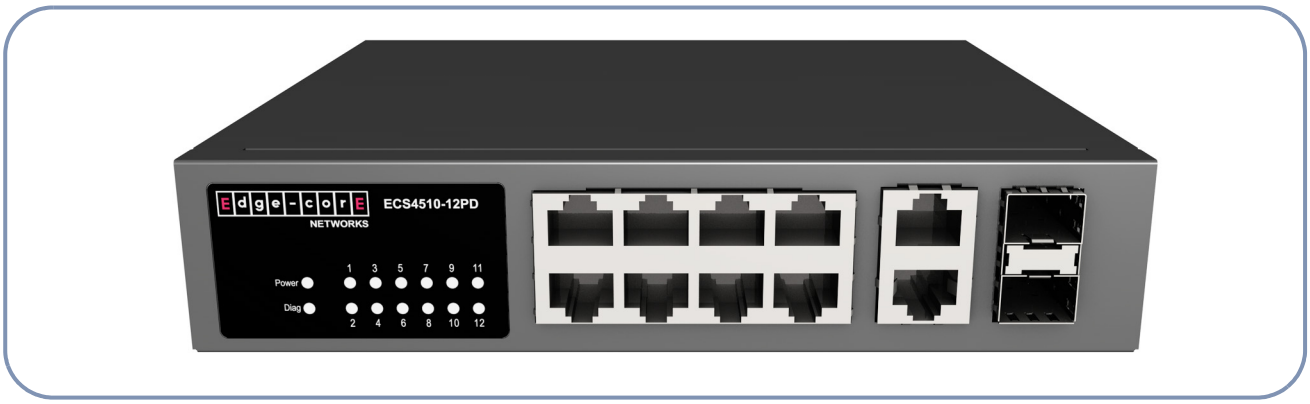
Quick Start Guide

L2 Gigabit Ethernet Switch

ECS4510-12PD

The ECS4510-12PD is a high-performance enterprise Layer 2 switch that provides ten 10/100BASE-T RJ-45 ports and two Gigabit Small Form Factor Pluggable (SFP) slots that support 1000BASE-SX and 1000BASE-LX transceivers. RJ-45 ports 1 to 8 on the switch are 802.3at PoE PD ports, and RJ-45 port 10 is an 802.3af PoE PSE port.



Note: For detailed switch installation information, refer to the *Installation Guide*, which is on the Documentation CD included with the switch.

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

Warning For Indoor use only: The switch and all connected cables are not designed for outdoor use.

The switch is designed to be installed in a standard 19-inch equipment rack. However, you can also install the switch on any flat surface, such as a desktop.

Follow the steps in this guide to install the switch in your network.

1. Unpack the Switch

Unpack the switch and check the package contents.

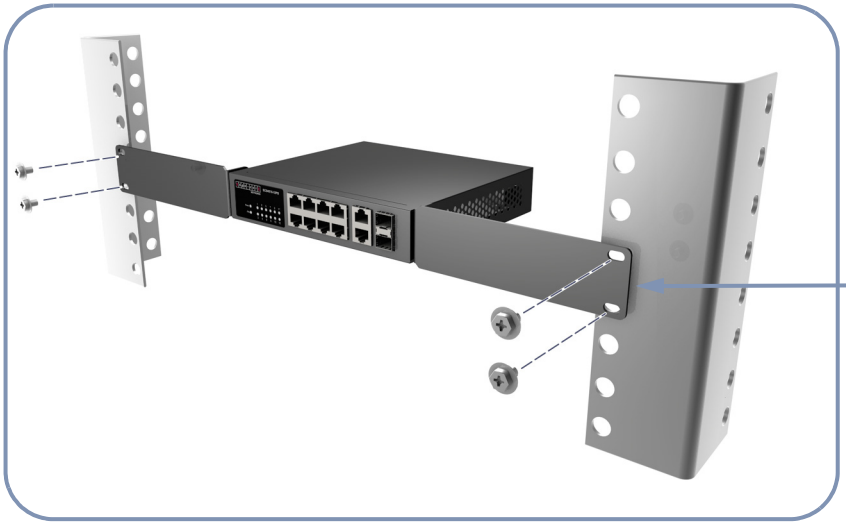
- ECS4510-12PD L2 Gigabit Ethernet Switch
- Rack Mounting Kit containing two brackets and eight screws for attaching the brackets to the switch
- Four adhesive foot pads
- 3 Pin 5.08 mm pitch DC Terminal Block/Power Plug—Dinkle Cat. No. 2ESDV-03P

