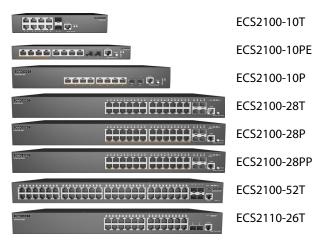# Quick Start Guide

10/28/52-Port Web-Smart Pro Gigabit Ethernet Switch
26-Port Web-Smart Pro 10G Ethernet Switch

Edge-corE ®

1. Unpack the Switch and Check Contents

ECS2100-10T

ECS2100-10PE

ECS2100-10P

ECS2100-28T

ECS2100-28P

ECS2100-28PP

ECS2100-52T

ECS2110-26T

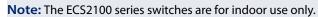Rack Mounting Kit—two brackets and eight screws

Four adhesive foot pads

Power Cord—either Japan, US, Continental Europe or UK

Console Cable—RJ-45 to DB-9 (Optional item)

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

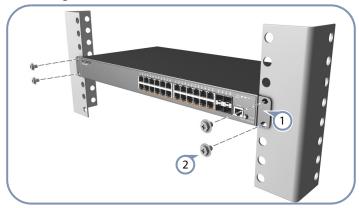ⓘ **Note:** The ECS2100 series switches are for indoor use only.

Note: For Safety and Regulatory information, refer to the *Safety and Regulatory Information* document included with the switch.

Note: Other documentation, including the Installation Guide, Web Management Guide, and CLI Reference Guide, can be obtained from **www.edge-core.com**.

2. Mount the Switch

a. Mounting in a Rack

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.
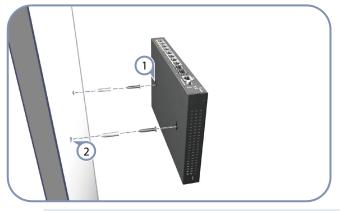
⚠ **Caution:** Installing the switch in a rack requires two people. One person should position the switch in the rack, while the other secures it using the rack screws.

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

b. Mounting in a Rack (ECS2100-10PE only)

⚠ **Caution:** For safe operation, install the switch with RJ-45 ports facing up.

① Set two screws in the wall 150 mm (5.9 in.) apart.

② Slide the switch's wall mounting slots down onto the screws so that the unit is secure.
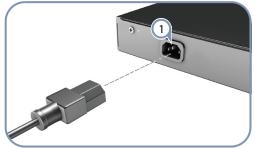
3. Ground the Switch

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 #12 AWG (PoE switch) or #18 AWG (non-PoE switch) minimum grounding wire (not provided), and connect it to the grounding point on the switch rear panel. 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.
Caution: The device must be installed in a restricted-access location. It should have a separate protective earthing terminal on the chassis that must be permanently connected to earth to adequately ground the chassis and protect the operator from electrical hazards.

4. Connect Power

a. 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. Verify that the external AC power requirements for the switch can be met as listed below:
ECS2100-10T: AC 100-240 V, 50-60 Hz, 0.5 A
ECS2100-10P: AC 100-240 V, 50-60 Hz, 2.1 A
ECS2100-28T: AC 100-240 V, 50-60 Hz, 0.5 A
ECS2100-28P: AC 100-240 V, 50-60 Hz, 3.2 A
ECS2100-28PP: AC 100-240 V, 50-60 Hz, 5.8 A
ECS2100-52T: AC 100-240 V, 50/60 Hz,1 A
ECS2110-26T: AC 100-240 V, 50/60 Hz,1 A

⚠ **Warning:** For the ECS2100-10P, the bottom of the enclosure is a hot surface. Do not touch!

ⓘ **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.

b. Connect DC power to ECS2100-10PE

ⓘ **Note:** The ECS2100-10PE includes an AC-DC power adapter. Connect the AC-DC power adapter to the switch and to an AC power source. The AC-DC adapter provides 54 VDC, 1.67 A of power to the switch.
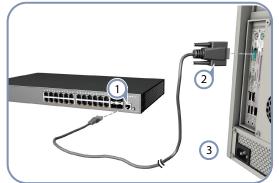
① Plug the DC power cable into the socket on the rear of the switch.

② Plug the AC-DC power adapter into a nearby AC power outlet.

5. Verify Switch Operation

① Verify basic switch operation by checking the system LEDs. When operating normally, the Power and Diag LEDs should be on green.
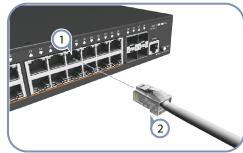
6. Perform Initial Configuration

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*.

