

1. Package Content

Thank you for purchasing PLANET IEEE 802.3at High Power over Ethernet Splitter, POE-162S. Terms of "802.3at PoE Splitter" in following section of this User's Manual means the POE-162S.

Upon open the box of the IEEE 802.3at High Power over Ethernet Splitter and carefully unpack it. The box should contain the following items:

POE-162S:

- The IEEE 802.3at Gigabit High Power over Ethernet Splitter x 1
- User's Manual x 1
- 15cm UTP Straight Network Cable x 1
- DC Plug Cable x 2 (Inside Diameter 2.5mm and 2mm)

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 against to repack the product in case there is a need to return it to us for repair.

Hardware

- ◆ Plastic case
- ◆ 12V / 24V DIP switch
- ◆ LED indicators power input indication

Standard Compliance

- ◆ IEEE 802.3 10Base-T
- ◆ IEEE 802.3u 100Base-TX
- ◆ IEEE 802.3ab 1000Base-T
- ◆ IEEE 802.3at Power over Ethernet
- ◆ FCC Part 15 Class A, CE



PSE (Power Sourcing Equipment) is a device (switch, or hub for instance) that will provide 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 25W.

PD (Powered Device) is a PoE-enabled terminal by PSE and thus consumes energy, such as IP Phones, network cameras and Wireless access points and etc.

Power over Ethernet	
PoE Standard	IEEE 802.3at High Power over Ethernet
Number of device can be powered	1
Power Output	12V / 24V DC, Max 2A (adjustable)
DC Plug connectors (Diameter)	2 external female plug cables: 5.5 / 2.5mm to 5.5 / 2.5mm 5.5 / 2.5mm to 5.5 / 2mm
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 High Power over Ethernet
Regulation Compliance	FCC Part 15 Class A, CE
Standards Conformance	
Operating Temperature	0 ~ 50 Degree C
Storage Temperature	-10 ~ 70 Degree C
Humidity	5 ~ 95% (Non-condensing)

5. Hardware Installation

This IEEE 802.3at Gigabit High Power over Ethernet Splitter provides three different running speeds - 10Mbps, 100Mbps and 1000Mbps in the same device and automatically distinguishes the speed of incoming connection. Please refer to following sections for detail information about IEEE 802.3at Gigabit High Power over Ethernet Splitter.

The following section describes the hardware features of POE-162S. Before connecting any network device to the POE-162S, read this chapter carefully.

Before Installation

If your network environment is very difficult to find a power socket for your AC-DC Adapter of networked device, the POE-162S provide DC power for this Ethernet Device conveniently and easily.

The POE-162S separates the power out and provide two kind of DC power output through its DIP switch and its voltage and current shown as below:

- 12V DC / 2A
- 24V DC / 1A

2. Product Features

POE-162S:

Interface

- ◆ 2-Port RJ-45 interfaces
 - 1-Port **PoE Power+Data** input
 - 1-Port **Data** output
- ◆ 1 DC out plug connector

PoE

- ◆ Complies with IEEE 802.3at Power over Ethernet, PD
- ◆ Splits the 52~56V DC power over RJ-45 Ethernet cable into DC 12V / 24V output
- ◆ Up to 1 non-IEEE 802.3at device powered
- ◆ Auto-detect of PoE IEEE 802.3at equipment, protect devices from being damaged by incorrect installation
- ◆ Adjustable two different output voltage options (12V / 2A, 24V / 1A) to fit various devices
- ◆ Distance up to 100 meters

3. Product Specification

Product	POE-162S	
Hardware Specification		
Interface	"PoE (Power + Data)" Input Port	1 x RJ-45 STP
	"Data" Out Port	1 x RJ-45 STP
	DC Out Plug Connector	1
LED Indicator	System: PoE In x 1 (Green)	
Network Cable	10Base-T: 4-Pair UTP Cat. 5, up to 100m (328ft)	
	100Base-TX: 2-Pair UTP Cat. 3, 4, 5, up to 100m (328ft)	
	1000Base-T: 2-Pair UTP Cat. 5, 5e, 6 up to 100m (328ft)	
	EIA/TIA-568 100-ohm STP (100m)	
Data Rate	10/100/1000Mbps (vary on Ethernet device attached)	
DIP Switch	12V DC / 24V DC output voltage	
Power Input	802.3at PoE 52~56V DC	
Dimension (W x D x H)	95 x 70 x 25 mm	
Weight	111g	

4. Product Outlook

Figure 1: Shows a front panel of 802.3at PoE Splitter.

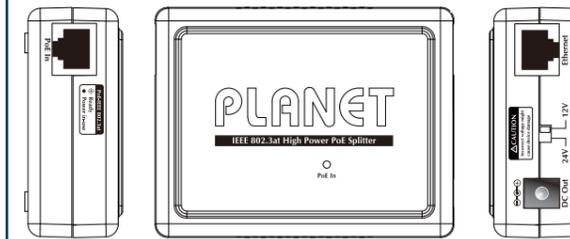
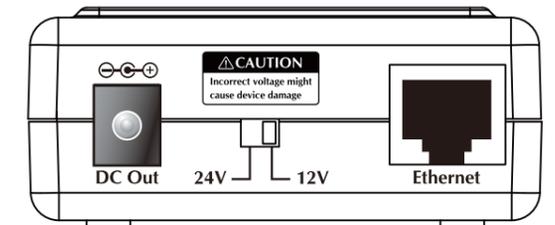


Figure 1: POE-162S Outlook

LED Indicators

LED	Color	Function
PoE In	Green	Lights to indicate the port is providing 56V DC in-line power.



