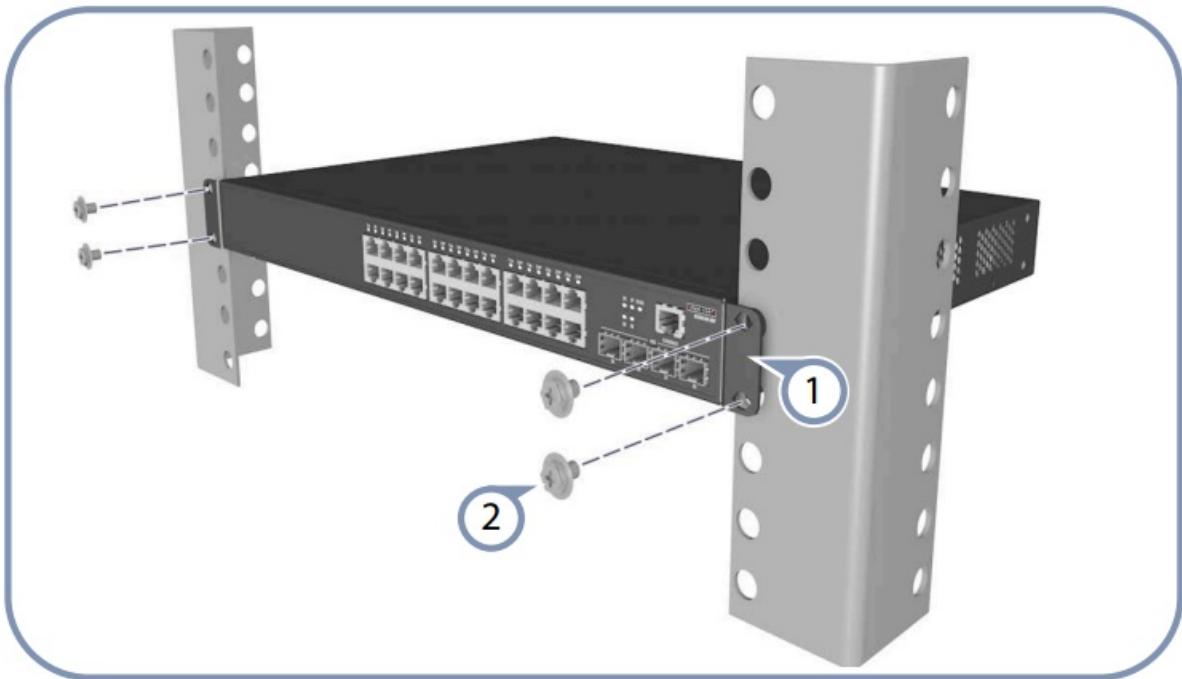- Power cord — US, Continental Europe, or UK
- Console cable — RJ-45 to DB-9
- Documentation—Quick Start Guide (this document) and Safety and Regulatory Information

Mount the Switch

a. Mounting in a Rack

1. Attach the brackets to the front of the switch.

2. 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 secures it using the rack screws.

   - **Note:** The switch can also be installed on a desktop or shelf using the included adhesive rubber foot pads.

3. **b. Mounting on a Wall**
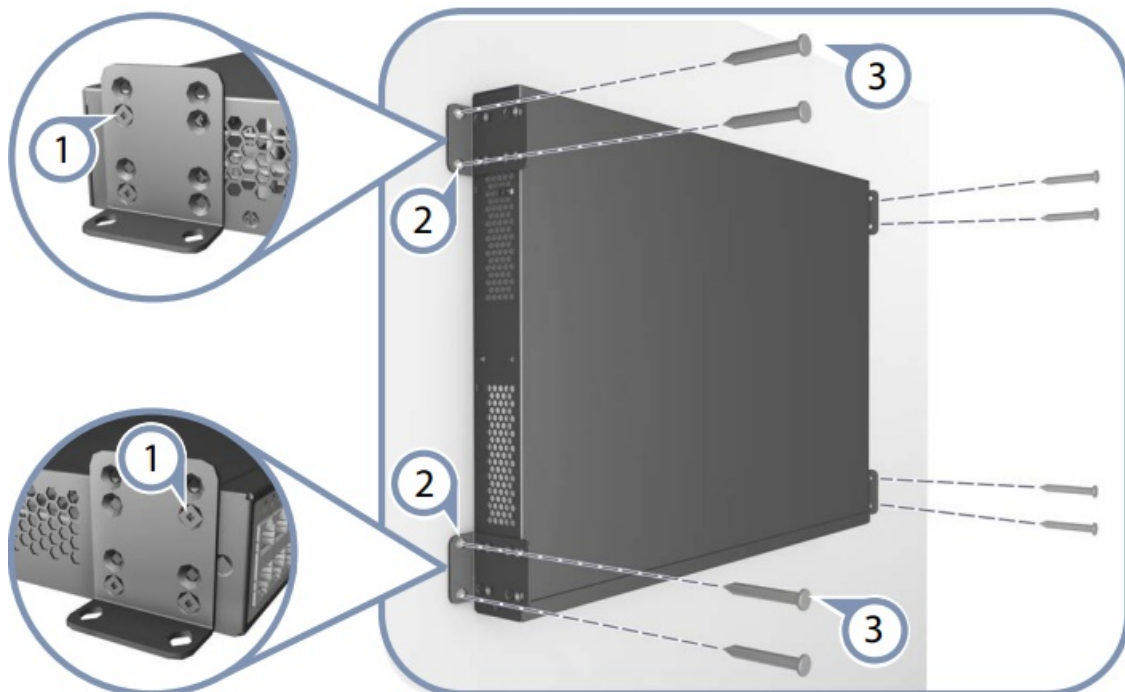
   - ⚠️**Caution:** Wall mounts the switch with the network ports facing down.

