

IEEE 802.3af Power over Ethernet Extender



Long Distance PoE and Data Extension Solution

PLANET POE-E101 is a newly designed and simple device which extends both the reach of **Ethernet Data** and **IEEE 802.3af Power over Ethernet** over the standard 100m (328 ft.) CAT5e/6 UTP cable to 200m, 300m or longer distance.

Currently, PoE supported networking devices such as PoE IP Cameras, PoE Wireless Access Points and PoE IP Phones have become the mainstream of network deployment because of the convenience of easy installation regardless of additional power supply. However, limited by the UTP cable specifications, only up to 100 meters (328 ft.) cable could be applied for IP-based and PoE powered devices (PD) installation. Therefore, the POE-E101 is designed as the repeater to forward both Ethernet data and PoE power and thus range the PoE powered device installation. By just plug and play but no additional power supply or set up required, one single POE-E101 can increase the PoE range to 200m. By daisy-chaining multiple POE-E101s, it offers you great flexibility to extend the distance of PoE network to triple, quadruple further in length or more.



Providing PoE and Ethernet data extension ability, the POE-E101 is an ideal solution for service providers, campuses and public areas networking application which requires PoE deployment of wireless access points, IP-based surveillance cameras or IP phones in any places. It enables you to centrally manage the power from one location easily, efficiently and cost effectively.

Easy Cabling Installation

The POE-E101 PoE Extender is quite easy to be installed by simple plug and play. It is used between a Power Source Equipment (PSE) and the Powered Device (PD); it injects power to the PD without affecting the data transmission performance. The POE-E101 offers a cost effective and quick solution to doubles the standard range of PoE from 100 to 200 meters. There are 2 RJ-45 ports in a compact mini box of PoE Extender, of which the IN port functions as "PoE (Data and Power) input" and the other port on the other side functions as "PoE (Data and Power) output". The "PoE OUT" port is also the power injectors which transmit DC Voltage to the Cat5e/6 cable and transfer data and power simultaneously between the PSE and PD.

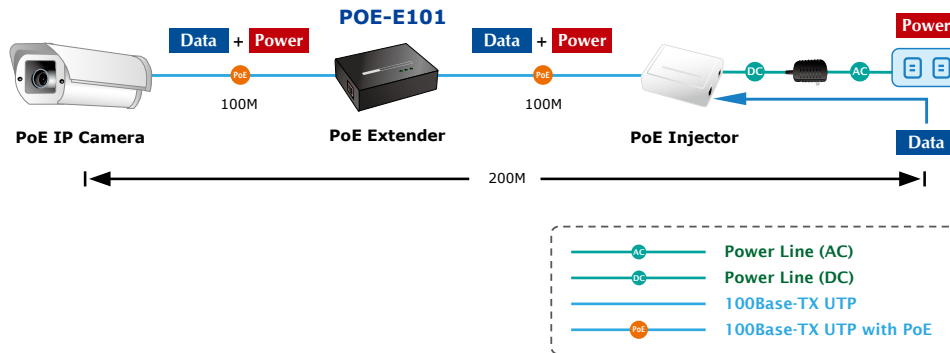
KEY FEATURES

- Complies with **IEEE 802.3af Power over Ethernet**
- Extends the range of PoE an additional 100 meters (328ft.)
- Forwards both Ethernet **data** and PoE **power** to remote devices
- Automatically detects and protects PoE equipments from being damaged by incorrect installation
- Multiple units, daisy-chain installation support
- No external power cable required for installation
- Compact size, Wall-Mountable design
- Plug-and-Play

