



# Edge-core ECS2100 Series 52-Port Gigabit Web-Smart Pro Switches User Guide

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**Edge-core ECS2100 Series 52-Port Gigabit Web-Smart Pro Switches**



## Unpack the Device and Check Contents



ECS2100-10T TIP



ECS2100-10PE TIP



ECS2100-10P TIP



ECS2100-28T TIP



ECS2100-28P TIP



ECS2100-28PP TIP



ECS2100-52T TIP



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)



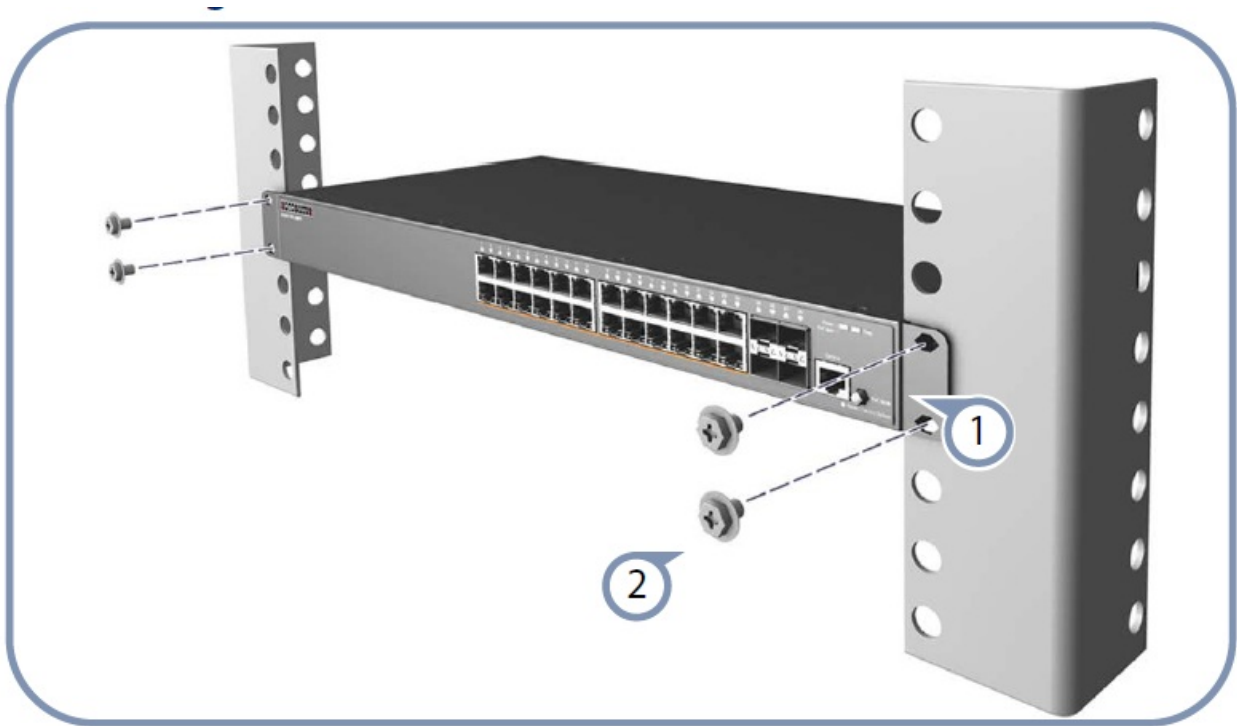
Documentation—*Quick Start Guide* (this document) and *Safety and Regulatory Information*

**Note:**

- The ECS2100 TIP series devices are for indoor use only.
- For Safety and Regulatory information, refer to the Safety and Regulatory Information document included with the device.
- Other documentation, including the Installation Guide, Web Management Guide, and CLI Reference Guide, can be obtained from [www.edge-core.com](http://www.edge-core.com)