   - ⚠️**Caution:** Wall mounts the switch using four brackets (included) attached to the front and rear of the switch.

        1. Rotate the brackets 90 degrees and attach them to the front and rear of the switch. Use three screws for the front brackets and two screws for the rear brackets.

2. In the required location, mark and drill eight holes in the wall for the wall anchors (not included).

   ○ ⓘ **Note:** For a wood wall, drilling holes and using wall anchors is not required.

3. Mount the switch on the wall and secure it in place using eight #12 wood screws (5/8-inch, not included).

Ground the Switch
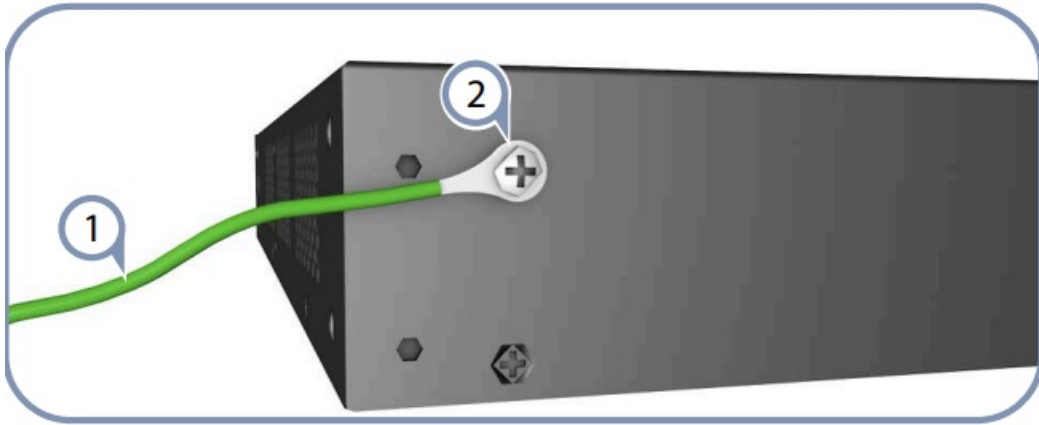
1. Ensure the rack on which the switch is to be mounted is properly grounded and in compliance with ETSI ETS 300 253.
2. Verify that there is a good electrical connection to the grounding point on the rack (no paint or isolating surface treatment).
3. Attach an 18 AWG minimum grounding wire (not included) to the grounding point on the switch rear panel, and then to the rack ground.

