

Product Specification

IEEE 802.3at Gigabit High Power over Ethernet Injector

POE-161

Version 1.0

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Change History:

Revision:	Date:	Author:	Change List
Version 1.0	2010/1/8	Marc Liao	Initial Release

Author:	Marc Liao	Editor:	Marc Liao
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 Injector product with brand-new IEEE 802.3at High Power over Ethernet standard and its Planet model name is POE-161. The following Key features of POE-161:

- **IEEE 802.3at Power over Ethernet standard compliant**
- **Maximum 30W output power support**
- **10/100/1000Mbps duplex mode support**

Quick and Easy High Power PoE Network Deployment

The POE-161 is a Mid-Span IEEE 802.3at Gigabit High Power over Ethernet Injector which provides DC 56V over Ethernet cables. The POE-161 IEEE 802.3at Gigabit High Power over Ethernet Injector inserts DC Voltage into Cat.5/5e/6 cable, allowing the cable between the Injector (POE-161) and Splitter (POE-161S) to transfer data and power simultaneously. The maximum distance between the Injector (POE-161) and Splitter (POE-161S) is 100 meters. With POE-161 being installed, it combines the Ethernet digital data with power over the twisted pair cables as an IEEE 802.3at Gigabit High Power over Ethernet Injector. And the IEEE 802.3at Gigabit High Power over Ethernet splitter shall separate the digital data and the power into two outputs. Unlike existing Power over Ethernet Injector, the POE-161 also provides 10/100/1000Mbps Ethernet connection ability, the POE-161 also compatible with IEEE 802.3af Power over Ethernet Splitter and provides maximum up to 15.4 Watts power output, like POE-151S and POE-152S.

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 and POE-161S, 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 work together with POE-161S 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 **Data + Power** output
 - 1-Port **Data input**
- 1 DC 56V input power socket

■ PoE

- Complies with IEEE 802.3at Gigabit High Power over Ethernet Mid-Span PSE
- Provides DC 56V power over RJ-45 Ethernet cable to device with Ethernet port
- Up to 1 IEEE 802.3at devices powered
- Support PoE Power up to 30 Watts for PoE port
- Auto-detect of POE IEEE 802.3at equipment and devices from being damaged by incorrect installation
- Remote power feeding up to 100m
- IEEE 802.3af devices compatible

- **Hardware**
 - Plastic case
 - LED indicators for Power LED and PoE In-use

- **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-161
Hardware Specification		
Interface	“Data” Input Port	1 x RJ-45 STP
	“PoE (Data+Power)” Output Port	1 x RJ-45 STP
	DC 56V Input power socket	1
LED Indicator		System: Power x 1 (Green) PoE Port: PoE in Use 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
Power Consumption		30 Watts max.
Number of device can be powered		1
Power over Ethernet		
PoE Standard		IEEE 802.3at Gigabit Power over Ethernet / Mid-Span PSE
PoE Power Output		DC 56V / 30 Watts
PoE Power supply Type		Mid-Span
Power Pin Assignment		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

3.3 PHYSICAL SPECIFICATIONS:

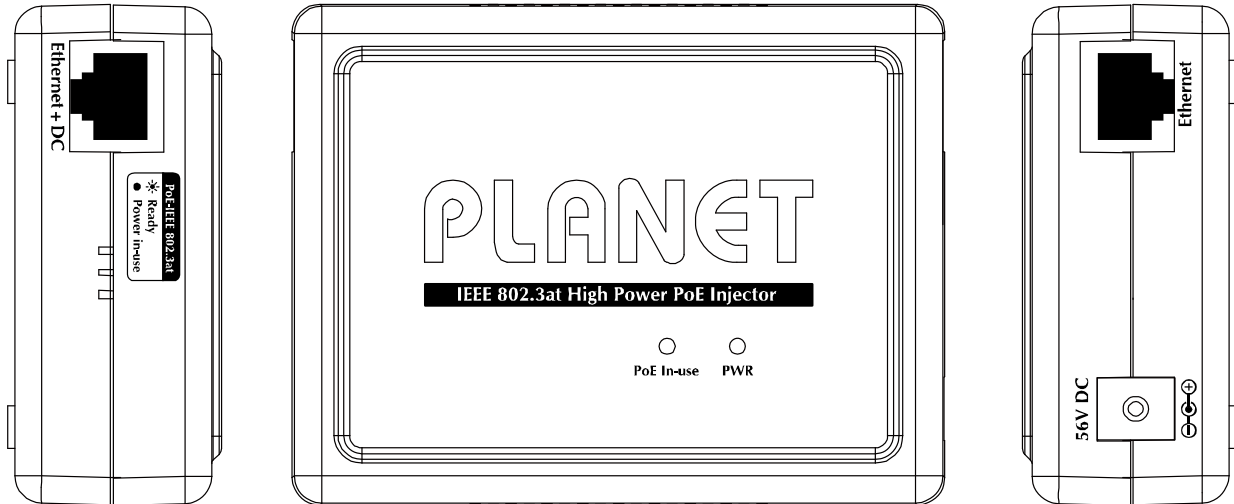
Dimensions:

95 x 70 x 25 mm (W x D x H)

Weight:

83g

Product outlook:



LED definition:

LED	Color	Function
PWR	Green	Lights to indicate that the POE-161 has power.
PoE In-use	Green	Lights to indicate the port is providing 56V DC in-line power.

3.4 ENVIRONMENTAL SPECIFICATION

Operating:

Temperature: 0°C ~ 50 Degree C

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

Storage:

Temperature: -10°C ~ 70 Degree C

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

3.5 ELECTRICAL SPECIFICATION

Power Requirement: 100-240V AC, 50/60Hz

Input Voltage: DC 56V, 0.53A

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 Injector x 1
- ◆ User's Manual x 1
- ◆ DC 56V Power Adapter x1
- ◆ Power Cord x 1

3.9 Packing Dimension

Dimension: 285 mm (W) x 135 mm (D) x 70 mm (H)

Weight: 522g (Gross Weight)

20pcs in one carton