

# Quick Start Guide

## L2+/L3 LITE GIGABIT ETHERNET (POE) SWITCH

ECS4150-28T | ECS4150-28P | ECS4150-54T | ECS4150-54P



www.edge-core.com

### Package Contents



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1. L2+/L3 Lite Gigabit Ethernet (PoE) Switch
2. Rack mounting kit—2 brackets and 6 or 8 screws
3. Power cord
4. Console cable—RJ-45 to DE-9

5. Four adhesive rubber feet (28-port switches only)
6. Grounding wire
7. Four or six port dust covers
8. Documentation—*Quick Start Guide* (this document) and *Safety and Regulatory Information*

### Overview



ECS4150-28T



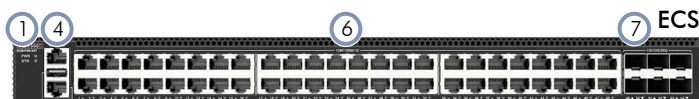
ECS4150-28P



ECS4150-54T



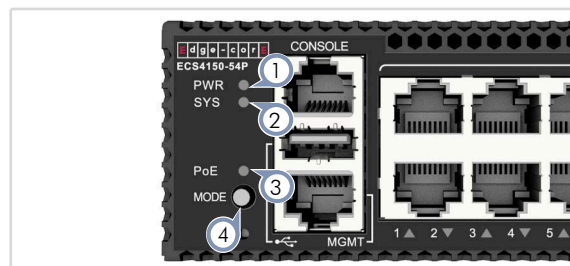
ECS4150-54P



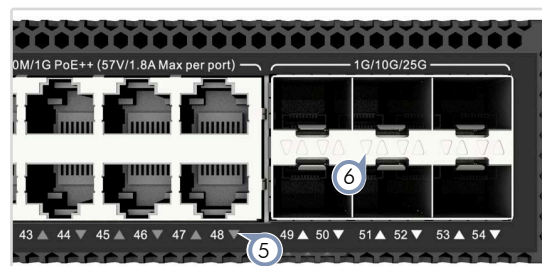
1. System LEDs
2. 24 x 10/100/1000M RJ-45 ports
3. 4 x 1/10G SFP+ ports
4. Management port, Console port, and USB port
5. 24 x 10/100/1000M RJ-45 PoE ports
6. 48 x 10/100/1000M RJ-45 ports

7. 6 x 1/10/25G SFP28 ports
8. 40 x 10/100/1000M RJ-45 PoE+ (IEEE 802.3at) ports
9. 8 x 10/100/1000M RJ-45 PoE++ (IEEE 802.3bt) ports
10. PoE LED and Mode button
11. Ground screw
12. AC power socket

### System/Port LEDs & Buttons



1. **PWR:** Green (OK)
2. **SYS:** Green (OK), Blinking Green (booting)
3. **PoE:** Green (OK)
4. **Mode Button:** Port LED PoE status on/off



5. **RJ-45 1 G Ports:** Green/Blinking (link/activity)
6. **SFP+/SFP28 Ports:** Green/Blinking (link/activity)



## Installation



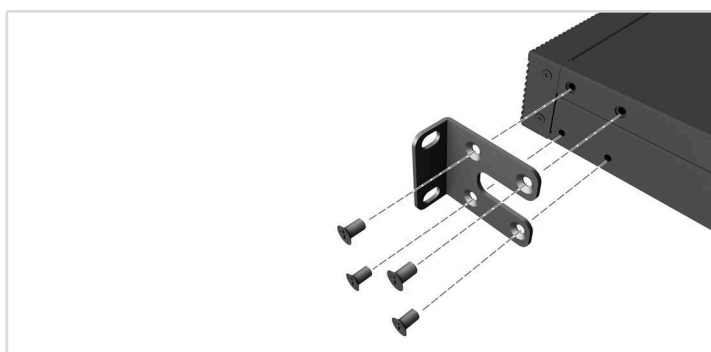
**Warning:** For a safe and reliable installation, use only the accessories and screws provided with the device. Use of other accessories and screws could result in damage to the unit. Any damages incurred by using unapproved accessories are not covered by the warranty.

