

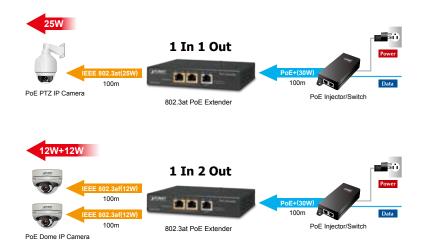
1-Port 802.3at PoE+ to 2-Port 802.3af/at Gigabit PoE Extender



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.



Physical Port

- 3-port 10/100/1000BASE-T Gigabit RJ45 interface
 - 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

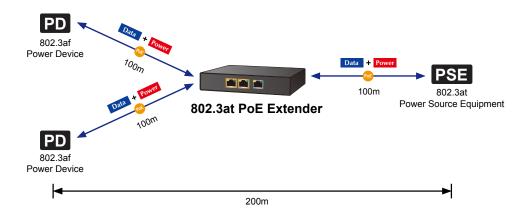
- Hardware based 10/100/1000Mbps auto-negotiation and auto MDI/MDI-X
- Integrates address look-up engine, supporting 2K absolute MAC addresses
- · 10K iumbo packet support
- IEEE 802.1Q VLAN transparency
- Features Store-and-Forward mode with wire-speed filtering and forwarding rates
- IEEE 802.3x flow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

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.



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.



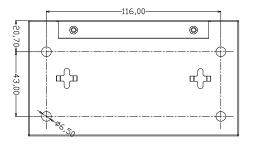


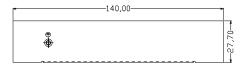
Specifications

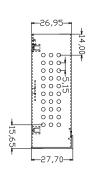
Model	POE-E202
Interfaces	
PoE IN	1 x 10/100/1000BASE-T Ethernet with IEEE 802.3at PoE "Data + DC power" in auto MDI/MDI-X, auto-negotiation RJ45 connector
PoE OUT	2 x 10/100/1000BASE-T Ethernet with IEEE 802.3at/802.3af PoE "Data + DC power" out auto MDI/MDI-X, auto-negotiation RJ45 connector
Power over Ethernet	
PoE Standard	"PoE In" Port IEEE 802.3at Power over Ethernet Plus end-span/mid-span PD class 4 PD 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 Power	"PoE In" Port 52~56V DC, max. 30.8 watts Per "PoE Out" Port 44~55V DC, max. 25 watts
Power Pin Assignment	"PoE In" Port 1/2 (+), 3/6 (-); 4/5 (+), 7/8 (-) 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
Flow Control	IEEE 802.3x pause frame for full duplex Back pressure for half duplex
LED Indicators	"PoE In" Port: PoE-in-Use x 1 (orange), LNK/ACT x 1 (green) "PoE Out" Port 1: PoE-in-Use x 1 (orange), LNK/ACT x 1 (green) "PoE Out" Port 2: PoE-in-Use x 1 (orange), LNK/ACT x 1 (green)
Protection	ESD (Ethernet): 2KV (TBD) Surge (EFT for power): 2KV (TBD)
Enclosure	Metal
Installation	Wall mountable
Dimensions (W x D x H)	140 x 77 x 28 mm
Weight	234g
Power Requirements	IEEE 802.3at compliant with voltage within 52V-56V DC
Power Consumption	1.6 watts/5.5BTU (System on with PoE input) 2.2 watts/7.5BTU (Ethernet full loading without PoE function) 36 watts/122.8BTU (Full loading with PoE function)
Network Cable	10BASE-T: 4-pair UTP Cat. 5 up to 100m (328ft) 100BASE-TX: 4-pair UTP Cat. 5 up to 100m (328ft) 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
Standard Compliance	IEEE 802.3 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet 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	
Operating	Temperature: 0 ~ 50 degrees C Relative Humidity: 5 ~ 95% (non-condensing)
	Temperature: -10 ~ 70 degrees C
Storage	Relative Humidity: 5 ~ 95% (non-condensing)

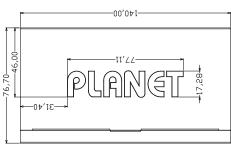


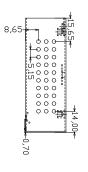
Three View Diagram













Ordering Information

POE-E202 1-port 802.3at PoE+ to 2-port 802.3af/at Gigabit PoE Extender

Related Products

IPOE-E174	1-port Ultra PoE to 4-port 802.3af/at Gigabit PoE Extender
POE-E101	IEEE 802.3af Power over Ethernet Extender
POE-E201	IEEE 802.3at Power over Ethernet Extender

Power over Ethernet Out Capability



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

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