- Console cable (RJ-45 to DB-9)
- *Quick Start Guide* (this document)
- Regulatory and Safety Information
- Documentation CD — includes *Installation Guide* and *Management Guide*

2. Install the Switch

The switch can be mounted in a standard 19-inch rack or on a desktop or shelf.

Rack Mounting—Following your rack plan, mark the holes in the rack where the switch will be installed. Lift the switch into the rack so that it is aligned with the marked holes. With the switch brackets aligned in the proper position, secure the switch in the rack, using four rack-mounting screws (not provided).



Desktop or Shelf Mounting—Attach the four adhesive feet to the bottom of the switch, then set the device on a desktop, shelf, or other flat surface.

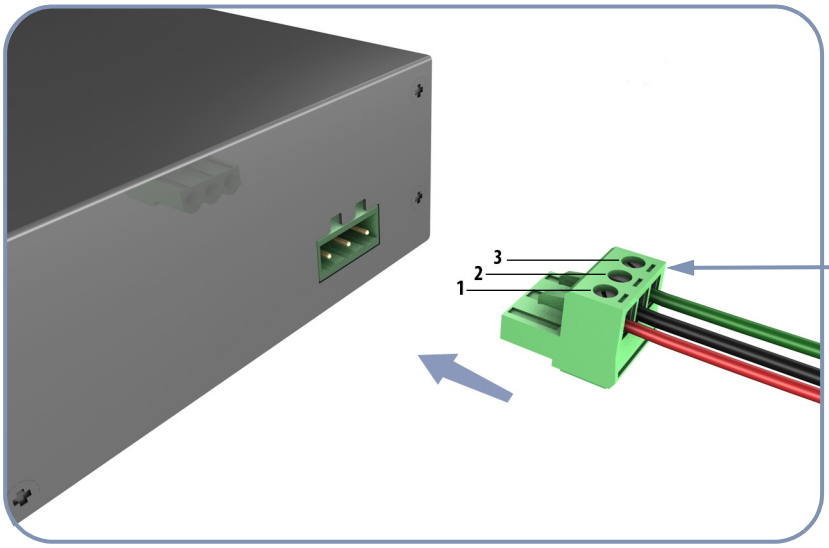
3. Connect Power

The ECS4510-12PD can be powered by either:

- PoE power from a PSE device connected to any of Ethernet ports 1 to 8
- From an external DC 48 VDC supply using the supplied 3-pin terminal block plug.

To connect external DC power, connect the terminal block plug to a 48 VDC, 0.65 A power supply using AWG 20/22 DC wiring as shown in the table and figure below.

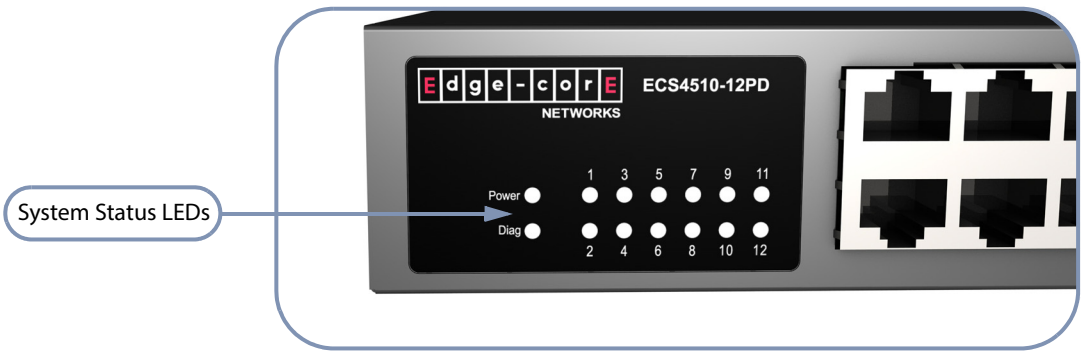
Plug Pin Number	Description
1	DC + Positive
2	DC - Negative
3	Ground



4. Verify Switch Operation

Verify basic switch operation by checking the system LEDs.