The default will be placed on 12V.



Hint

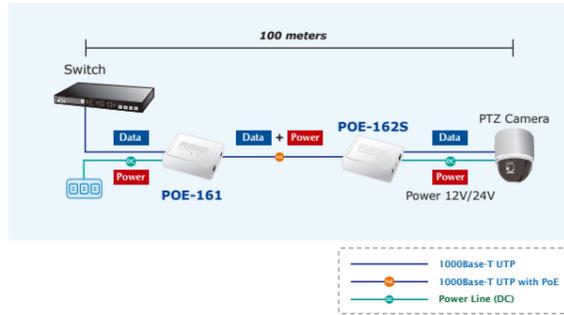
Please check the power requirement of the device carefully that is going to get the power from POE-162S.

1. If the power requirement is higher than POE-162S can supply, current overload will shutdown the POE-162S itself. Thus, it will shutdown your device as well.
2. Please ensure the output voltage is correct for remote device. Otherwise, it will damage your remote device.

POE-162S can work with our PLANET POE-161, GTP-80x and POE switches with High Power products. However, use of third-party device is allowed if the device complied with IEEE 802.3at Power over Ethernet.

Connects with POE-161, the POE-162S Splitter Installation

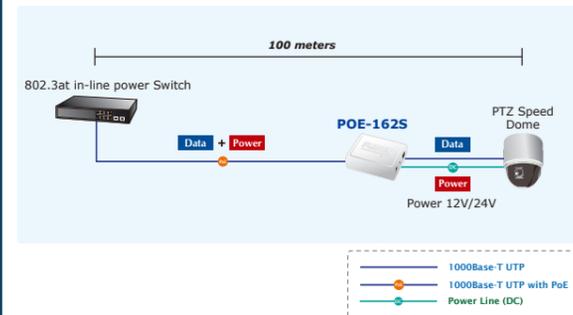
1. Connects a standard network cable from "Ethernet+DC" port of POE-161 to "PoE In" port of POE-162S. The POE LED of POE-162S / POE-161 will light on continuance.



Warning The POE-162S accepts IEEE 802.3at equipment for optimal power injection, other Non-standard PoE power device may cause the POE-162S malfunction.

Connects with 802.3at Switches and Media Converter

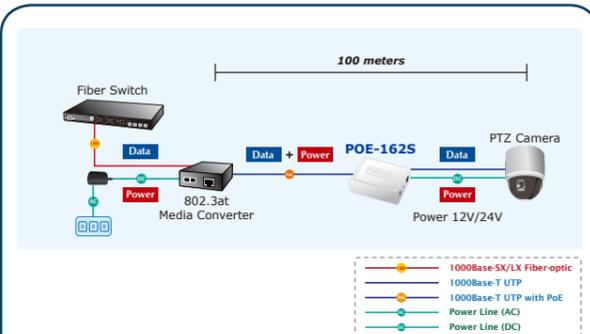
The POE-162S also provides the alternative to make the non IEEE 802.3at devices the possibility to connect with an IEEE 802.3at in-line power device like Power over Ethernet Injector, Power over Ethernet Switch or Power over Ethernet Media Converter. The figure shows as below.



2. Connects the UTP cable in the package from "Ethernet" port of POE-162S to the RJ-45 port of remote device.
3. Adjusts proper DC power output and connects DC plug from "DC OUT" of POE-162S to remote device.

Caution 1. Please ensure the output voltage is correct for remote device.
2. Forbid to switch the Power DIP during operation. Otherwise, it will damage your device.

4. Power on the remote device and its LED indicator will remain on.



IEEE 802.3at Gigabit High Power over Ethernet Splitter POE-162S | Advanced Gigabit High PoE Power Scheme



User's Manual



Customer Support

Thank you for purchase PLANET products. You can browse our online FAQ resource at the PLANET Web site first to check if it could solve you 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_switch@planet.com.tw

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EC Declaration of Conformity

For the following equipment:

*Type of Product : IEEE 802.3at High Power over Ethernet Splitter
*Model Number : POE-162S

* Produced by:
Manufacturer's Name : Planet Technology Corp.
Manufacturer's Address : 10F., No.96, Minquan Rd., Xindian Dist., New Taipei City 231, Taiwan (R.O.C.).

Is here with confirmed to comply with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility (2004/108/EC).

For the evaluation regarding the EMC, the following standards were applied:

EN 55022	(Class B : 2006+A1:2007)
EN 61000-3-2	(2006)
EN 61000-3-3	(1995+A1:2001+A2:2005)
EN 55024	(1998+A1:2001+A2:2003)
IEC 61000-4-2	(2001)
IEC 61000-4-3	(2008)
IEC 61000-4-4	(2004)
IEC 61000-4-6	(2008)
IEC 61000-4-8	(2009)

Responsible for marking this declaration if the:

Manufacturer Authorized representative established within the EU

Authorized representative established within the EU (if applicable):

Company Name: Planet Technology Corp.

Company Address: 10F., No.96, Minquan Rd., Xindian Dist., New Taipei City 231, Taiwan (R.O.C.).

Person responsible for making this declaration

Name, Surname: Kent Kane

Position / Title: Product Manager

Taiwan, 29th July 2011
Place Date

Legal Signature

PLANET TECHNOLOGY CORPORATION

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