Telf: (01)489-5256 / 792-1818
RPM: #9722-52510 / 990-340327
ventas@jcworld.com.pe
Calle 15 Mz F Lote 25, Ofic. 101
Urb. Prolima- Los Olivos
www.jcworld.com.pe

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

PLANET's next generation of Power over Ethernet Injector, the POE-161, features brand-new IEEE 802.3at High Power over Ethernet. The POE-161 is a IEEE 802.3at Gigabit High Power over Ethernet injector with a maximum support of 30W of output power and offers 10/100/1000Mbps duplex mode support.

The POE-161 is a Single-Port, Mid-Span IEEE 802.3at High Power over Ethernet Injector with a maximum of up to 30 Watts of output power via an Ethernet connection. It is specifically designed to fulfill the demand of higher powered 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 function. The POE-161 High Power Injector is an ideal solution that enables network devices with high power demand to be powered directly via the RJ-45 Port interface without requiring additional power outlet sources or electrical cabling.

IEEE 802.3at Compliant Power over Ethernet

The IEEE 802.3af PoE standard specifies PoE equipment to support a maximum of 15.4 Watts of input power per device. But as the demand for higher powered PoE equiptment continues to grow, the IEEE 802.3at Power over Ethernet standard allows a maximum of up to 30 Watts of input power per PoE device. IEEE's 802.3at Power over Ethernet standard is an ideal solution that fulfills the high power requirements directly via the RJ-45 Port interface. The standards greater power capability out preforms existing 802.3af Power over Ethernet Injectors. The POE-161 provides 10/100/1000Mbps Ethernet connectivity, and is also compatible with standard IEEE 802.3af Power over Ethernet Splitters that provide a maximum of up to 15.4 Watts of power output, like PLANET's POE-151S and POE-152S.

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 a Cat.5/5e/6 cable, allowing the cable between the Injector (POE-161) and Splitter (POE-161S) to simultaneously transfer data and power. The maximum distance between the Injector (POE-161) and Splitter (POE-161S) is 100 meters. With the POE-161, the device combines 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 separates the digital data and the power into two selectable DC outputs(5V DC / 12V DC).

Cost effective and easy Cabling installation

With installed IEEE 802.3at Gigabit High Power over Ethernet devices, system administrators only need to use a single RJ-45 Ethernet cable to deliver both power and data to each device. In addition, connecting the POE-161 and POE-161S, could also yeild the benefits of cost saving, easy networking planning, and higher reliability. Uponthe installation of IEEE 802.3at compliant devices, the POE-161 works together with the POE-161S and can make a connection while transporting digital packets or splitting power and reduces cable clutter, eliminating the need for dedicated electrical outlets that are hard to reach or absent. It frees the deployment of Security IP Cameras and wireless AP deployment from the restrictions due to power outlet locations.

Key Features

INTERFACE
- 2-Port RJ-45 interfaces
  - 1-Port Data + Power output
  - 1-Port Data input
- 1 DC 56V input power socket

POE
- Gigabit High Power over Ethernet Mid-Span PSE
- Pre-IEEE 802.3at compliant
- IEEE 802.3af devices compatible
- Support PoE Power up to 30 Watts for PoE port
- Up to 1 IEEE 802.3at devices powered
- Provides DC 56V power over RJ-45 Ethernet cable to device with Ethernet 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 Splitter devices compatible

HARDWARE
- Plastic case
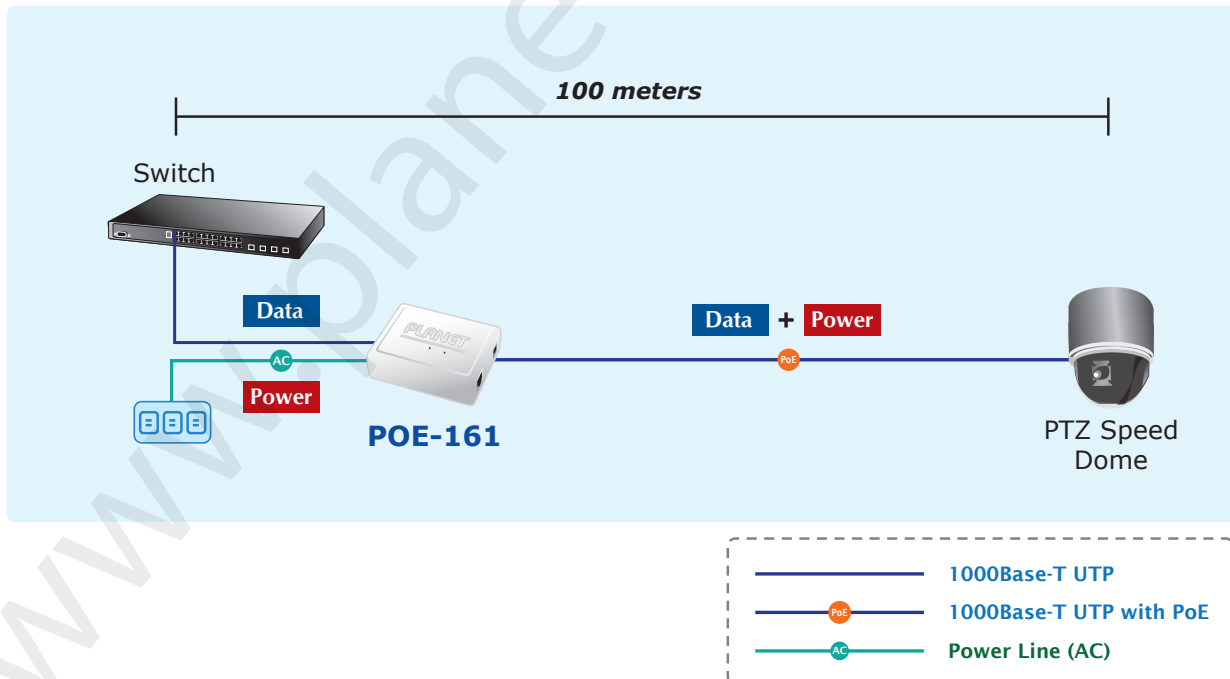- LED indicators for Power LED and PoE In-use