When operating normally, the Power and Diag LEDs should be on green.

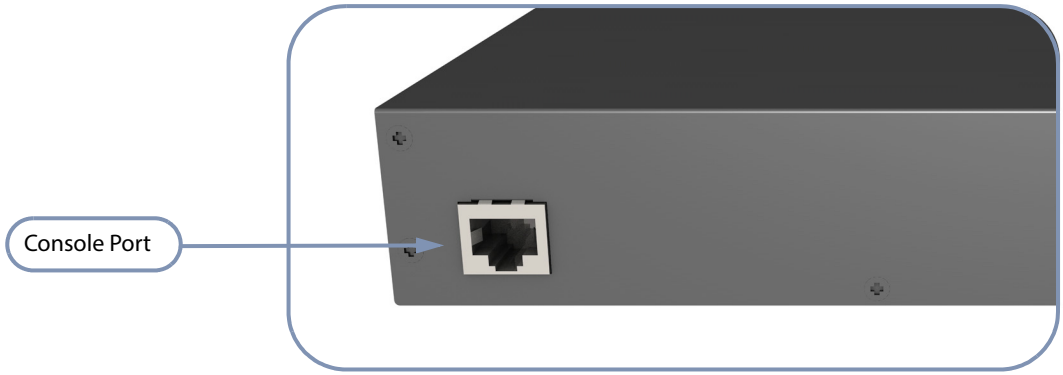


5. Make Initial Configuration Changes

At this point you may need to make a few basic switch configuration changes before connecting to the network. It is suggested to connect to the switch console port to perform this task.

The serial port's configuration requirements are as follows: 115200 bps, 8 characters, no parity, one stop bit, 8 data bits, and no flow control.

You can log in to the command-line interface (CLI) using default settings: User name "admin" with password "admin."

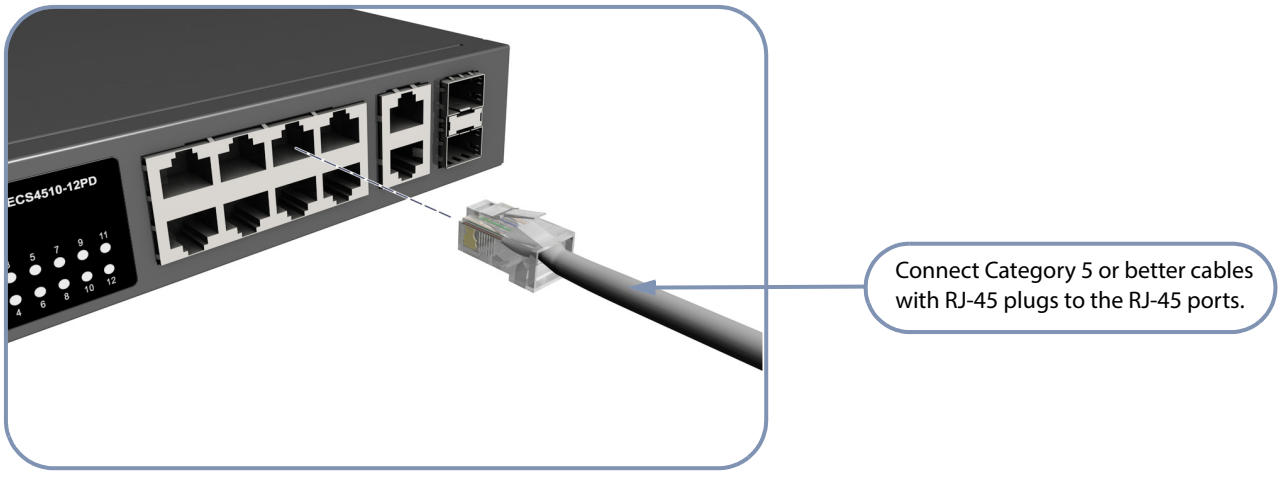


For information on initial switch configuration, refer to the *Management Guide*, which is on the Documentation CD included with the switch.