## Mount the Device

### a. Mounting in a Rack

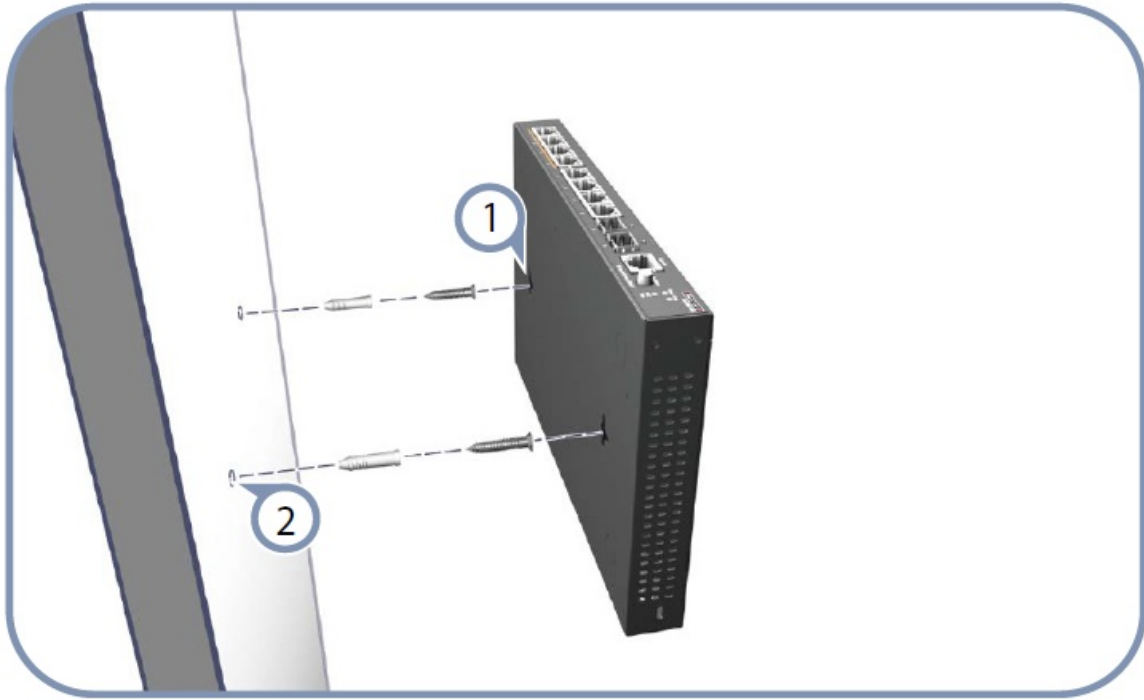


1. Attach the brackets to the device.
2. Use the screws and cage nuts supplied with the rack to secure the device in the rack.

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

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

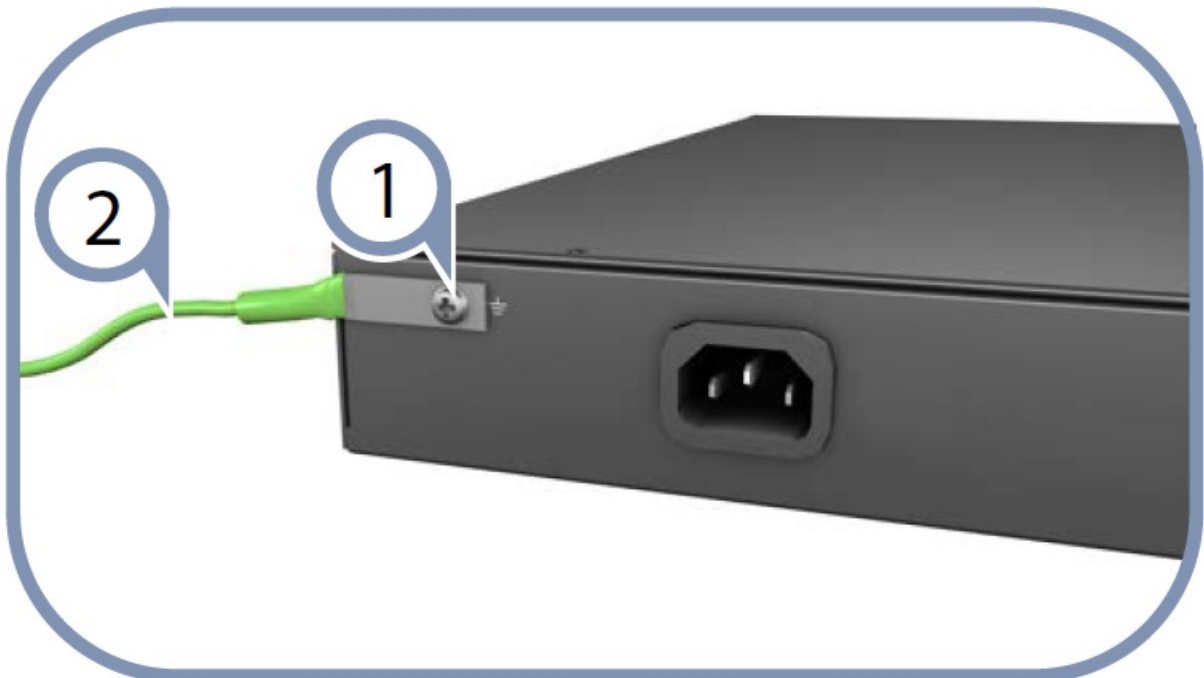
### b. Mounting in a Rack (ECS2100-10PE TIP only)