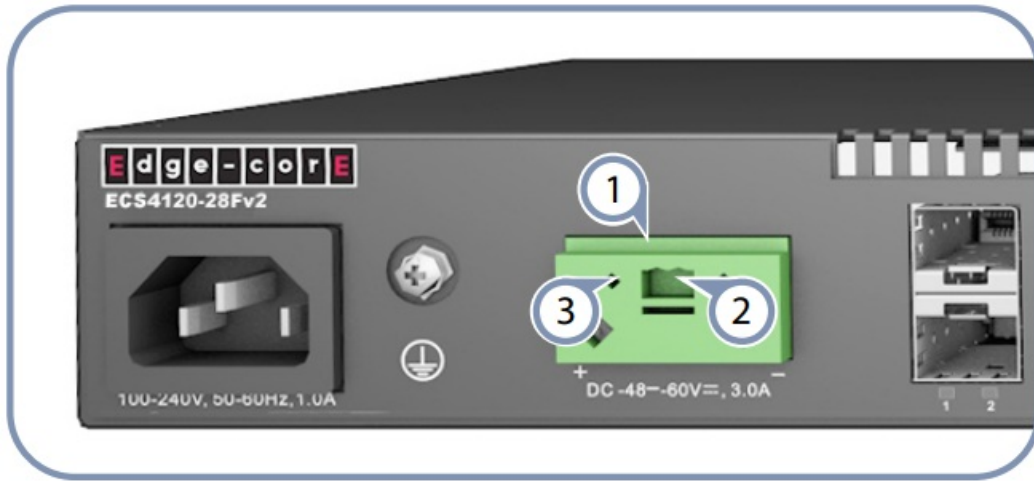   • ⚠**Caution:** The earth connection must not be removed unless all supply connections have been disconnected.

Connect Power

a. AC Power
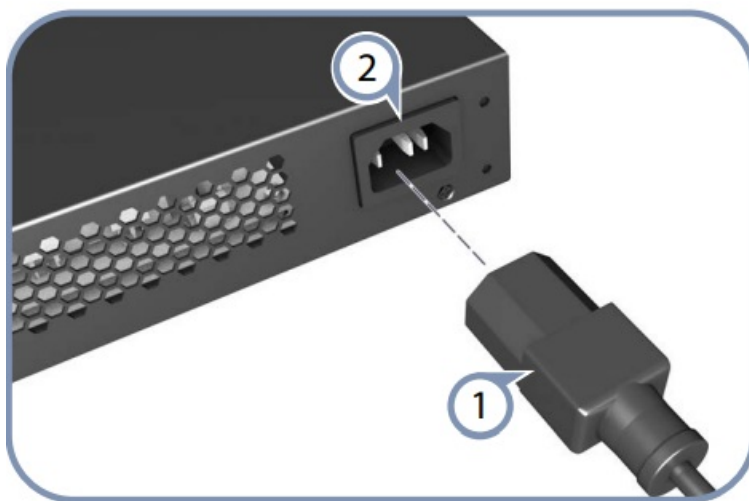
1. Plug the power cord into a 100-240 VAC, 50/60 Hz AC power source.
2. Insert the other end of the power cord directly into the AC input socket on the back of the switch.

b. DC Power

- ⚠️**Warning:** Before wiring the DC plug or connecting power to the switch, ensure that power to the feed lines is turned off at the supply circuit breaker or disconnected from the power bus.

- ⚠️**Warning:** This unit is intended to be supplied by an IEC/UL-listed DC power source suitable for whose input is rated DC -48 to -60V, 3.0 A.

