Manuals+ — User Manuals Simplified.

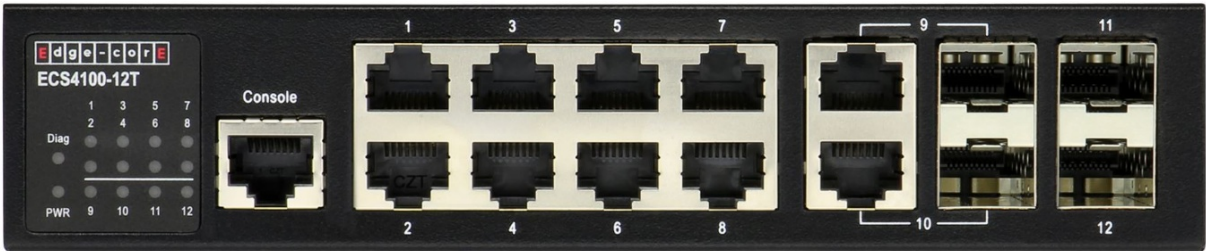# Edge-corE ECS4100 Series Switch User Guide

Contents

Edge-corE ECS4100 Series Switch

Product Information

ECS4100 Series Switch

The ECS4100 Series Switch is a high-performance Ethernet switchdesigned for small to medium-sized businesses. It is available in different models, including ECS4100-12T, ECS4100-12PH, ECS4100-28TC, ECS4100-28T, ECS4100-28P, ECS4100-52T, and ECS4100-52P. The switch comes with a rack mounting kit, adhesivefoot pads, power cord, console cable, and documentation.

- Rack Mounting Kit – includes two brackets and eight screws
- Adhesive Foot Pads – four foot pads for desktop or shelf installation
- Power Cord – available in Japan, US, Continental Europe or UK versions
- Console Cable – RJ-45 to DB-9 cable for connecting to a PC
- Documentation – Quick Start Guide and Safety and Regulatory Information

Note that the ECS4100 Series Switches are for indoor use only. Safety and regulatory information is included in the documentation.Other documentation, including the Web Management Guide and CLI Reference Guide, can be found on **www.edge-core.com**.

Product Usage Instructions

ECS4100 Series Switch

1. **Unpack the Switch and Check Contents:** Unbox the switch and check if all the components are included in the package. Ensure that you have the correct power cord for your region.
2. **Mount the Switch:** Attach the brackets to the switch and secure it in the rack using the screws and cage nutssupplied with the rack. Alternatively, use the adhesive rubber foot pads for desktop or shelf installation.
3. **Ground the Switch:** Ensure that the rack on which the switch is mounted is properly grounded and in compliance with ETSI ETS 300 253. Connect a grounding wire to the grounding point on the switch and then connect the other end of the wire to rack ground. Do not remove the earth connection unless all supply connections have been disconnected.
4. **Connect AC Power:** Plug the AC power cord into the socket on the rear of the switch and connect the other end to an AC power source. Use a line cord set approved for the socket type in your country.
5. **Verify Switch Operation:** Check the system LEDs to verify basic switch operation. When operating normally, the Power and Diag LEDs should be on green.
6. **Perform Initial Configuration:** Connect network cables to the switch ports. For RJ-45 ports, use 100-ohm Category 5, 5e or better twisted-pair cable. For SFP/SFP+ slots, install SFP/SFP+ transceivers first and then connect fiber optic cabling tothe transceiver ports. Check the port status LEDs to ensure that the links are valid. Connect a PC to the switch console port using the included console cable. Configure the PC's serial port and log in to the CLI using default settings.

For further information on switch configuration, refer to the Web Management Guide and CLI Reference Guide.

Unpack

Unpack the Switch and Check Contents

ECS4100-12T

ECS4100-12PH

ECS4100-28TC

ECS4100-28T

ECS4100-28P

ECS4100-52T

ECS4100-52P

- Rack Mounting Kit—two brackets and eight screws
- Four adhesive foot pads
- Power Cord—either Japan, US, Continental Europe or UK
- Console Cable—RJ-45 to DB-9
- Documentation—Quick Start Guide (this document) and Safety and Regulatory Information

- **Note:** The ECS4100 series switches are for indoor use only.
- **Note:** For safety and regulatory information, refer to the Safety and Regulatory Information document included with the switch.
- **Note:** Other documentation, including the Web Management Guide, and CLI Reference Guide, can be obtained from **www.edge-core.com**.

