IEEE 802.3at Gigabit High Power over Ethernet Injector (Mid-Span)

Planet technology announced a complete IEEE 802.3af Power over Ethernet Injector solution to filling demand from various Ethernet environments where power outlets are hard to find. Now, PLANET has release the next generation of Power over Ethernet Injector, **POE-161**, with brand-new **IEEE 802.3at High Power over Ethernet**. The POE-161 provides the following key features:

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

The POE-161 is a **Single-Port, Mid-Span IEEE 802.3at High Power over Ethernet Injector** with maximum up to 30 watts of power output over Ethernet cables. It is designed specifically to meet the demand of the growing higher power required network equipment such as **PTZ (Pan, Tilt & Zoom)** network cameras, **PTZ Speed Dome**, color touch-screen / video and voice over IP (VoIP) telephones, multi-channel (11a / b / g / n) wireless LAN access points and other network devices that need higher power to work normally. The **POE-161 High Power Injector** is an ideal solution to delivering data and power to network devices directly via the RJ-45 Port interface without the need of installing extra power outlets and electrical cabling.

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 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 will spilt the digital data and the power into two outputs.

RJ-45 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 standard, Mid-Span PSE
- Provides DC 56V power over RJ-45 Ethernet cable to devices with Ethernet port
- Provides PoE power to 1 IEEE 802.3at compliant device
- Supports PoE Power up to 30 watts for PoE port
- Auto-detects PoE IEEE 802.3at equipment, protecting the devices from being damaged by incorrect installation
- Remote power feeding up to 100m
- IEEE 802.3af Splitter 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

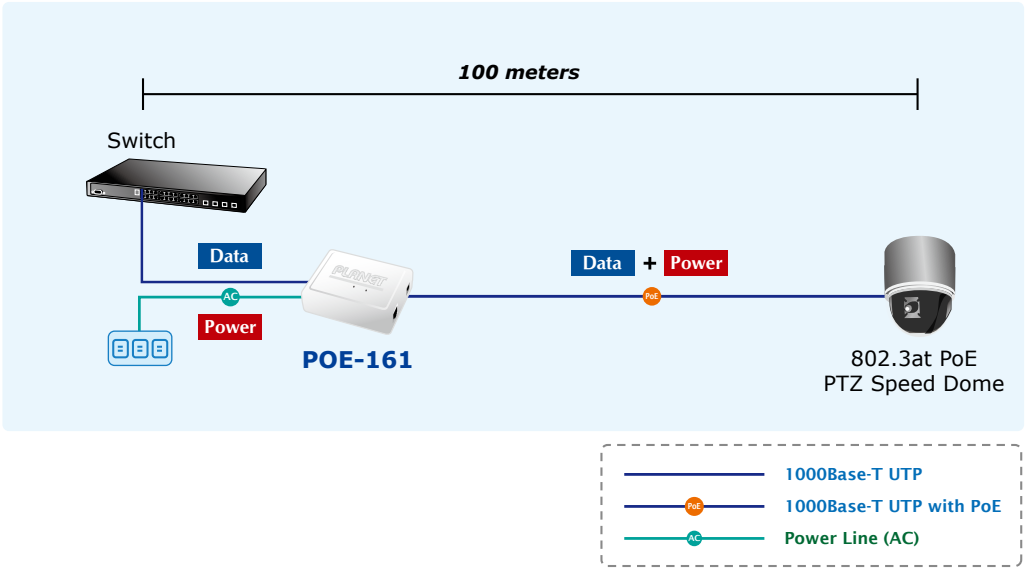
Cost effective and Easy Cabling Installation

With IEEE 802.3at Gigabit High Power over Ethernet devices installed, the system administrator can use only one single RJ-45 Ethernet cable to carry both power and data to each device. Besides, by connecting to the high power PoE splitter POE-162S, the POE-161 can offer benefits of cost saving, easy networking planning and high reliability. Upon the installation of IEEE 802.3at compliant devices, the POE-161, when functioning with the POE-162S, can keep the connection while migrating or splitting the power and the Ethernet digital packets. It thus reduces cables, eliminates the need for dedicated electrical outlets on the wall, ceiling or any unreachable place, and most of all, reduces installation time. The high Power over Ethernet solution frees the Security IP Camera and wireless AP deployment from restrictions of power outlet locations.