7. 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 (ET4201-SX)
   - 1000BASE-LX (ET4201-LX)
   - 1000BASE-ZX (ET4201-ZX)
   - 1000BASE-LHX (ET4201-LHX)
   - 10GBASE-SR (ET5402-SR)
   - 10GBASE-LR (ET5402-LR)
   - 10GBASE-ER (ET5402-ER)

3. As connections are made, check the port status LEDs to be sure the links are valid. Press the Mode button to change from Ethernet to PoE status:
   - On/Blinking Green — Port has a valid link. Blinking indicates network activity.
   - On Amber — Port is supplying PoE power.

8. Hardware Stacking Connection (Optional)

1. Install the ECS2100-28PP in a standard 19-inch rack and power on.

2. Install the PS3000 chassis in a standard 19-inch rack.

3. Install one or more EPS460W PSUs in the chassis. The chassis can support up to three EPS460W PSUs.

4. Use the PSU cable (provided) to connect each EPS460W PSU to an ECS2100-28PP switch.

5. Connect the AC power cord to power on the EPS460W PSU, and check the LEDs on the PSUs to ensure proper operation. The Link LEDs for connected switches should light up.

Hardware Specifications

Switch Chassis

Size (W x D x H)	ECS2100-10T: 19.64 x 11.71 x 3.66 cm (7.73 x 4.61 x 1.44 in.) ECS2100-10P: 33.0 x 20.4 x 4.26 cm (12.99 x 8.03 x 1.67 in.) ECS2100-10PE: 24.0 x 15.5 x 2.65 cm (9.44 x 6.10 x 1.04 in.) ECS2100-28T/28P/28PP/52T, ECS2110-26T: 44 x 22 x 4.4 cm (17.32 x 8.66 x 1.73 in.)
Weight	ECS2100-10T: 816 g (1.8 lb) ECS2100-10P: 2.4 kg (5.34 lb) ECS2100-10PE: 973 g (2.15 lb) ECS2100-28T: 2.2 kg (4.86 lb) ECS2100-28P: 2.8 kg (6.18 lb) ECS2100-28PP: 3.1 kg (6.85 lb) ECS2100-52T: 2.5 kg (5.5 lb) ECS2110-26T 2.2 kg (4.85 lb)
Temperature	Operating: 0 ° C to 50 ° C (32 ° F to 122 ° F) Operating: 0 ° C to 45 ° C (32 ° F to 113 ° F, ECS2100-28PP only) Operating: 0 ° C to 40 ° C (32 ° F to 104 ° F, ECS2100-10P and ECS2100-28PP with one EPS460W only) Storage: -40 ° C to 70 ° C (-40 ° F to 158 ° F)
Humidity	Operating: 10% to 90% (non-condensing)

Power Specification

AC Input Power	ECS2100-10T: AC 100-240 V, 50-60 Hz, 0.5 A ECS2100-10P: AC 100-240 V, 50-60 Hz, 2.1 A ECS2100-28T: AC 100-240 V, 50-60 Hz, 0.5 A ECS2100-28P: AC 100-240 V, 50-60 Hz, 3.2 A ECS2100-28PP: AC 100-240 V, 50-60 Hz, 5.8 A ECS2100-52T: AC 100-240 V, 50/60 Hz, 1 A ECS2110-26T: AC 100-240 V, 50/60 Hz, 1 A
AC-DC Power Adapter (ECS2100-10PE only)	Input: AC 100-240 V, 50-60 Hz, 1 A Output: 54 VDC, 1.67A
Total Power Consumption	ECS2100-10T: 8 W ECS2100-10P: 160 W ECS2100-10PE: 80 W ECS2100-28T: 20 W ECS2100-28P: 260 W ECS2100-28PP: 490 W ECS2100-28PP+ one extended power supply: 950 W ECS2100-52T: 40 W ECS2110-26T: 20 W

Regulatory Compliances

Emissions	CE Mark • EN 55022, Class A FCC Class A BSMI Certificate

Immunity	IEC 61000-3-3, 61000-4-2/3/4/5/6/11
Safety	UL/CUL(UL60950-1, CSA60950-1) CB (IEC60950-1) CSA/NRTL (UL60950, CSA 22.2.No 60950) EN 60950-1:2006+A11:2009+A1: 2010+A12:2011+A2:2013 / IEC 60950-1:2005; Am1:2009; CSA22.2 No. 60950-1-07 2nd; UL 60950-1 2nd CB (IEC/EN 60950-1)