

1-port 802.3at PoE+ to 2-port 802.3af/at Gigabit PoE Extender



PoE Solution for Breaking RJ45 100m Limitation

PLANET POE-E202 is a 1-port PoE+ to 2-port 802.3af/at Gigabit PoE Extender designed especially for point to multipoint PoE application. The POE-E202 can obtain a maximum of 30-watt PoE power from PoE+ input port and supplies a maximum of 25-watt PoE power budget for two PoE output ports, extending both the **Gigabit Ethernet Data** and **IEEE 802.3at/802.3af Power over Ethernet** over the standard 100m (328 ft.) Cat. 5/5e/6 UTP cable to up to two 200m powered devices at the same time.The POE-E202 provides a simple solution for adding PoE ports without running more cabling and achieves more flexible network applications without requiring an external power adapter.



Plug and Play Installation

The POE-E202 is quite easy to be installed by simple plug and play. It is used between a power source equipment (PSE) and a powered device (PD). The POE-E202 injects power to the PD without affecting the data transmission performance. The POE-E202 offers a cost-effective and quick solution to doubling the standard range of PoE from 100 to 200 meters. The POE-E202 is designed in a compact box containing three RJ45 ports, of which one "PoE IN" port functions as PoE (Data and Power) input and the other two "PoE OUT" ports function as PoE output. The "PoE OUT" port is also the power injector that transmits DC voltage over the Cat5/5e/6 cable and transfers data and power simultaneously between the PSE and PD.

Physical Port

- 3-port 10/100/1000BASE-T Gigabit RJ45
- 1-port data + power input
- 2-port data + power output

Power over Ethernet

- · 1-port data + power input
 - Complies with IEEE 802.3at Power over Ethernet Plus end-span/mid-span PD
 - Supports PoE input power up to 30.8 watts
- · 2-port data + power output
 - Complies with IEEE 802.3af/IEEE 802.3at Power over
 Ethernet end-span PSE
 - Up to 2 IEEE 802.3af/802.3at devices powered
 - Supports PoE power up to 25 watts for each PoE port
 - Auto detects powered device (PD)
- Extends the range of PoE to an additional 100 meters (328ft.)
- Forwards both Ethernet data and PoE power to remote device

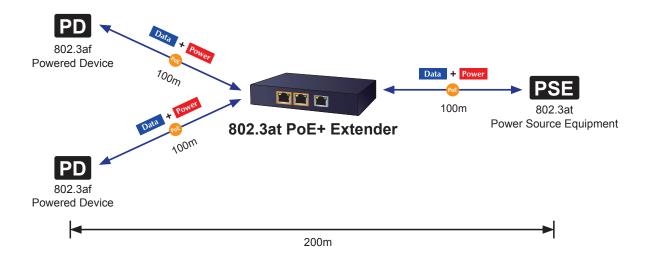
Layer 2 Features

- Hardware-based 10/100/1000Mbps auto-negotiation and auto MDI/MDI-X
- Integrates address look-up engine, supporting 2K absolute MAC addresses
- 10K iumbo packet support
- IEEE 802.1Q VLAN transparency
- Features Store-and-Forward mode with wire-speed filtering and forwarding rates
- IEEE 802.3x flow control for full duplex operation and back pressure for half duplex operation
- · Automatic address learning and address aging
- · Supports CSMA/CD protocol

Case and Installation

- · No external power cable installation required
- · Made of metal, desktop size design
- Wall-mountable, Plug-and-Play installation
- 0 ~ 50 degrees C operating temperature

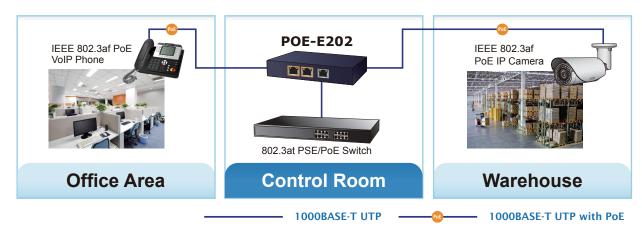




Applications

One Power Sourcing for Multi Powered Devices Solution

Is 100-meter cable long enough for a wide range of IP surveillance deployments? The answer is certainly not. To achieve the benefits of IP surveillance and the long-distance IP camera distribution, PLANET POE-E202 is quite a useful Gigabit PoE extender if users have most of their network already set up, and hope to expand network communications and overcome cable distance limitations offering connections to devices in locations where traditional networking does not allow.