Mount the Switch
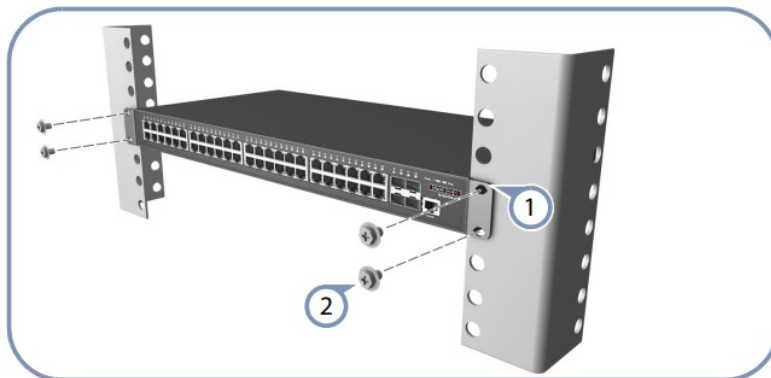
1. Attach the brackets to the switch.
2. Use the screws and cage nuts supplied with the rack to secure the switch in the rack.

- **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.

Ground the Switch
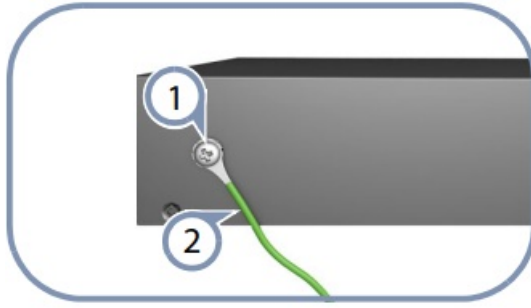
1. Ensure the rack on which the switch is to be mounted is properly grounded and in compliance with ETSI ETS 300 253. Verify that there is a good electrical connection to the grounding point on the rack (no paint or isolating surface treatment).
2. Attach a lug (not provided) to a #18 AWG minimum grounding wire (not provided), and connect it to the grounding point on the switch using a 3.5 mm screw and washer. Then connect the other end of the wire to rack ground.

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

Connect AC Power
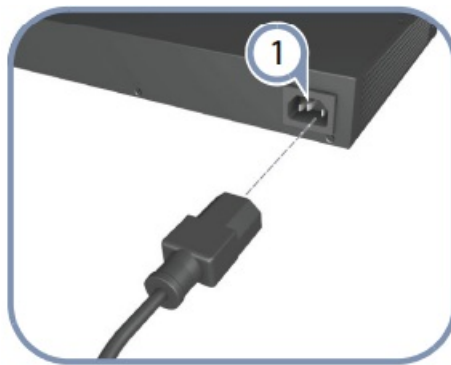
1. Plug the AC power cord into the socket on the rear of the switch.
2. Connect the other end of the power cord to an AC power source.
   Note: For International use, you may need to change the AC line cord. You must use a line cord set that has been approved for the socket type in your country

Verify Switch Operation

Verify basic switch operation by checking the system LEDs. When operating normally, the Power and Diag LEDs should be on green.

Perform Initial Configuration
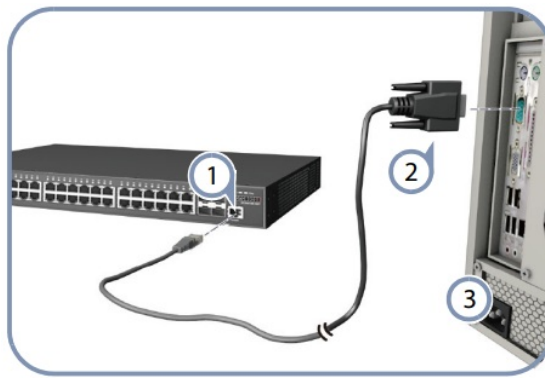
- Connect a PC to the switch console port using the included console cable.
- Configure the PC's serial port: 115200 bps, 8 characters, no parity, one stop bit, 8 data bits, and no flow control.
- Log in to the CLI using default settings: Username "admin" and password "admin."
- **Note:** For further information on switch configuration, refer to the Web Management Guide and CLI Reference Guide.