APPLICATIONS

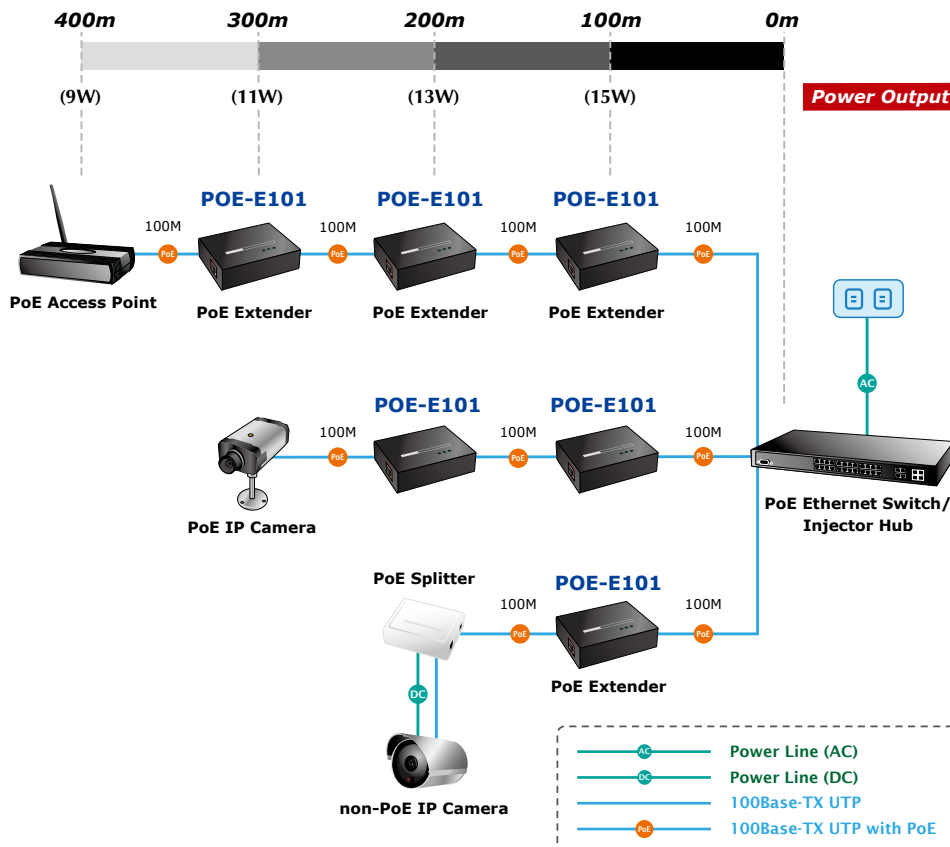
Long Distance PoE IP Surveillance

Is 100 meters cable long enough to meet a wide range of IP Surveillance deployment? The answer is certainly not. To apply the benefits of IP Surveillance and also to achieve long-distance IP Camera distribution, the PoE extender- POE-E101 is a quick and cost-effective option besides by adopting a PoE Injector or PoE Ethernet Switch equipped with fiber optical interface. In the simplest application, a POE-E101 enables a PoE IP camera to be installed up to 200 meters away from a PoE Injector. The PoE Injector delivers PoE power over the first 100 meters to the POE-E101 over UTP cable, and then the POE-E101 forwards the Ethernet data and remaining POE power to the PoE IP camera. The POE-E101 does not require an external power supply and can be installed easily by just plug and play; that means the operator does not need to configure the POE-E101.



Long Distance PoE Wireless Access Point

When being used in Wireless LAN implementations, the POE-E101 enables Wireless Access Points to be connected using standard Cat5e/6 cable over 100 meters from the Power Source Equipment (PSE), such as PoE Switch, PoE Injector Hub and single port PoE injector. The POE-E101 is also powered by the incoming PoE on the Ethernet cable and does not require an external power feed. The POE-E101 shall reduce the usage of cables and eliminate the need of dedicated electrical outlets on the wall, ceiling or any unreachable place. It frees the Security IP Cameras and wireless APs deployment from restrictions of power outlet locations.