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

1. Set two screws in the wall 150 mm (5.9 in.) apart.
2. Slide the device's wall mounting slots down onto the screws so that the unit is secure.

### Ground the Device



1. 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).
2. Attach a lug (not provided) to a #12 AWG (PoE device) or #18 AWG (non-PoE device) minimum grounding wire

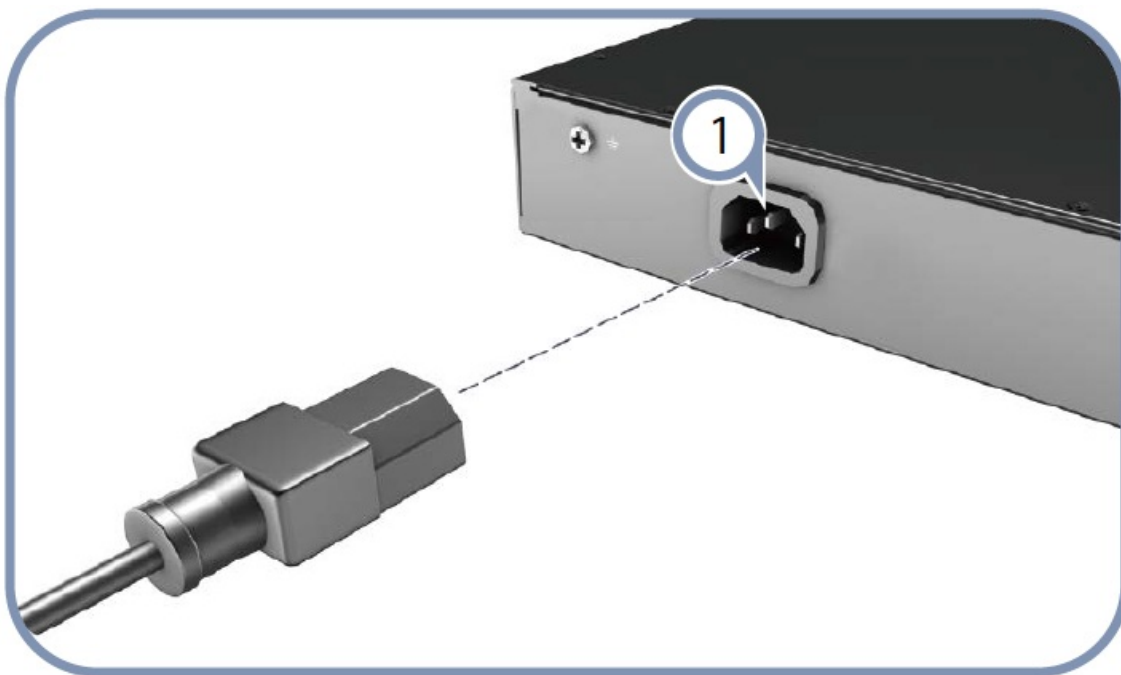
(not provided), and connect it to the grounding point on the device rear panel. Then connect the other end of the wire to rack ground.