**Avertissement:** Pour une installation sûre et fiable, utilisez uniquement les accessoires et les vis fournies avec l'appareil. L'utilisation d'autres accessoires et vis pourrait endommager l'appareil. Les dommages causés par l'utilisation d'accessoires non approuvés ne sont pas couverts par la garantie.



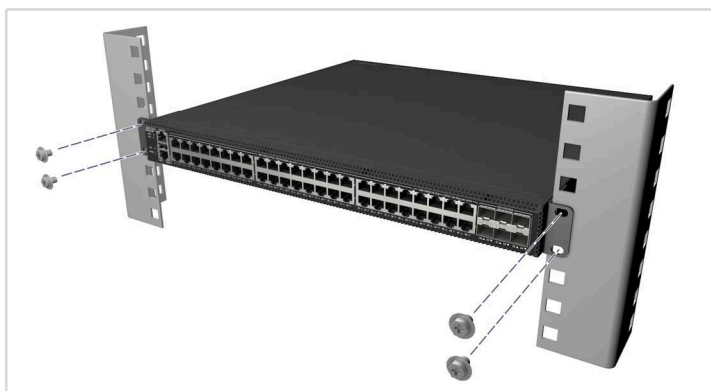
**Note:** The drawings in this document are for illustration only and may not match your particular model.

### 1 Mount the Device



#### 1. Attach the Brackets

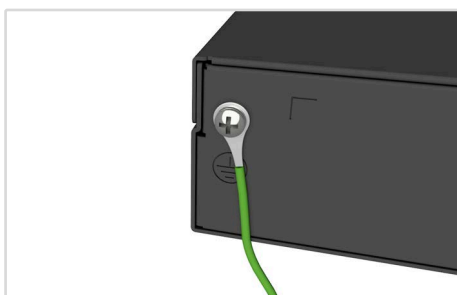
Use the included flathead M4x8 screws to attach the brackets.



#### 2. Mount the Device

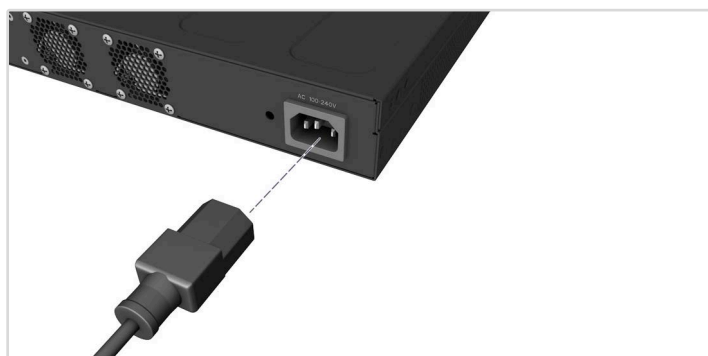
Mount the device in the rack and secure it with rack screws.

### 2 Ground the Device



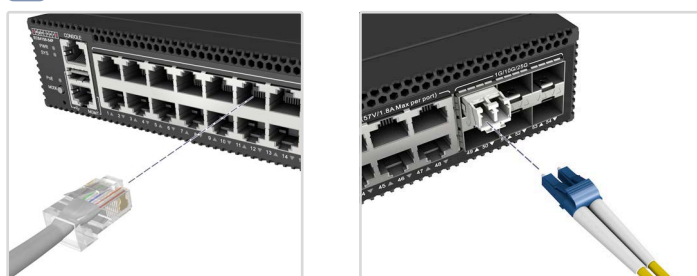
Connect the included grounding wire to the grounding point on the rear panel. Then connect the other end of the wire to rack ground.

### 3 Connect Power



Connect an AC power source to the device.

### 4 Make Network Connections



#### RJ-45 PoE Ports

Connect Cat. 5e or better twisted-pair cable.