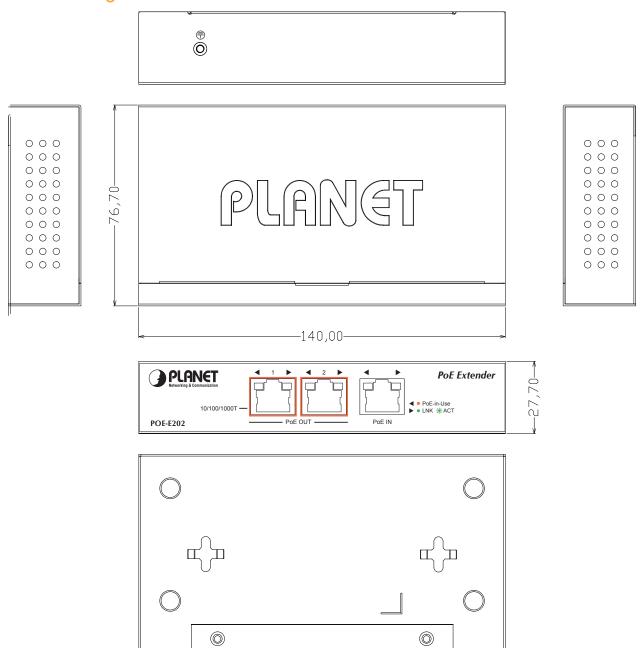


Specifications

Opcomodiono	
Model	POE-E202
Interfaces	
PoE IN	1 x 10/100/1000BASE-T Ethernet with IEEE 802.3at PoE "Data + DC power" in
I OL III	auto MDI/MDI-X, auto-negotiation RJ45 connector
PoE OUT	2 x 10/100/1000BASE-T Ethernet with IEEE 802.3at/802.3af PoE "Data + DC power" out
F0E 001	auto MDI/MDI-X, auto-negotiation RJ45 connector
Power over Ethernet	
	"PoE In" Port
	IEEE 802.3at Power over Ethernet Plus end-span/mid-span PD class 4 PD
PoE Standard	Per "PoE Out" Port
	IEEE 802.3at Power over Ethernet Plus end-span PSE
	IEEE 802.3af Power over Ethernet end-span PSE
PoE Power Supply Type	End-span (Type A)
	"PoE In" Port
Do F. Dower	52~56V DC, max. 30.8 watts
PoE Power	Per "PoE Out" Port
	44~55V DC, max. 25 watts
	"PoE In" Port
Dower Din Assissand	1/2 (+), 3/6 (-); 4/5 (+), 7/8 (-)
Power Pin Assignment	Per "PoE Out" Port
	1/2 (+), 3/6 (-)
Hardware Specifications	
Data Rate	10/100/1000Mbps
MAC Address Table	2K
Data Buffer	2Mbits
Switch Architecture	Store-and-Forward
Switch Fabric	6Gbps
Switch Throughput	4.46Mpps @ 64 bytes
Jumbo Frame	10KB
	IEEE 802.3x pause frame for full duplex
Flow Control	Back pressure for half duplex
	"PoE In" Port: PoE-in-Use x 1 (amber), LNK/ACT x 1 (green)
LED Indicators	"PoE Out" Port 1: PoE-in-Use x 1 (amber), LNK/ACT x 1 (green)
	"PoE Out" Port 2: PoE-in-Use x 1 (amber), LNK/ACT x 1 (green)
	ESD (Ethernet): 2KV (TBD)
Protection	Surge (EFT for power) : 2KV (TBD)
Enclosure	Metal
Installation	Wall mountable
Dimensions (W x D x H)	140 x 77 x 28 mm
Weight	258g
Power Requirements	IEEE 802.3at compliant with voltage within 52V-56V DC
·	1.6 watts/5.5BTU (System on with PoE input)
Power Consumption	2.2 watts/7.5BTU (Ethernet full loading without PoE function)
	36 watts/122.8BTU (Full loading with PoE function)
	10BASE-T: 4-pair UTP Cat. 5 up to 100m (328ft)
	100BASE-TX: 4-pair UTP Cat. 5 up to 100m (328ft)
Network Cable	1000BASE-T: 4-pair UTP Cat. 5e, 6, up to 100m (328ft)
	EIA/TIA-568 100-ohm STP (100m, 328ft)
Standard Conformance	
Regulatory Compliance	FCC Part 15 Class A, CE
_ , , , , , , , , , , , , , , , , , , ,	IEEE 802.3 10BASE-T Ethernet
	IEEE 802.3u 100BASE-TX Fast Ethernet
Standard Compliance	IEEE 802.3ab 1000BASE-T Gigabit Ethernet
	IEEE 802.3af Power over Ethernet
	IEEE 802.3at Power over Ethernet Plus
	IEEE 802.3x Flow Control
Environment	
	Temperature: 0 ~ 50 degrees C
Operating	Relative Humidity: 5 ~ 95% (non-condensing)
	Temperature: -10 ~ 70 degrees C
Storage	Relative Humidity: 5 ~ 95% (non-condensing)



Three View Diagram



Unit: mm

Ordering Information

POF-F202	1-port 802 3at PoE+ to 2-port 802 3af/at Gigabit PoE Extender	

Related Products

POE-E201	IEEE 802.3at Power over Gigabit Ethernet Extender
POE-E304	1-Port 802.3bt PoE++ to 4-Port 802.3af/at Gigabit PoE Extender
IPOE-E174	Industrial 1-Port 802.3bt PoE++ to 4-Port 802.3af/at Gigabit PoE Extender
IPOE-E302	Industrial IP67 1-Port 802.3bt PoE++ to 2-Port 802.3at/bt PoE++ Extender



Power over Ethernet Out Capability



(A): Distance

(B): Distance

(C): Watts

With different distance and different PoE input source, it will inflect the PoE output capability. Please refer to the table below.

When PSE/PoE Switch output is 52V DC

A (Distance)	B (Distance)	C (Watts)
100M	20M	21.6
100M	60M	20.7
100M	100M	19.7

When PSE/PoE Switch output is 56V DC

A (Distance)	B (Distance)	C (Watts)
100M	20M	21.1
100M	60M	20.2
100M	100M	19.3

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