

**Single-Port 10/100/1000Mbps  
Ultra PoE Splitter (12V/19V/24V)  
POE-172S**

User's Manual

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## **FCC Interference Statement**

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide

reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the Instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

### **CE Mark Warning**

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

### **WEEE Warning**



To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste; WEEE should be collected separately.

### **Revision**

For Model: POE-172S

Revision: 1.0 (Aug., 2017)

Part No: EM-POE-172S\_v1.0 (2350-AF0600-000)



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## 1. Package Contents

Thank you for purchasing PLANET POE-172S Single-Port 10/100/1000Mbps Ultra PoE Splitter.

Model	LAN Port Speed	PoE Standard	DC Out
POE-172S	10/100/1000Mbps	IEEE 802.3at/ af/bt	12V/19V/24V

Please unpack the box of the POE-172S carefully, and the box should contain the following items:

ultra PoE splitter	User's manual
	
DC plug cable	15cm RJ45 cable
	

If any of these are missing or damaged, please contact your dealer immediately; if possible, retain the carton including the original packing material, and use them again to repack the product in case there is a need to return it to us for repair.

## 2. Product Features

### ■ Interface

- ◆ 2 RJ45 interfaces
  - 1-port **data + power** input
  - 1-port **data output**
- ◆ 1-port DC plug-in
- ◆ 1 DC 12V/19V/24V DIP switch

### ■ Power over Ethernet

- ◆ Complies with ultra Power over Ethernet end-span/mid-span PSE
- ◆ Compatible with IEEE 802.3at/802.3bt PoE
- ◆ Splits the PoE power over RJ45 Ethernet cable into DC 12V/19V/24V output
- ◆ Distance up to 100 meters

### ■ Hardware

- ◆ Metal case
- ◆ LED indicators for Power LED and PoE-in-use LED



#### Note

**PSE (Power Sourcing Equipment)** is a device (switch, or injector for instance) that provides power in a PoE setup. Maximum allowed continuous output power per such device in IEEE 802.3af is 15.4W, and in IEEE 802.3at is 30W.

**PD (Powered Device)**, a PoE-enabled terminal like IP phone, IP camera or wireless access point, is powered by a PSE.

### 3. Product Specifications

Product		POE-172S
Hardware Specifications		
Interface	Ethernet	1 x RJ45 STP, Ethernet data output port
	PoE in	1 x RJ45 STP, PoE power input port
	Power socket	1 x DC plug-in
Network Cable	Ultra PoE (60W+)	4-pair UTP Cat. 5, 5e, 6, up to 100m (328ft)
	802.3af/at PoE (15W/30W)	2-pair UTP Cat. 3, 4, 5, up to 100m (328ft)
LED Indicator		System: Power x 1 (Green) PoE-in-use x 2 (Green)
Data Rate		10/100/1000Mbps
Dimensions (W x D x H)		94 x 70.3 x 26.2 mm
Weight		300g
Unit Output Current (at 56VDC Input)		<b>75-watt PoE input</b> <ul style="list-style-type: none"> <li>■ 5A@12V DC</li> <li>■ 3.15A@19V DC</li> <li>■ 2.5A@24V DC</li> </ul>
Power Consumption		<ul style="list-style-type: none"> <li>■ Ethernet full loading without DC output: 3.7 watts</li> <li>■ Full loading with maximum 12V DC, 5A output: 75 watts</li> </ul>
Operating Temperature		0 ~ 50 degrees C
Storage Temperature		-10 ~ 70 degrees C

Operating Humidity	5 ~ 90%, non-condensing
Storage Humidity	5 ~ 90%, non-condensing
Power over Ethernet	
PoE Standard	802.3bt Type 3/Type 4 Power over Ethernet, 4-pair 802.3at PoE+ and Cisco UPOE compliant with voltage within 50V-56V DC
Power Output	DC 12V/19V/24V by DIP switch control
DC Plug Connectors (Diameter)	2 external female plug cables: <ul style="list-style-type: none"> <li>■ 5.5/2.5mm to 5.5/2.5mm</li> <li>■ 5.5/2.5mm to 5.5/2.1mm</li> </ul>
PoE Power Supply Type	end-span + mid-span end-span mid-span
Power Pin Assignment	1/2 (+), 3/6 (-); 4/5 (+), 7/8 (-) or 1/2 (-), 3/6 (+); 4/5 (+), 7/8 (-)
Standards Conformance	
Standards Compliance	IEEE 802.3 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3at Power over Ethernet Plus IEEE 802.3af Power over Ethernet
Regulatory Compliance	FCC Part 15 Class A, CE



## 4. Hardware Introduction

### 4.1 Product Outlook

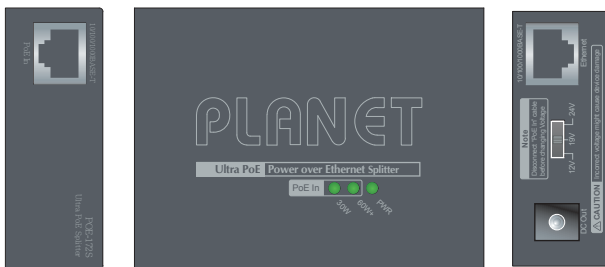


Figure 1: POE-172S Outlook

### 4.2 LED Indicators

LED	Color	Function
PWR	Green	Lights to indicate the ultra PoE splitter has power.
30W	Green	Lights to indicate the ultra PoE splitter is connecting to 2-pair/30W PoE power source.
60W+	Green	Lights to indicate the ultra PoE splitter is connecting to 4-pair/ultra PoE power source.

## 5. Hardware Installation

The following section describes the hardware features of POE-172S. Before connecting any network device to them, please read this chapter carefully.

Please refer to the following sections for detailed information about POE-172S.

### 5.1 Before Installation

Before installation, it is recommended to check your network environment. If there is difficulty in finding a power socket for AC-DC adapter of your non-PoE IEEE 802.3at networked device, the POE-172S provides you with a way out to supply DC power to this Ethernet device conveniently and easily.



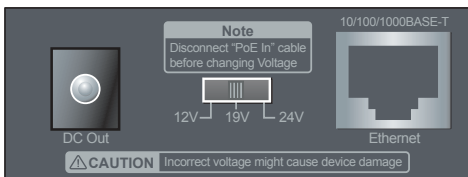
1. Please ensure the output voltage is correct for remote device. Otherwise, it will damage your remote device.
2. Don't switch to the DC mode during operation. Otherwise, it will damage your POE-172S and remote device. If you want to change to the DC mode, please plug out the "POE In" cable and wait for 5 seconds until the PWR LED is completely off.

### 5-2. The POE-172S Installation



Please turn off the POE-172S before you switch to the DC output mode.

1. Select the right DC power output and connect DC plug from **"DC OUT"** of the POE-172S to remote device.



2. Connect standard UTP cable from **"Ethernet"** port of the POE-172S to remote device.
3. Connect standard UTP cable from **"PoE In"** port of the POE-172S to PoE switch/injector.



4. Power on the PoE switch/injector to enable the POE-172S and remote device to be powered.



Note

Please ensure the POE-172S output voltage is correct before applying power to remote device. The POE-172S provides DC12V/19V/24V power output.

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## **6. Customer Support**

Thank you for purchasing PLANET products. You can browse our online FAQ resource at the PLANET Web site first to check if it could solve your issue. If you need more support information, please contact PLANET switch support team.

PLANET online FAQ :

<http://www.planet.com.tw/en/support/faq.php?type=2>

Switch support team mail address:

[support@planet.com.tw](mailto:support@planet.com.tw)