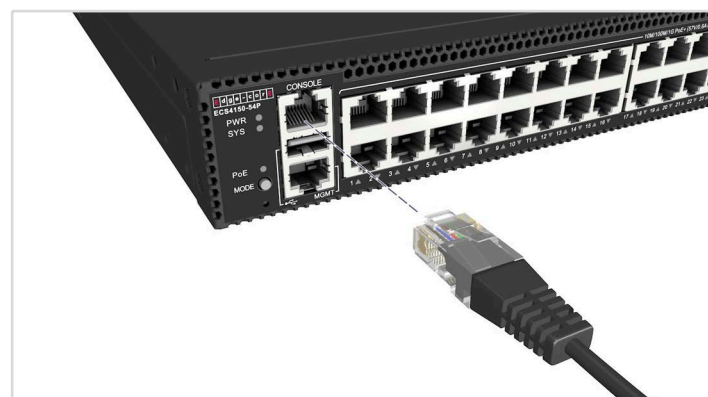
#### SFP+/SFP28 Ports

Install transceivers and then connect fiber optic cabling to the transceiver ports. The following transceivers are supported:

- 1000BASE-SX/LX/EX/ZX and 1000BASE-T (RJ-45)
- 10GBASE-SR/LR
- 25GBASE-SR/LR

Alternatively, connect DAC or AOC cables directly to the port slots.

### 5 Make Management Connections



#### RJ-45 Console Port

Connect the included console cable and then configure the serial connection: 115200 bps, 8 characters, no parity, one stop bit, 8 data bits, and no flow control.

#### USB Port

The USB 2.0 port allows you to copy a runtime or configuration file to/from a USB memory stick. (The USB port only supports a simple data storage device using a FAT16/32 file system with or without a partition table.)

## Hardware Specifications

|                   |                                                                                                                                                                                                                |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Size (WxDxH)      | ECS4150-28T:<br>442 x 220 x 43.6 mm (17.4 x 8.66 x 1.72 in.)<br>ECS4150-28P:<br>442 x 280 x 43.6 mm (17.4 x 11.02 x 1.72 in.)<br>ECS4150-54T and ECS4150-54P:<br>442 x 420 x 43.6 mm (17.4 x 16.54 x 1.72 in.) |
| Weight            | ECS4150-28T: 3.05 kg (6.72 lb)<br>ECS4150-28P: 4.75 kg (10.47 lb)<br>ECS4150-54T: 4.7 kg (10.36 lb)<br>ECS4150-54P: 5.5 kg (12.13 lb)                                                                          |
| Temperature       | Operating: -5° C to 45° C (23° F to 113° F)<br>Storage: -40° C to 70° C (-40° F to 158° F)                                                                                                                     |
| Humidity          | Operating: 5% to 95% (non-condensing)                                                                                                                                                                          |
| Altitude          | Operating: 2000 m (6562 ft)                                                                                                                                                                                    |
| Power Consumption | ECS4150-28T: 25 Watts maximum<br>ECS4150-28P: 450 Watts maximum<br>ECS4150-54T: 52 Watts maximum<br>ECS4150-54P: 835 Watts maximum                                                                             |
| PoE Budget        | ECS4150-28P: 370 Watts in total, 57V max/0.6A max per port<br>ECS4150-54P: 740 Watts                                                                                                                           |
| AC Input          | ECS4150-28T: 100-240 VAC, 50/60Hz, 1 A<br>ECS4150-28P: 100-240 VAC, 50/60Hz, 6.5 A<br>ECS4150-54T: 100-240 VAC, 50/60Hz, 2 A<br>ECS4150-54P: 100-240 VAC, 50/60Hz, 10 A                                        |

## Regulatory Compliances

|             |                                                                                                                                                      |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Emissions   | EN 55032:2015/A1:2020<br>EN IEC 61000-3-2:2019/A1:2021<br>EN 61000-3-3:2013/A2:2021<br>FCC Class A<br>VCCI-CISPR 32:2016 Class A<br>BSMI (CNS 15936) |
| Immunity    | IEC 61000-4-2/3/4/5/6/8/11<br>EN 55035:2017/A11:2020                                                                                                 |
| Safety      | UL (CSA 22.2 No 62368-1 & UL62368-1)<br>CB (IEC/EN 62368-1)<br>BSMI (CNS 15598-1)                                                                    |
| Taiwan RoHS | CNS 15663                                                                                                                                            |

## Warranty Information and Technical Support

Registering your product enables you to receive a more efficient warranty service. Be sure to register at [www.edge-core.com](http://www.edge-core.com).