Connect Network Cables
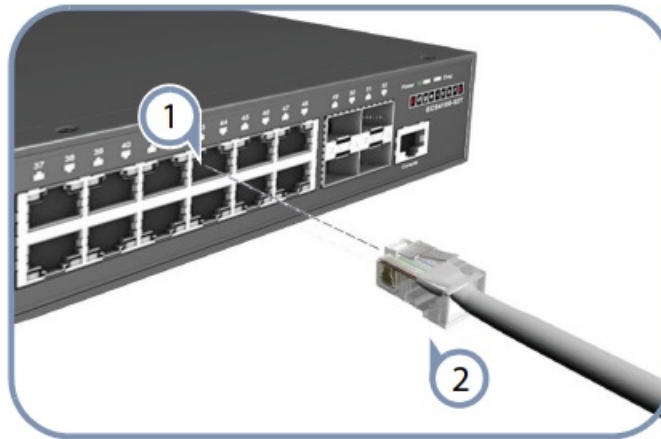
1. For RJ-45 ports, connect 100-ohm Category 5, 5e or better twisted-pair cable.
2. For the SFP/SFP+ slots, first install SFP/SFP+ transceivers andthen connect fiber optic cabling to the transceiver ports. The following transceivers are supported:
    - 1000BASE-SX (ET4202-SX)
    - 1000BASE-LX (ET4202-LX)
    - 1000BASE-RJ45 (ET4202-RJ45)
    - 1000BASE-EX (ET4202-EX)
    - 1000BASE-ZX (ET4202-ZX)
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.
    - On Amber — Port is supplying PoE power.

Hardware Specifications

Switch Chassis

- **Size (W x D x H) 12T:** 18.0 x 16.5 x 3.7 cm (7.08 x 6.49 x 1.45 in) 12PH: 33.0 x 20.5 x 4.4 cm (12.9 x 8.07 x

1.73 in) 28T/52T: 44 x 22 x 4.4 cm (17.32 x 8.66 x 1.73 in) 28TC: 33 x 23 x 4.4 cm (12.30 x 9.06 x 1.73 in) 28P/52P: 44 x 33 x 4.4 cm (17.32 x 12.30 x 1.73 in)

- **Weight** 12T: 820 g (1.81 lb) 12PH: 2.38 kg (5.26 lb)28T: 2.2 kg (4.85 lb) 28TC: 2 kg (4.41 lb) 28P: 3.96 kg (8.73 lb) 52T: 2.5 kg (5.5 lb) 52P: 4.4 kg (9.70 lb)

- **Operating Temperature**

  All except below: 0°C to 50°C (32°F to 122°F) 28P/52P only: -5°C to 50°C (23°F to 122°F) 52T only: 0°C to 45°C (32°F to 113°F) 12PH@70 W only: 0°C to 55°C (32°F to 131°F)12PH@125 W only: 5°C to 55°C (23°F to 131°F) 12PH@180   only: 5°C to 50°C (23°F to 122°F)

- **Storage Temperature**

  -40°C to 70°C (-40°F to 158°F)

- **Operating Humidity (noncondensing)**

 All except below: 10% to 90%28P/52P only: 5% to 95% 12T/12PH only: 0% to 95%

Power Specification

- **AC Input Power** 12T: 100-240 VAC, 50-60 Hz, 0.75 A 12PH: 100-240 VAC, 50/60 Hz, 4A 28T: 100-240 VAC, 50/60 Hz, 1 A 28TC:100-240 VAC, 50-60 Hz, 0.75 A 28P: 100-240 VAC, 50-60 Hz, 4 A 52T: 100-240 VAC, 50/60 Hz, 1 A

  52P: 100-240 VAC, 50-60 Hz, 6 A

- **Total Power Consumption**

  - 12T: 30 W
  - 12PH: 230 W (with PoE function)
  - 28T: 20 W
  - 28TC: 20 W
  - 28P: 260 W (with PoE function)
  - 52T: 40 W
  - 52P: 420 W (with PoE function)

- **PoE Power Budget**

  - 12PH: 180 W
  - 28P: 190 W
  - 52P: 380 W

Regulatory Compliances

- **Emissions** EN55032:2015+A1:2020, Class A EN IEC 61000-3-2:2019+A1:2021, Class A EN 61000-3-3:2013+A1:2019 CCC (GB9254-2008, Class A)* BSMI (CNS13438) FCC Class A VCCI Class A
- **Immunity** EN 55035:2017+A11:2020 IEC 61000-4-2/3/4/5/6/8/11
- **Safety** UL/CUL (UL 60950-1, CSA 22.2 No 60950-1, UL 62368-1, CAN/CSA C22.2 No. 62368-1) CB (IEC 60950-1/EN 60950-1/IEC 62368-1/EN 62368-1) CCC GB 4943.1-2011* BSMI CNS14336-1
- **Taiwan** RoHS CNS15663

  *Except ECS4100-28T

Documents / Resources
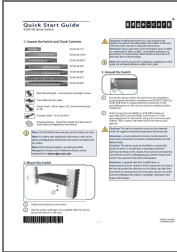
Edge-corE ECS4100 Series Switch [pdf] User Guide
ECS4100 Series Switch, ECS4100 Series, Switch

References

- **Edgecore Networks**