**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.

## Connect Power

### a. Connect AC Power



1. Plug the AC power cord into the socket on the rear of the device.
2. Connect the other end of the power cord to an AC power source. Verify that the external AC power requirements for the device can be met as listed below:  
ECS2100-10T TIP: AC 100-240 V, 50-60 Hz, 0.5 A ECS2100-10P TIP: AC 100-240 V, 50-60 Hz, 2.1 A  
ECS2100-28T TIP: AC 100-240 V, 50-60 Hz, 0.5 A (Not for China), AC 100-240 V, 50/60 Hz, 0.5 A  
ECS2100-28P TIP: AC 100-240 V, 50-60 Hz, 3.2 A ECS2100-28PP TIP: AC 100-240 V, 50-60 Hz, 5.8 A  
ECS2100-52T TIP: AC 100-240 V, 50/60 Hz, 1 A

**Warning:** For the ECS2100-10P TIP, 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.

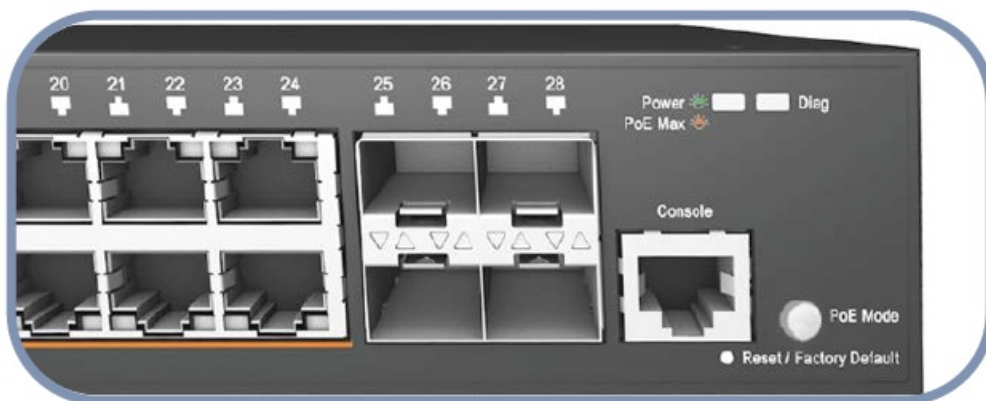
### b. Connect DC Power to ECS2100-10PE TIP



**Note:** The ECS2100-10PE TIP includes an AC-DC power adapter. Connect the AC-DC power adapter to the device and to an AC power source. The AC-DC adapter provides 54 VDC, 1.67 A of power to the device.

1. Plug the DC power cable into the socket on the rear of the device.
2. Plug the AC-DC power adapter into a nearby AC power outlet.