# 快速入門指南

## L2+/L3 LITE GE 乙太網路 (PoE) 交換器

ECS4150-28T | ECS4150-28P | ECS4150-54T | ECS4150-54P



www.edge-core.com

### 包裝內容物



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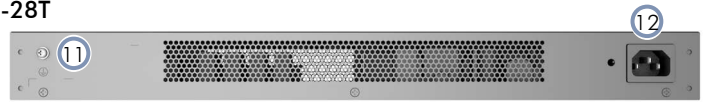
1. L2+/L3 Lite Gigabit 乙太網路 (PoE) 交換器
2. 機櫃安裝套件 — 2 個托架和 8 個螺絲
3. 電源線
4. 主控台纜線 — RJ-45 到 DE-9

5. 四個黏性橡膠腳墊 (28-port switches only)
6. 接地線
7. 六個連接埠防塵蓋
8. 文件 - 快速入門指南 (本文件) 及安全及法規資訊

### 簡介



ECS4150-28T



ECS4150-28P



ECS4150-54T



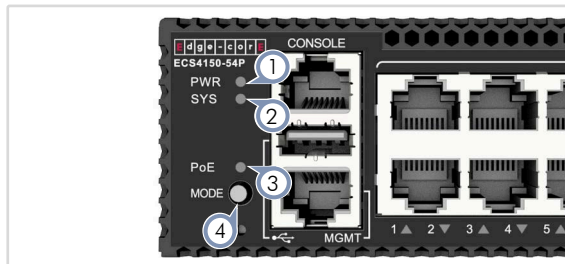
ECS4150-54P



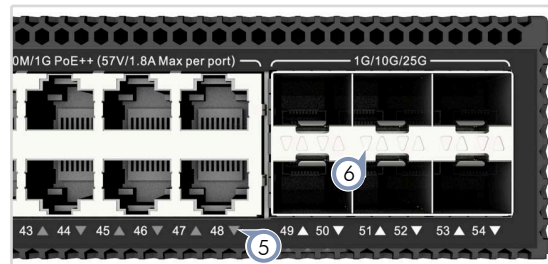
1. 系統LED
2. 24 x 10/100/1000M RJ-45 連接埠
3. 4 x 1/10G SFP+ 連接埠
4. 管理連接埠、主控台連接埠及 USB 連接埠
5. 24 x 10/100/1000M RJ-45 PoE 連接埠
6. 48 x 10/100/1000M RJ-45 連接埠

7. 6 x 1/10/25G SFP28 連接埠
8. 40 x 10/100/1000M RJ-45 PoE+ (IEEE 802.3at) 連接埠
9. 8 x 10/100/1000M RJ-45 PoE++ (IEEE 802.3bt) 連接埠
10. PoE LED 和模式按鈕
11. 接地螺絲
12. AC 電源插孔