SPECIFICATION

Product	IEEE 802.3af Power over Ethernet Extender
Model	POE-E101
Interfaces	
LAN IN	1 x 10/100Base-TX Ethernet with IEEE 802.3af PoE "Data + DC" in Auto MDI/MDI-X, Auto-Negotiation RJ-45 connector
LAN OUT	1 x 10/100Base-TX Ethernet with IEEE 802.3af PoE "Data + DC" out Auto MDI/MDI-X, Auto-negotiation RJ-45 connector
Power over Ethernet	
PoE Standard	IEEE 802.3af Power over Ethernet
PoE Power Supply Type	Mid-Span / Type B
PoE Power Output	48V DC, 270mA, Max. 13Watts
Power Pin Assignment	4/5(+), 7/8(-)
Maximum Distance	Class 1 (3.8 Watts): 600m Class 2 (6.5 Watts): 500m Class 3 (12.9 Watts): 200m Non-PoE (Data): 800m
Hardware Specification	
Data Rate	10/100Mbps
Switch Architecture	Store-and-Forward
Switch Throughput	148810pps@64Bytes
Latency	7.840µs
Maximum Frame Size	1552Bytes
Flow Control	Back pressure for Half-Duplex IEEE 802.3x Pause Frame for Full-Duplex
LED Indicators	<ul style="list-style-type: none"> • 1x PoE IN (Green) • 1 x LAN Data (Green) • 1 x PoE OUT (Green)
Protection	ESD(Ethernet): 6KV Surge (EFT for power): 6KV
Dimension (W x D x H)	94 x 70 x 26 mm
Weight	215g
Power Requirement	IEEE 802.3af compliant with voltage within 44V-56V DC
Power Consumption	2Watts (maximum)
Mechanical	Metal / Wall Mountable and optional DIN-Rail kit for installation
Cable	TIA/EIA-568, Category 5/5e cable
Standards Conformance	
Regulation Compliance	FCC Part 15 Class A, CE
Standard Compliance	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 10/100Base-TX Fast Ethernet IEEE 802.3af Power over Ethernet PSE / Mid-Span IEEE 802.3af Power over Ethernet PD / Mid-Span IEEE 802.3x Flow Control
Environment	
Operating	Temperature: -10 ~ 60 Degree C Relative Humidity: 0 ~ 95% (non-condensing)
Storage	Temperature: -40 ~ 85 Degree C Relative Humidity: 5 ~ 95% (non-condensing)

ORDERING INFORMATION

<i>POE-E101</i>	IEEE 802.3af Power over Ethernet Extender
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ACCESSORIES

<i>RKE-DIN</i>	DIN-Rail Mounting Kit
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RELATIVE PRODUCTS

POE-151S-5V	IEEE 802.3af Power Over Ethernet Splitter with 5VDC output (Mid-Span), (10/100Mbps)
POE-151S-12V	IEEE 802.3af Power Over Ethernet Splitter with 12VDC output (Mid-Span), (10/100Mbps)
POE-152S-5V	IEEE 802.3af Power Over Ethernet Splitter with 5VDC output (End-Span), (10/100/1000Mbps)
POE-152S-12V	IEEE 802.3af Power Over Ethernet Splitter with 12VDC output (End-Span), (10/100/1000Mbps)
ICA-107P	PoE CMOS IP Camera
ICA-H312	H.264 25-meter IR Internet Camera
ICA-750	Dual Mode CCD Box Internet Camera
IVS-110	1-Channel Internet Video Server
WAP-4033PE	54Mbps Wireless PoE Access Point
WDAP-2000PE	54/108Mbps Super A+G WLAN Managed Access Point with PoE
WNAP-1120PE	802.11n Wireless Access Point with PoE
WNAP-3000PE	54/108Mbps 802.11n Enterprise PoE Access Point
VIP-254PT	SIP PoE IP Phone
VIP-255PT	Multi-Language PoE IP Phone
VIP-156PE	802.3af PoE SIP Analog Telephone Adapter
VIP-351PT	Enterprise PoE IP Phone