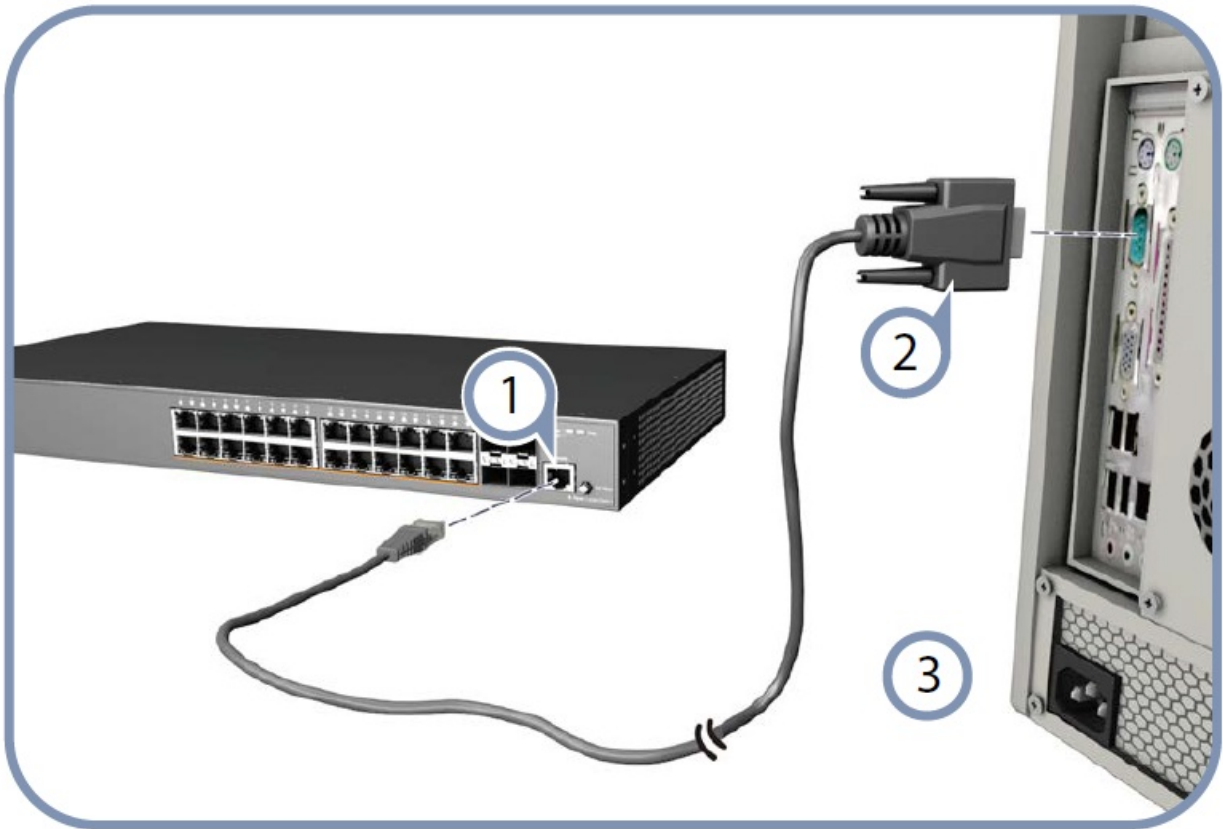
### Verify Device Operation



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

### Perform Initial Configuration

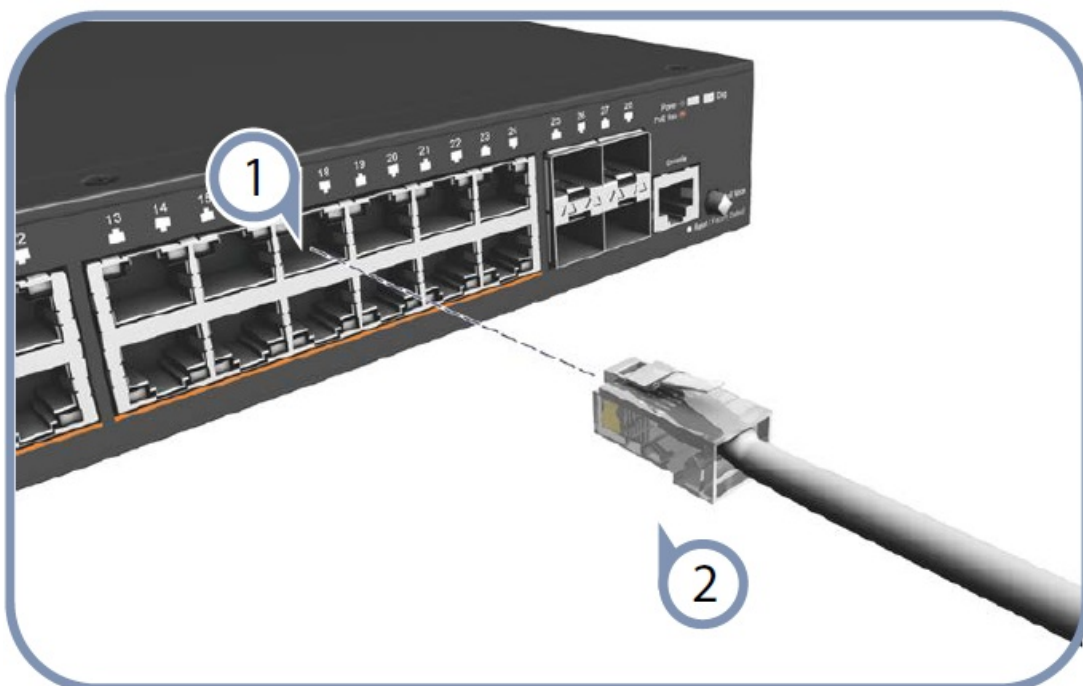




1. Connect a PC to the device console port using the included console cable.
2. Configure the PC's serial port: 115200 bps, 8 characters, no parity, one stop bit, 8 data bits, and no flow control.
3. Log in to the CLI using default settings: Username "root" and password "open wifi."

**Note:** For further information on device 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 (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.

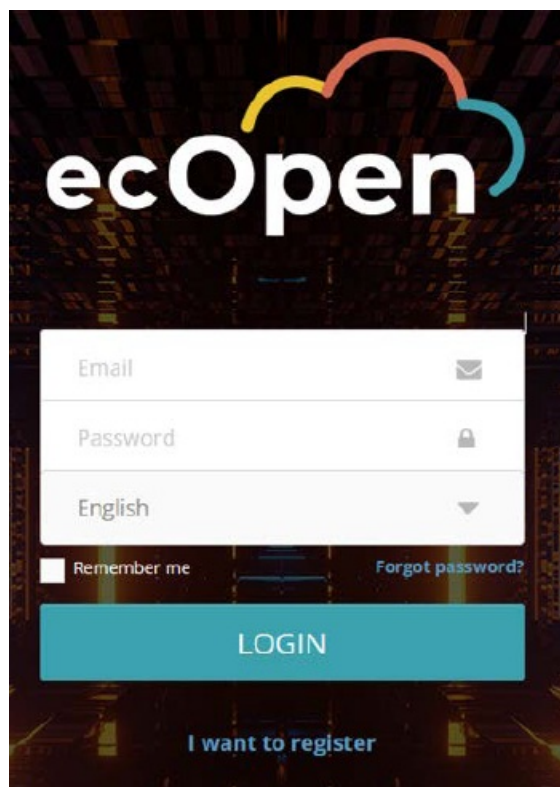
### Hardware Stacking Connection (Optional)



1. Install the ECS2100-28PP TIP 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 TIP device.
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 devices should light up.



## Initial Setup and Registration



There are two options for setting up the device for your network:

When the device is first connected to the Internet through a network port, it is automatically redirected to ecOpen (<https://cloud.openwifi.ignitenet.com/>). Enter the device's MAC address and serial number for registration.

By default, the device is assigned an IP address through DHCP. If the device cannot connect to ecOpen, access the device's web interface through one of the device's RJ-45 ports to make configuration changes (for example, to change from DHCP to a static IP). See section "Connecting to the Web Interface".

## Connecting to the Web Interface



Note that you can only connect to the device's web interface when the device is not connected to the Internet. Follow these steps to connect to the device's web interface through a network connection to one of the device's RJ-45 ports.

1. Connect a PC directly to one of the device's RJ-45 ports.
2. Set the PC IP address to be on the same subnet as the device RJ-45 port default IP address. (The PC address must start 192.168.2.x with subnet mask 255.255.255.0.)
3. Enter the device's default IP address of 192.168.2.10 into the web browser address bar.
4. Log in to the web interface using the default user name "root" and password "openwifi".

**Note:** The TIP OpenWiFi SDK default URL of the DigiCert certificate is set to ecOpen: (<https://cloud.openwifi.ignitenet.com>). If you want to register the device to your own TIP OpenWiFi SDK, contact [oxherd@edge-core.com](mailto:oxherd@edge-core.com) to change the default URL.