### 系統/連接埠 LED 及按鈕



1. PWR：綠燈 (OK)
2. SYS：綠燈 (OK)、閃爍綠燈 (開機)
3. PoE：綠燈 (OK)
4. 模式按鈕：連接埠 LED PoE 狀態開啟 / 關閉



5. RJ-45 1G 連接埠：綠燈 / 閃爍 (連結 / 活動)
6. SFP+/SFP28 連接埠：綠燈 / 閃爍 (連結 / 活動)



## 安裝

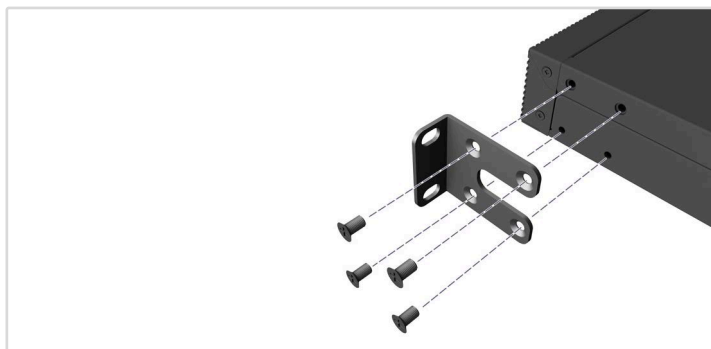


**警告：**為確保安全且可靠的安裝，請使用裝置隨附的配件與螺絲。使用其他來源的配件與螺絲可能導致配件損壞。使用未經許可配件所造成之損壞，不在保固範圍內。



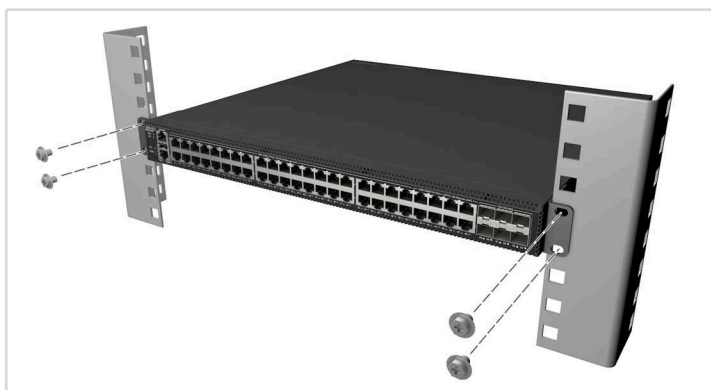
**注釋：**本文件中的示意圖僅供參考，可能與特定型號有所差異。

## 1 安裝裝置



## 1. 安裝托架

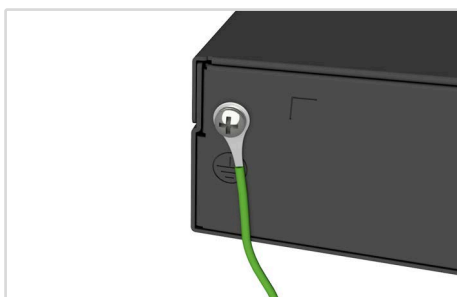
使用內附的平頭 M4x8 螺絲安裝托架。



## 2. 安裝裝置

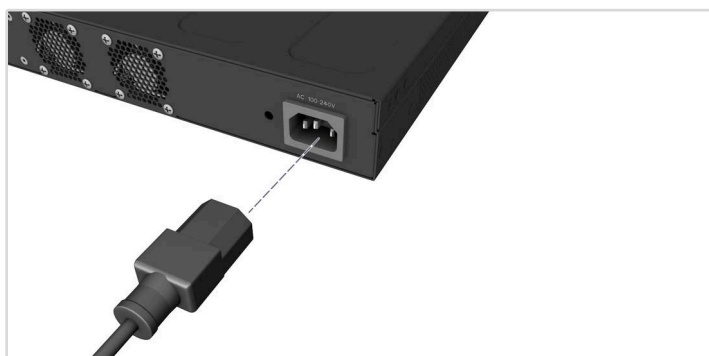
將裝置裝到機櫃中並用機櫃螺絲固定。

## 2 將裝置接地



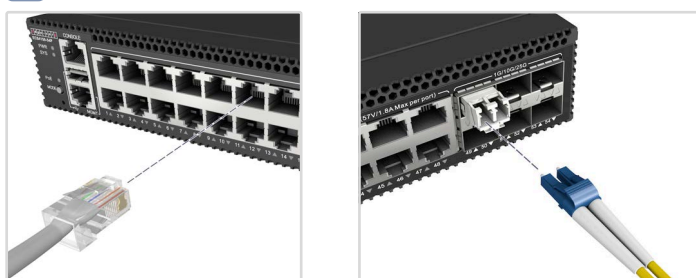
將隨附接地線連接後面板的接地點。接下來，將接地線另一端連接至機櫃接地。

## 3 連接電源



將 AC 電源連接至裝置。

## 4 進行網路連線



## RJ-45 PoE 連接埠

連接纜線 5e 類或以上的雙絞線。

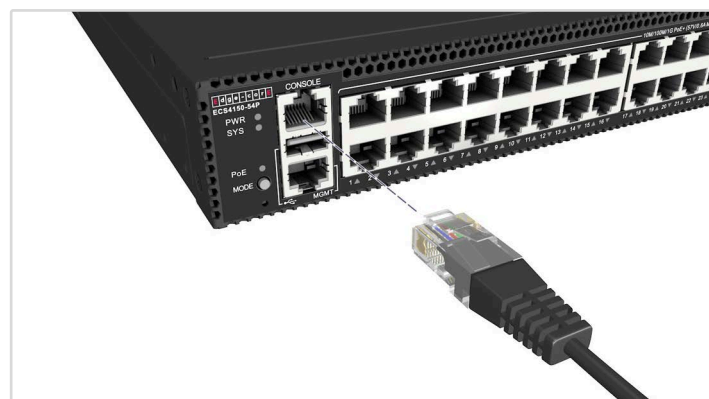
## SFP28 連接埠

安裝收發器，然後將光纖電纜連接至收發器連接埠。支援以下收發器：

- 1000BASE-SX/LX/EX/ZX 1000BASE-T (RJ-45)
- 10GBASE-SR/LR
- 25GBASE-SR/LR

或可將 DAC 或 AOC 電纜直接連接至 SFP28 插槽。

## 5 進行管理連接



## RJ-45 控制埠

連接隨附的控制線，接著配置串列連接：115200 bps、8 個字元、無奇偶（檢驗碼）、1 個停止位元、8 個資料位元，並且無流量控制。

## USB 連接埠

USB 2.0 連接埠可讓您複製執行階段或組態檔案至 / 自 USB 隨身碟。(USB 連接埠僅支援使用含或不合磁碟分割表格的 FAT16/32 檔案系統的簡易資料儲存裝置。)

## 硬體規格

|                |                                                                                                                                                                                                                |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 尺寸 (寬 x 深 x 高) | ECS4150-28T:<br>442 x 220 x 43.6 mm (17.4 x 8.66 x 1.72 in.)<br>ECS4150-28P:<br>442 x 280 x 43.6 mm (17.4 x 11.02 x 1.72 in.)<br>ECS4150-54T and ECS4150-54P:<br>442 x 420 x 43.6 mm (17.4 x 16.54 x 1.72 in.) |
| 重量             | ECS4150-28T: 3.05 kg (6.72 lb)<br>ECS4150-28P: 4.75 kg (10.47 lb)<br>ECS4150-54T: 4.7 kg (10.36 lb)<br>ECS4150-54P: 5.5 kg (12.13 lb)                                                                          |
| 溫度             | 操作: -5° C 至 45° C (23° F 至 113° F)<br>儲存: -40° C 至 70° C ( -40° F 至 158° F )                                                                                                                                   |