1. The ECS4120-28Fv2/ECS4120-28Fv2-I switch supports the option of connecting an external -48 to -60 VDC power source to its DC terminal block.
2. Connect the -48 VDC power feed wire to the DC plug "-" pin.
3. Connect the ground/return wire to the DC plug "+" pin.
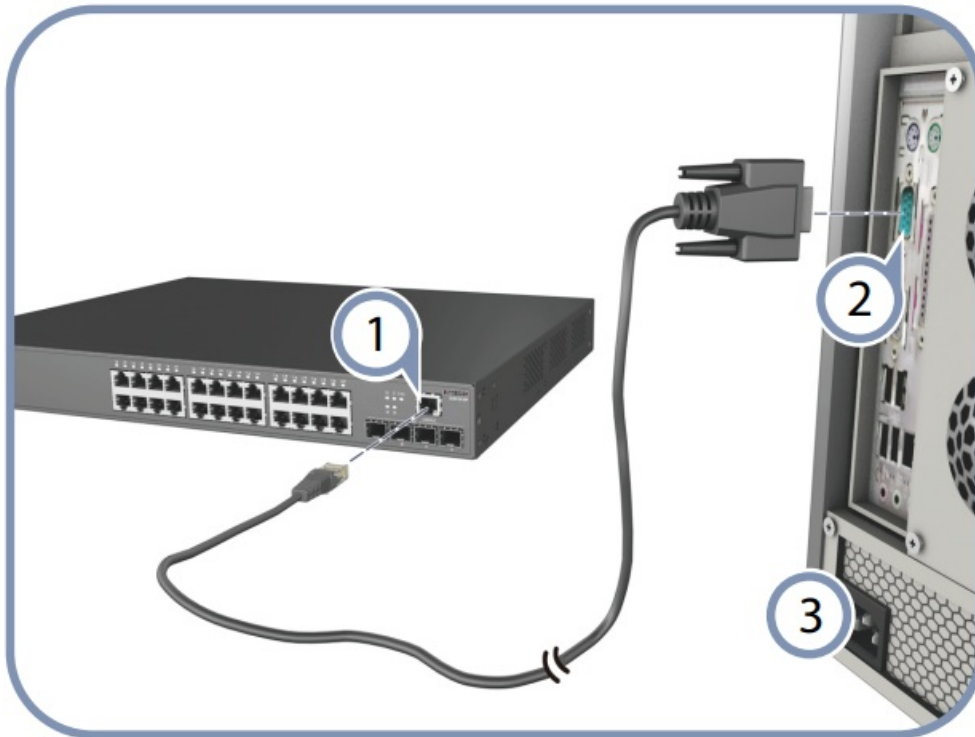
Verify Switch Operation
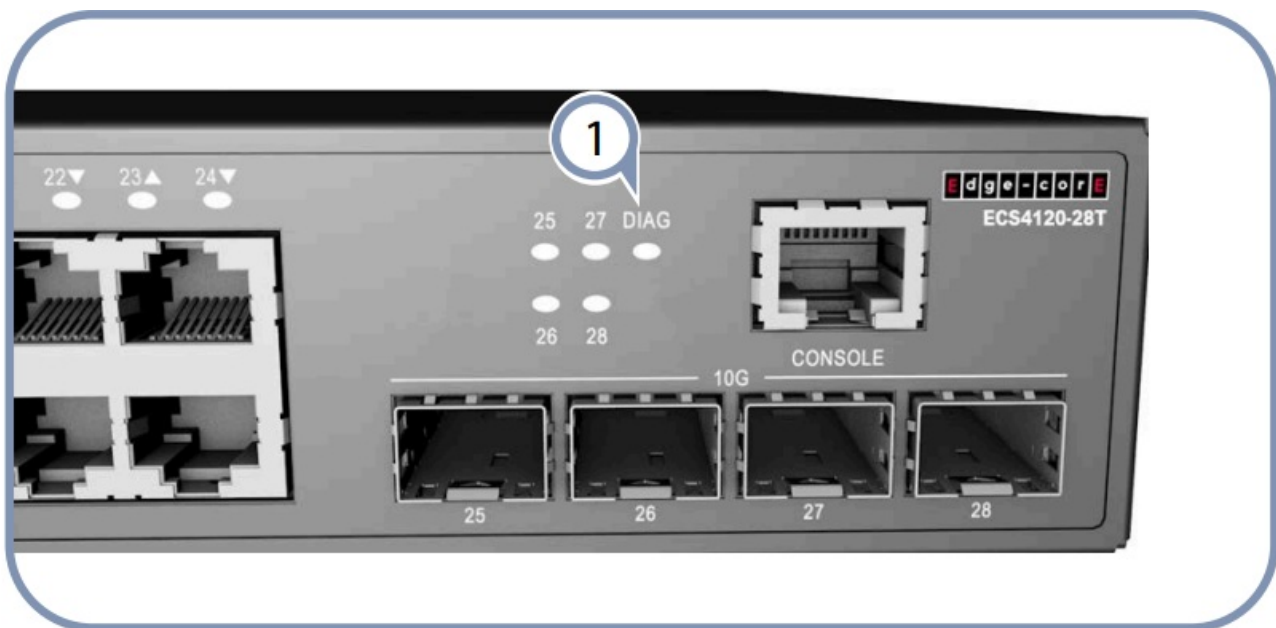
1. Verify basic switch operation by checking the system LEDs.

When operating normally, the following LEDs should be on green:

- **28T/52T:** DIAG
- **28Fv2/28Fv2-I:** PWR and DIAG

Perform Initial Configuration

1. Connect a PC to the switch console port using the included console cable.
2. Configure the PC's serial port: 115200 bps, 8 characters, no parity, one stop bit, 8 data bits, and no flow control.
3. Log in to the CLI using default settings: Username "admin" and password "admin."

- ⓘ **Note:** For further information on switch configuration, refer to the Web Management Guide and CLI Reference Guide.

