

Product Specification

IEEE 802.3at Gigabit High Power over Ethernet Splitter

POE-162S

Version 1.0

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Change History:

Revision:	Date:	Author:	Change List
Version 1.0	2011/7/6	Bryant Wu	Initial Release

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Reviewed By:	Kent Kang	Approved By:	Tom Shih

1. PRODUCT DESCRIPTION



With cost saving and power management feature; Now, Planet release next generation of Power over Ethernet Splitter product with brand-new IEEE 802.3at High Power over Ethernet standard and its Planet model name is POE-162S. The following Key features of POE-162S:

- IEEE 802.3at Power over Ethernet standard compliant
- 12V / 24V DC power output through DIP switch
- Passive 10/100/1000Mbps duplex mode support
- Quick and Easy High Power PoE Network Deployment

The POE-162S is an IEEE 802.3at Gigabit Power over Ethernet device which split the 56V DC over the Ethernet cable into 12V / 24V DC power output. Work with the IEEE 802.3at Power Source Equipment (PSE), the POE-162S frees the device deployment from restrictions due to power outlet locations, which eliminates the costs for additional AC wiring and reduces the installation time.

Quick and Easy High Power PoE Network Deployment

The IEEE 802.3at Gigabit Power over Ethernet devices like- POE-161, High Power PoE Switch and Media Converter. It inserts DC Voltage into Cat.5/5e/6 cable, it allowing the cable between the Splitter (POE-162S) to transfer data and power simultaneously. The maximum distance between the (POE-161, High Power PoE Switch and Media Converter) and Splitter (POE-162S) is 100 meters. With (POE-161, High Power Switch and Media Converter) being installed, it combines the Ethernet digital data with power over the twisted pair cables as an IEEE 802.3at Gigabit Power over Ethernet Injector. And the IEEE 802.3at Gigabit Power over Ethernet splitter-POE-162S shall separate the digital data and the power into 12V / 24V DC power outputs. Unlike existing Power over Ethernet Splitter, the POE-162S also supports passive 10/100/1000Mbps Ethernet connection ability.

Cost effective and easy Cabling installation

With IEEE 802.3at Gigabit High Power over Ethernet devices installed, the system administrator only has to use one single RJ-45 Ethernet cable to carry both power and data to each device. Besides, to connect through (POE-161, High Power PoE Switch and Media Converter) and POE-162S, you could also have benefits which includes cost saving, easy for networking planning and higher reliability. Upon IEEE 802.3at compliant devices installation, the (POE-161, High Power PoE Switch and Media Converter) works together with POE-162S can make the connection while migrating or splitting the power and the Ethernet digital packets, such as PTZ (Pan, Tilt & Zoom) network cameras, PTZ Speed Dome, color touch-screen Voice over IP (VoIP) telephones, multi-channel wireless LAN access points and other Network devices that need higher power to work normally.

2. PRODUCT FEATURES

■ 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 56V DC power over RJ-45 Ethernet cable into DC 12V / 24V output
- Up to 1 non-IEEE 802.3at devices 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

■ 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 standard
- FCC Part 15 Class A, CE

3. PRODUCT SPECIFICATION

3.1 MAIN COMPONENT

PoE Power IC: **CONFIDENTIAL**

3.2 FUNCTION 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: 2-Pair UTP Cat. 3, 4, 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
Power over Ethernet	
PoE Standard	IEEE 802.3at High Power over Ethernet
Number of device can be powered	1
Power Output	12V DC, 2A max. 24V DC, 1A max.
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 Power over Ethernet

3.3 PHYSICAL SPECIFICATIONS:

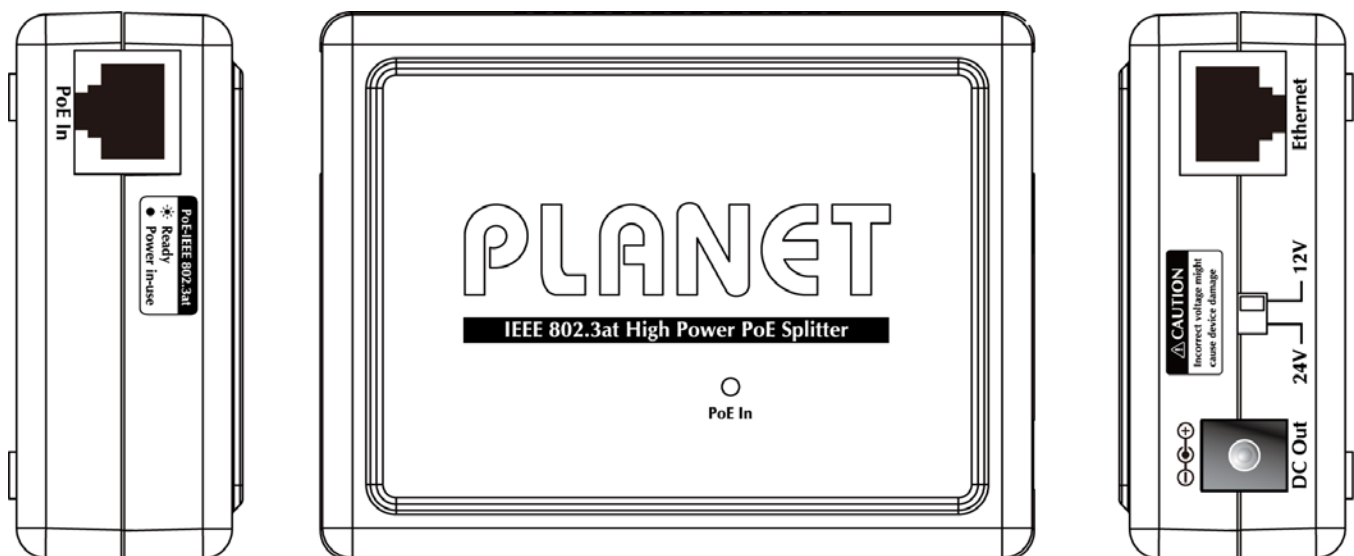
Dimensions:

94.75 x 72.65 x 31.1 mm (W x D x H)

Weight:

111g

Product Outlook:



LED Definition:

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

3.4 ENVIRONMENTAL SPECIFICATION

Operating:

Temperature: 0 Degree C ~ 50 Degree C

Relative Humidity: 5% ~ 90% (non-condensing)

Storage:

Temperature: -10 Degree C ~ 70 Degree C

Relative Humidity: 5% ~ 90% (non-condensing)

3.5 ELECTRICAL SPECIFICATION

Output Voltage:

12V DC, 2A max

24V DC, 1A max

3.6 REGULATORY COMPLIANCE

FCC Part 15 Class A, CE

3.7 REALIABILITY

MTBF > 50,000 hrs @ 25 Degree C

3.8 BASIC PACKAGING

- The IEEE 802.3at Gigabit High Power over Ethernet Splitter x 1
- User's Manual x 1
- 15cm UTP Straight Network Cable x1
- DC Plug cable x 2 (Inside Diameter 2.5mm and 2mm)

3.9 PACKING DIMENSION

Dimension: 195 mm (W) x 145 mm (D) x 65 mm (H)

Weight: 257g (Gross Weight)

26pcs in one carton