Applications

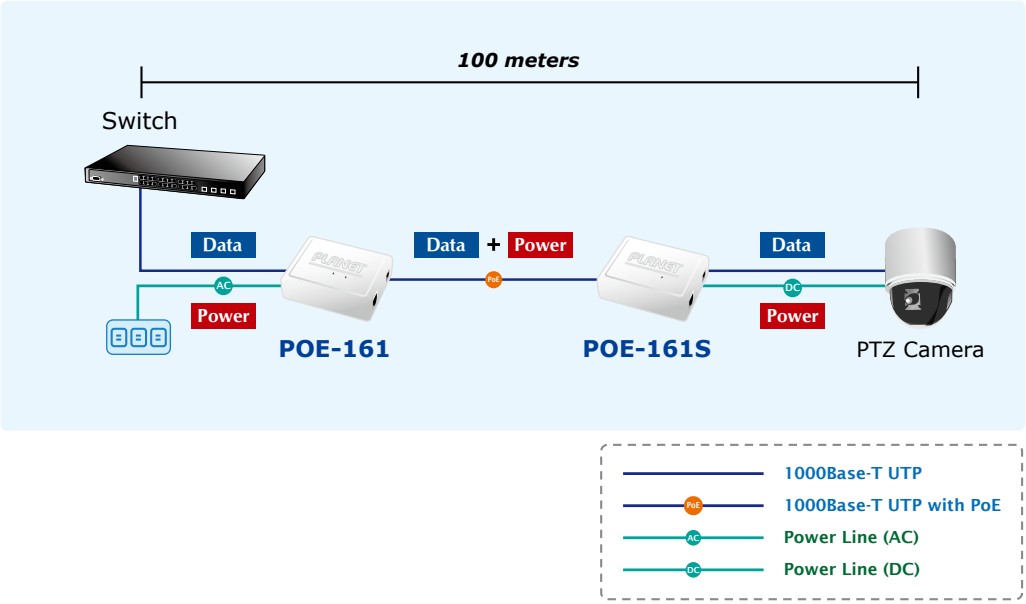
Connection to IEEE 802.3at Compliant Devices

With its capability of IEEE 802.3at **Power over Ethernet**, the POE-161 can directly connect with any IEEE 802.3at end-nodes like 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 which support IEEE 802.3at Power over Ethernet.



The IEEE 802.3at Injector and Splitter Installation

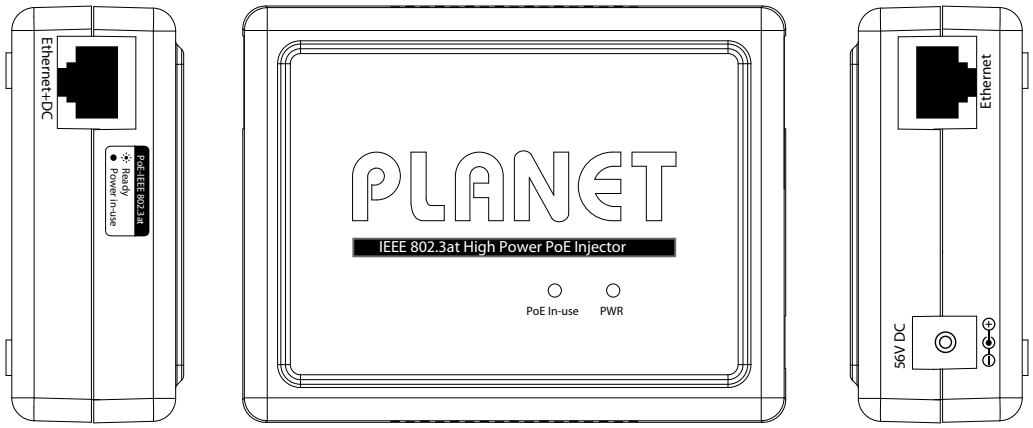
For a place which is hard to find the power inlet, the POE-161 and POE-161S operate as a pair to provide the easiest way to power your Ethernet devices which need high power input, such as PTZ (Pan, Tilt & Zoom) network cameras, PTZ Speed Dome, color touch-screen Voice over IP (VoIP) telephones, and multi-channel wireless LAN access points installed on the top of the building or used in enterprise office or home.



Specifications

Product		POE-161
Hardware Specifications		
Hardware Version		version 2
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
Dimensions (W x D x H)		95 x 70 x 25 mm
Weight		83g
Unit Input Voltage		DC 56V, 0.53A
Power Requirements		100-240V AC, 50/60Hz
Power Consumption		30 watts (max).
Number of devices can be powered		1
Operating Temperature		0 ~ 50 degrees C
Storage Temperature		-10 ~ 70 degrees C
Humidity		5 ~ 95% (non-condensing)
Power over Ethernet		
PoE Standard		IEEE 802.3at Power over Ethernet standard / Mid-Span PSE
PoE Power Output		DC 56V / 30 watts
PoE Power supply Type		Mid-Span
Power Pin Assignment		4/5(+), 7/8(-)
Standard 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

Product Outlook



Ordering Information

POE-161	IEEE 802.3at Gigabit High Power over Ethernet Injector (10/100/1000Mbps, Mid-Span, 30 Watts)