6. Connect Network Cables

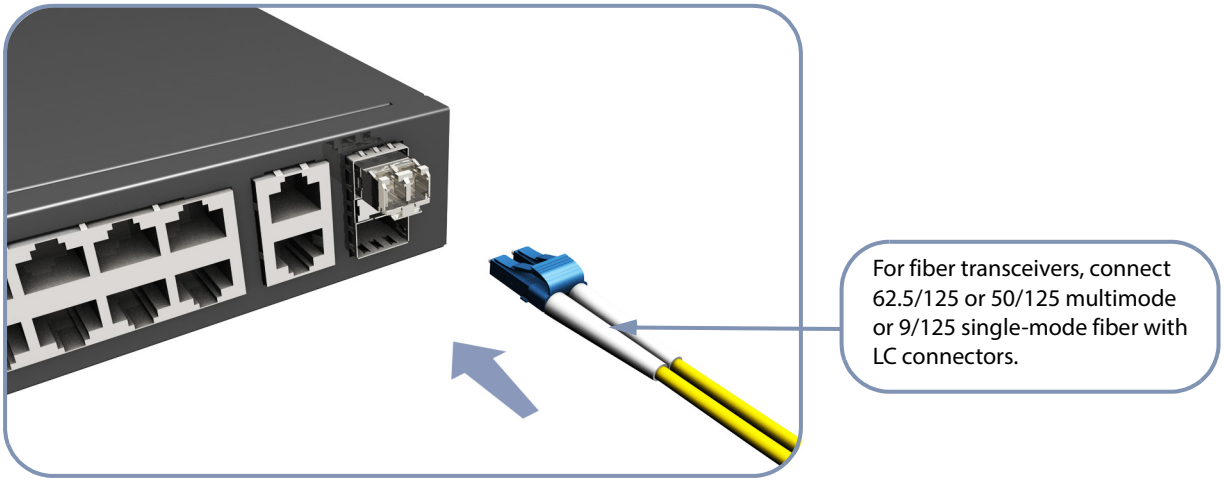
Connect network cables to port interfaces:

- For the RJ-45 ports, use 100-ohm Category 5, 5e or better cable for 1000BASE-T connections, or Category 5 or better for 100BASE-TX connections.



- For the SFP slots, first install SFP transceivers and then connect cabling to the transceiver ports.

The SFP slots support the following transceiver types: 1000BASE-SX and 1000BASE-LX.



As connections are made, check the port status LEDs to be sure the links are valid.

Note: For further switch configuration information, refer to the *Management Guide*, which is on the Documentation CD included with the switch.

Hardware Specifications

Item	Specification
Chassis Specifications	
SIze (W x D x H)	18.00 x 16.50 x 3.75 cm (7.09 x 6.50 x 1.48 in)
Weight	0.665 kg (1.47 lb)
Temperature	Operating: 0° C to 50° C (32° F to 122° F) Storage: -40° C to 70° C (-40° F to 158° F)
Humidity	Operating: 10% to 90% (non-condensing)
Power Specifications	
DC Input	DC 48 V 0.65 A
Maximum Power Consumption	PoE PSE disabled: 15 W PoE PSE enabled: 30.4 W
Regulatory Compliances	
Emissions	EN55022 (CISPR 22) Class A EN 61000-3-2/3 FCC Class A CE Mark
Immunity	EN 61000-4-2/3/4/5/6/8/11
Safety	cTUVus (CSA 22.2 NO 60950-1 & UL 60950-1) CB (IEC/EN60950-1)