

IEEE 802.3at Power over Gigabit Ethernet Extender



Long Distance 802.3at PoE+ and Gigabit Data Extension Solution

PLANET POE-E201 is a simple extender which extends both the **Gigabit Ethernet Data** and **IEEE 802.3at/802.3af Power over Ethernet** transmission distance over the standard 100m (328 ft.) Cat. 5/5e/6 UTP cable to 200m, 300m, 400m and the maximum 500m.

No matter how many PoE supported networking devices such as PoE IP cameras, PoE wireless access points and PoE IP phones are deployed, they are easily installed without the need of having an additional electrical outlet. However, limited by the UTP cabling, only up to 100 meters (328 ft.) of cable is used. Thus, the POE-E201 is designed as the extender to transmit both Gigabit Ethernet data and 802.3af/at PoE power over another distance of 100m. By daisy-chaining multiple POE-E201s, distance can be tripled or quadrupled to meet your requirements.



With its ability to provide 802.3af/at PoE and Gigabit Ethernet data extension, the POE-E201 is an ideal networking solution for service providers, campuses and public areas. It enables you to centrally manage the power easily, efficiently and cost-effectively no matter now remote the location is.

- Compliant with IEEE 802.3at Power over Ethernet Plus
 PSE and PD standard
- Backward compatible with IEEE 802.3802.3af Power over
 Ethernet
- Complies with IEEE 802.3/802.3u/802.3ab
 10/100/1000BASE-T
- Extends the range of PoE to more than 100 meters (328ft.).
- Automatically detects and protects PoE equipment from being damaged by incorrect installation
- · Daisy-chain installation support
- Forwards both Ethernet data and PoE power to the remote device
- · No external power cable installation required
- · Compact size, wall-mountable design
- Plug and Play

Plug and Play, and Easy Cabling Installation

The POE-E201 Gigabit 802.3af/at PoE Extender is quite easy to be installed by the simple plug and play configuration. It is used between a power source equipment (PSE) and a powered device (PD).

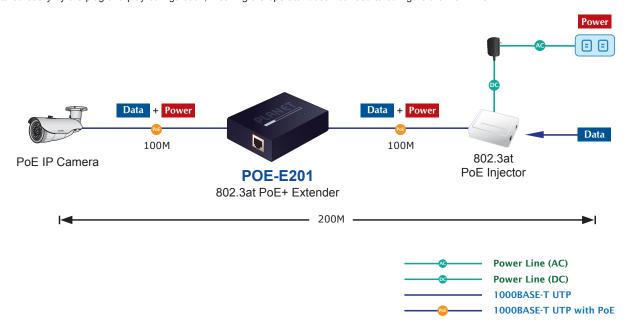
The POE-E201 injects power to the PD without affecting the data transmission performance. The POE-E201 offers a cost-effective and quick solution to double the standard range of PoE from 100 to 200 meters. This Gigabit 802.3af/at PoE Extender, designed in a compact box, features 2 RJ45 ports, of which the "PoE IN" port functions as PoE (Data and Power) input and the "PoE OUT" port on the other side functions as PoE (Data and Power) output. The "PoE OUT" port is also the power injector to transmit DC voltage via the Cat. 5/5e/6 cable and transfer data and power simultaneously between the PSE and a PD.



Applications

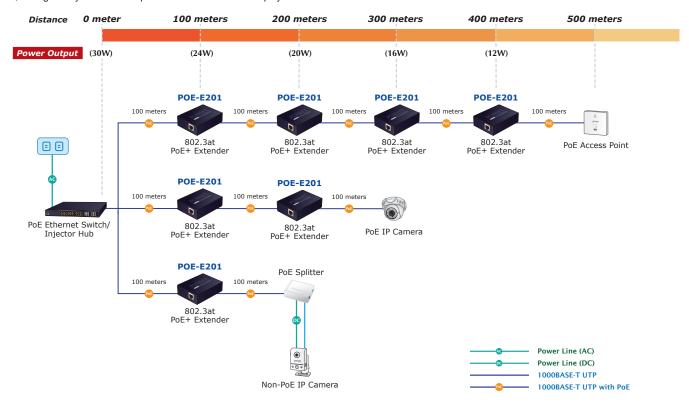
Long Distance PoE IP Surveillance

Is 100 meter cable long enough for a long-distance IP surveillance deployment? The answer is certainly not. To achieve the benefits of IP surveillance and also the long-distance IP camera distribution, PLANET POE-E201 Gigabit 802.3af/at PoE Extender is a quick and cost-effective option besides adopting a PoE injector or PoE Ethernet switch equipped with fiber optic interface. In the simplest application, the POE-E201 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-E201 over UTP cable, and then the POE-E201 forwards the Ethernet data and remaining POE power to the PoE IP camera. The POE-E201 does not require an external power supply and can be installed easily by the plug and play configuration, meaning the operator does not need to configure the POE-E201.



Long Distance PoE Wireless Access Point

In the wireless LAN, the POE-E201 enables wireless access points to be connected using standard Cat.5/5e/6 cable over 100 meters in length from the PSE, such as PoE switch, PoE injector hub or single port PoE injector. The POE-E201 is also powered by the incoming PoE on the Ethernet cable and does not require any external power feed. Therefore, the POE-E201 can reduce the usage of cables and eliminate the need of dedicated electrical outlets on the wall, ceiling or any unreachable place for the wireless AP deployment.