| 濕度             | 操作: 5% 至 95% ( 無冷凝 )                                                                                                                                                                                           |
| 海拔             | 操作: 2000 m (6562 ft)                                                                                                                                                                                           |
| 耗電量            | ECS4150-28T: 最大 25 瓦<br>ECS4150-28P: 最大 450 瓦<br>ECS4150-54T: 最大 52 瓦<br>ECS4150-54P: 最大 835 瓦                                                                                                                 |
| PoE 預算         | ECS4150-28P: 總功率 370 瓦 · 每個端口最大 57V/<br>0.6A<br>ECS4150-54P: 740 瓦                                                                                                                                             |
| AC 輸入          | ECS4150-28T: 100-240 VAC, 50/60Hz, 1 A<br>ECS4150-28P: 100-240 VAC, 50/60Hz, 6.5 A<br>ECS4150-54T: 100-240 VAC · 50/60Hz · 2 A<br>ECS4150-54P: 100-240 VAC · 50/60Hz · 10 A                                    |

## 符合法規

|         |                                                                                                                                                      |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 輻射      | EN 55032:2015/A1:2020<br>EN IEC 61000-3-2:2019/A1:2021<br>EN 61000-3-3:2013/A2:2021<br>FCC Class A<br>VCCI-CISPR 32:2016 Class A<br>BSMI (CNS 15936) |
| 電磁耐受性   | IEC 61000-4-2/3/4/5/6/8/11<br>EN 55035:2017/A11:2020                                                                                                 |
| 安全性     | UL (CSA 22.2 No 62368-1 & UL62368-1)<br>CB (IEC/EN 62368-1)<br>BSMI (CNS 15598-1)                                                                    |
| 臺灣 RoHS | CNS 15663                                                                                                                                            |