## Hardware Specifications

### Device Chassis

Size (W x D x H)

- ECS2100-10T TIP: 19.64 x 11.71 x 3.66 cm (7.73 x 4.61 x 1.44 in.)
- ECS2100-10P TIP: 33.0 x 20.4 x 4.26 cm (12.99 x 8.03 x 1.67 in.)
- ECS2100-10PE TIP: 24.0 x 15.5 x 2.65 cm (9.44 x 6.10 x 1.04 in.)
- ECS2100-28T TIP/28P/28PP/52T: 44 x 22 x 4.4 cm (17.32 x 8.66 x 1.73 in.)

### Weight

- ECS2100-10T TIP: 816 g (1.8 lb)
- ECS2100-10P TIP: 2.4 kg (5.34 lb)
- ECS2100-10PE TIP: 973 g (2.15 lb)
- ECS2100-28T TIP: 2.2 kg (4.86 lb)
- ECS2100-28P TIP: 2.8 kg (6.18 lb)
- ECS2100-28PP TIP: 3.1 kg (6.85 lb)
- ECS2100-52T TIP: 2.5 kg (5.5 lb)

### Temperature

- Operating: 0°C – 50°C (32°F – 122°F)
- Operating: 0°C – 45°C (32°F – 113°F, ECS2100-28PP TIP only)
- Operating: 0°C – 40°C (32°F – 104°F, ECS2100-10P TIP and ECS2100-28PP TIP with one EPS460W only)
- Storage: -40°C – 70°C (-40°F – 158°F)

**Humidity Operating:** 10% – 90% (non-condensing)

## Power Specification

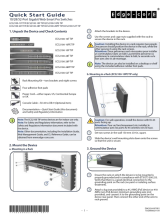
AC Input Power	ECS2100-10T TIP: AC 100-240 V, 50-60 Hz, 0.5 A ECS2100-10P TIP: AC 100-240 V, 50-60 Hz, 2.1 A ECS2100-28T TIP: AC 100-240 V, 50-60 Hz, 0.5 A (Not for China), AC 100-240 V, 50/60 Hz, 0.5 A ECS2100-28P TIP: AC 100-240 V, 50-60 Hz, 3.2 A ECS2100-28PP TIP: AC 100-240 V, 50-60 Hz, 5.8 A ECS2100-52T TIP: AC 100-240 V, 50/60 Hz, 1 A
AC-DC Power Adapter (ECS2100-10PE TIP only)	Input: AC 100-240 V, 50-60 Hz, 1 A Output: 54 VDC, 1.67A
Total Power Consumption	ECS2100-10T TIP: 8 W ECS2100-10P TIP: 160 W ECS2100-10PE TIP: 80 W ECS2100-28T TIP: 20 W ECS2100-28P TIP: 260 W ECS2100-28PP TIP: 490 W ECS2100-28PP TIP+ one extended power supply: 950 W ECS2100-52T TIP: 40 W

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## Regulatory Compliances

Emissions	CE Mark ◆ EN 55032 Class A EN IEC 61000-3-2 Class A EN 61000-3-3 FCC Class A CCC GB 9254-2008 Class A BSMI CNS 15936, Class A
Immunity	EN 55035 IEC 61000-4-2/3/4/5/6/11
Safety	UL/CUL (UL 62368-1, 2nd Ed & CAN/CSA C22.2 No. 62368-1-14, 2nd Edition) CB (IEC/EN 62368-1) BSMI CNS15598-1

## Documents / Resources

	<a href="#">Edge-core ECS2100 Series 52-Port Gigabit Web-Smart Pro Switches</a> [pdf] User Guide ECS2100-10T TIP, ECS2100-10P TIP, ECS2100-10PE TIP, ECS2100-28T TIP, ECS2100-28P T IP, ECS2100-28PP TIP, ECS2100-52T TIP, ECS2100 Series 52-Port Gigabit Web-Smart Pro Sw itches, ECS2100 Series, 52-Port Gigabit Web-Smart Pro Switches, Gigabit Web-Smart Pro Swit ches, Smart Pro Switches, Switches
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## References

-  [ecOpen Controller](#)
-  [ecOpen Controller](#)
-  [CoreComm | Internet & Web Hosting Solutions](#)
-  [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.](#)
-  [ecOpen Controller](#)
-  [ecOpen Controller](#)
- [User Manual](#)

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