Connect Network Cables
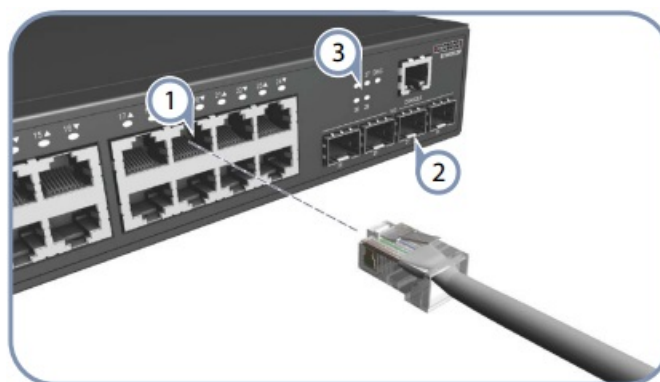
1. For RJ-45 ports, connect 100-ohm Category 5, 5e or better twisted-pair cable.
2. For the SFP/SFP+ slots, first, install SFP/SFP+ transceivers and then connect fiber optic cabling to the transceiver ports.
   - **The following transceivers are supported:**
   - 1000BASE-SX (ET4202-SX)

- 1000BASE-LX (ET4202-LX)
- 1000BASE-RJ45 (ET4202-RJ45)
- 1000BASE-EX (ET4202-EX)
- 1000BASE-ZX (ET4202-ZX)
- 10GBASE-SR (ET5402-SR)
- 10GBASE-LR (ET5402-LR)
- 10GBASE-RJ45 (ET5402-RJ45)
- 10GBASE-ER (ET5402-ER)
- 10GBASE-ZR (ET5402-ZR)

3. As connections are made, check the port status LEDs to be sure the links are valid.
    - **On**/**Blinking Green** — Port has a valid link. Blinking indicates network activity.

Hardware Specifications

Switch Chassis

- **Size (W x D x H) 28T:** 44.0 x 22.0 x 4.4 cm (17.32 x 8.66 x 1.73 in)
    - 28Fv2/28Fv2-I: 44.0 x 22.0 x 4.4 cm (17.32 x 8.66 x 1.73 in)
    - 52T: 44.0 x 28.0 x 4.4 cm (17.32 x 11.02 x 1.73 in)
- **Weight** 28T: 2.47 kg (5.45 lb)
    - 28Fv2/28Fv2-I: 2.82 kg (6.22 lb)
    - 52T: 3.76 kg (8.29 lb)
- **Temperature Operating:** 0° C to 50° C (32° F to 122° F)
    - Operating: -10° C to 65° C (14° F to 149° F,
    - ECS4120-28Fv2-I only)
    - Storage: -40° C to 70° C (-40° F to 158° F)
- **Humidity Operating:** 5% to 95% (non-condensing)
- **AC Input Power 28T:** 100-240 VAC, 50/60 Hz, 0.37-0.22 A
    - 28Fv2: 100-240 VAC, 50/60 Hz 1 A
    - 28Fv2-I: 100-240 VAC, 50/60 Hz 1.2 A
    - 52T: 100-240 VAC, 50/60 Hz, 0.75-0.42 A
- **DC Input Power 28Fv2/28Fv2-I:** -48 – -60 VDC, 3.0 A
- **Max.** Power
- **Consumption** 28T: 20 W
   - 28Fv2/28Fv2-I: 60 W
    - 52T: 60 W

Regulatory Compliances

- **Emissions** EN 55032 Class A
    - EN IEC 61000-3-2 Class A
    - EN 61000-3-3
    - FCC Class A
    - VCCI Class A

- ○ CE Mark
- **Immunity** EN 55035
  - ○ IEC 61000-4-2/3/4/5/6/8/11
- **Safety** UL/CUL (UL 62368-1, CAN/CSA C22.2 No. 62368- 1)
  - ○ CB (IEC 62368-1/EN 62368-1) BSMI (CNS14336-1) (ECS4120-28T only) BSMI (CNS15998-1) (ECS4120-28Fv2/ECS4120- 28Fv2-I only)
- **Taiwan** RoHS CNS 15663 (ECS4120-28T only)
- **TEC** Certified ID 379400891 (ECS4120-28Fv2/ ECS4120-28Fv2-I only)
- **www.edge-core.com**

Documents / Resources
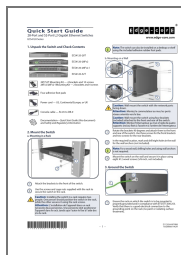
	Edgecore ECS4120 Series 28 Port and 52 Port L2 Gigabit Ethernet Switches [pdf] User Guide ECS4120-28T, ECS4120-28Fv2, ECS4120-28Fv2-I, ECS4120-52T, ECS4120 Series 28 Port and 52 Port L2 Gigabit Ethernet Switches, ECS4120 Series, 28 Port and 52 Port L2 Gigabit Ethernet Switches, Port L2 Gigabit Ethernet Switches, Gigabit Ethernet Switches, Ethernet Switches

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**