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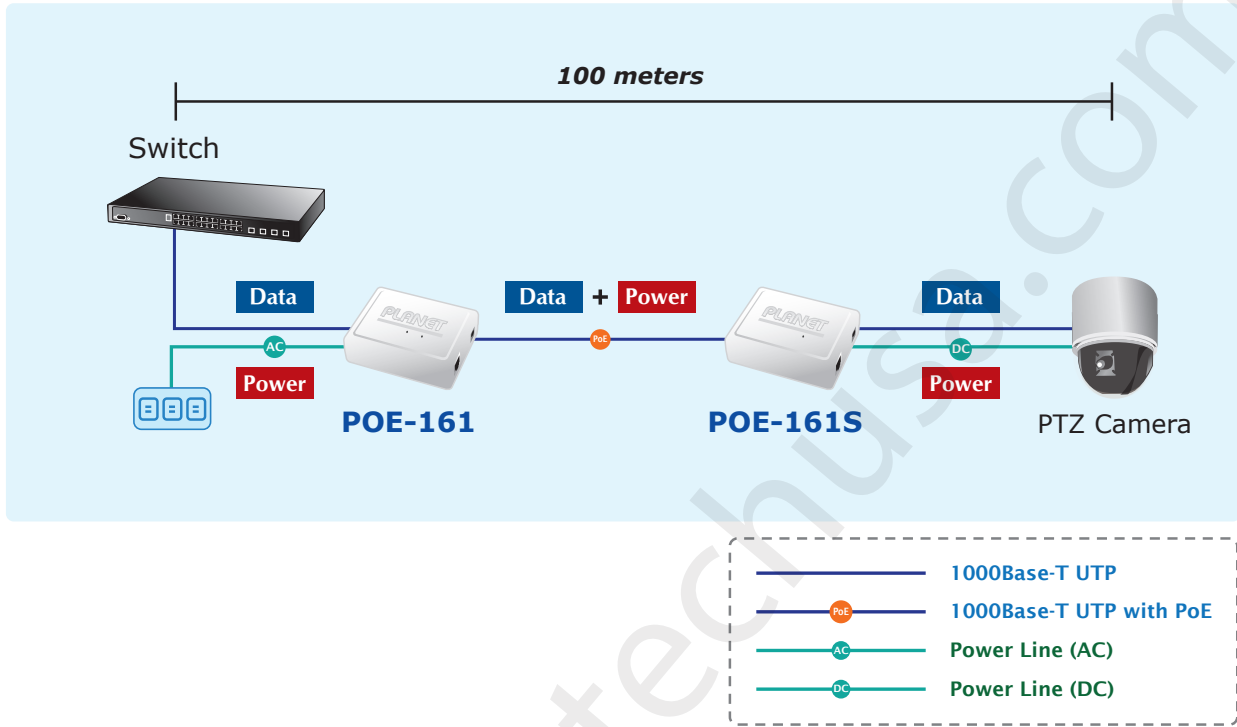- FCC Part 15 Class A, CE

Applications

Connecting IEEE 802.3at Compliant Devices
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's 802.3at Power over Ethernet standard.

100 meters

Switch

Data

AC

Power

POE-161

Data **+** Power

PoE

PTZ Speed Dome

	1000Base-T UTP
PoE	1000Base-T UTP with PoE
AC	Power Line (AC)

Injector and Splitter Installation:

For places where power outlets are hard to reach or absent, the POE-161 and POE-161S operate as a pair, providing the easiest way to power your Ethernet devices that require higher power, 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 which is installed on the top of the building or used in enterprise office or home.

100 meters

Switch

Data | Data + Power | Data

AC | PoE | DC

Power | Power

POE-161 | **POE-161S** | PTZ Camera

────────	**1000Base-T UTP**
──PoE──	**1000Base-T UTP with PoE**
──AC──	**Power Line (AC)**
──DC──	**Power Line (DC)**

SPECIFICATION

Product	IEEE 802.3at Gigabit High Power over Ethernet Injector (Mid-Span)
Model	POE-161
Hardware Specification	
Interface — "Data" Input Port	1 x RJ-45 STP
Interface — "PoE (Data+Power)" Output Port	1 x RJ-45 STP
Interface — 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
Dimension (W x D x H)	95 x 70 x 25 mm
Weight	83g
Unit Input Voltage	DC 56V, 0.53A
Power Requirement	100-240V AC, 50/60Hz
Power Consumption	30 Watts max.
Number of device can be powered	1
Operating Temperature	0 ~ 50 Degree C
Storage Temperature	-10 ~ 70 Degree C
Humidity	5 ~ 95% (Non-condensing)
Power over Ethernet	
PoE Standard	IEEE 802.3at Gigabit Power over Ethernet pre-standard / 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 pre-standard
Regulation Compliance	FCC Part 15 Class A, CE

ORDERING INFORMATION

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

RELATED PRODUCT

POE-161S	IEEE 802.3at Gigabit High Power over Ethernet Splitter with 5V/12VDC output (10/100/1000Mbps)