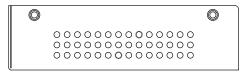


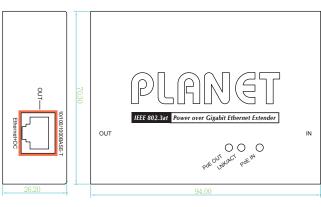
Specifications

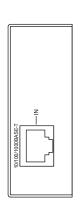
Network Cabe	opecinications	
1.x to/1001008085E.T. Ethorner with IEEE 802.38t/902.38t POE "Data + DOE" in auto MD/MDH.X, auto-negotiation (PAI) 5.comector 1.x to/1001008085E.T. Ethorner with IEEE 802.38t/902.38t POE "Data + DOE" out auto MD/MDH.X, auto-negotiation R.445 connector 1.x to/1001008085E.T. Ethorner with IEEE 802.38t POE - Data + DOE" out auto MD/MDH.X, auto-negotiation R.445 connector 1.x to/1001008085E.T. Ethorner with IEEE 802.38t POE - Compliant with voltage within 62V-58t VD C 1.x to/1001008085E.T. Ethorner with IEEE 802.38t POE - Compliant with voltage within 62V-58t VD C 1.x to/1001008085E.T. Ethorner was read to the second with second with read of the second with read		POE-E201
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LAN OUT	LAN IN	
Marian	LAN OUT	
EEE 802.34 PDE compliant with voltage within \$2V-50V DC	Dimensions (W x D x H)	94 x 70 x 26 mm
	Weight	189g
Metal	Power Requirements	
Installation Wall or DIN-rail mounting	Power Consumption	2.6 watts (system maximum) /PoE Output at maximum 36 watts
ESD (Ethernet)	Enclosure	Metal
	Installation	Wall or DIN-rail mounting
1 x PoE IN (Green)	Protection	
Motion M	LED Indicators	• 1 x PoE IN (Green) • 1 x LAN Data (Green)
Switching Specifications 10/100/1000Mbps Data Rate 10/100/1000Mbps Switch Architecture Store-and-Forward 10Mbps:14880pps@64Bytes 100Mbps:148810pps@64Bytes Maximum Frame Size 9K bytes Back pressure for half duplex Flow Control Back pressure for half duplex Power Over Ethernet "PoE In" Port IEEE 802.33 at Power over Ethernet Plus end-span/mid-span PD class 4 PD PoE Standard Por "PoE Out" Port IEEE 802.33 at Power over Ethernet Plus end-span/mid-span PD class 4 PD PoE Power Supply Type End-span/Type A "PoE In" Port 48-56V DC, max. 30.8 waits "PoE In" Port 48-56V DC, max. 30.8 waits "PoE In" Port 1/2 (*), 36 (*), 45 (*), 7/8 (*) Power Pin Assignment "PoE In" Port I12 (*), 36 (*), 45 (*), 7/8 (*) "PoE In" Port I12 (*), 36 (*), 45 (*), 7/8 (*) "PoE Out" Port I12 (*), 36 (*), 45 (*), 7/8 (*) "PoE Out" Port I12 (*), 36 (*), 36 (*), 7/8 (*) "PoE Out" Port I12 (*), 36 (*), 45 (*), 7/8 (*) "PoE Out" Port I12 (*), 36 (*), 36 (*), 7/8 (*), 7/8 (*)	Network Cable	100BASE-TX: 4-Pair UTP Cat. 5 up to 100m (328ft) 1000BASE-T: 4-Pair UTP Cat. 5e, 6, 6A, up to 100m (328ft)
Data Rate 10/100/1000Mbps Switch Architecture Store-and-Forward (MDMps:148810pps@64Bytes) 100Mbps:148810pps@64Bytes 100Mbps:1488000pps@64Bytes Maximum Frame Size 9k bytes Back pressure for half duplex Flow Control IEEE 802.3x pause frame for full duplex Power over Ethernet "PoE In" Port IEEE 802.3x Power over Ethernet Plus end-span/mid-span PD class 4 PD PoE Standard Per "PoE Out" Port IEEE 802.3al Power over Ethernet Plus end-span/mid-span PSE Backward compatible with IEEE 802.3af Power over Ethernet standard PoE Power "PoE In" Port 48-56V DC, max. 30.8 watts "PoE In" Port 44-52V DC, max. 26 watts "PoE In" Port 42 (+), 3/6 (-), 4/5 (+), 7/8 (-) "PoE In" Port 1/2 (+), 3/6 (-), 4/5 (+), 7/8 (-) "PoE Out" Port 1/2 (+), 3/6 (-) "PoE In" Port 1/2 (+), 3/6 (-) 3/8 (-), 4/5 (+), 7/8 (-) "PoE Out" Port 1/2 (+), 3/6 (-) Maximum Distance 500 meters with daisy-chain installation of 4 units Standards Conformance FCC Part 15 Class A, CE	Switching Specifications	
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Back pressure for half duplex	Maximum Frame Size	
Flow Control IEEE 802.3x pause frame for full duplex Power over Ethernet		
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Power Pin Assignment 1/2 (+), 3/6 (-); 4/5 (+), 7/8 (-) "PoE Out" Port 1/2 (+), 3/6 (-) Maximum Distance 500 meters with daisy-chain installation of 4 units Standards Conformance Regulatory Compliance FCC Part 15 Class A, CE IEEE 802.3 10BASE-T Ethernet IEEE 802.3 10BASE-TX Fast Ethernet IEEE 802.3 au 100BASE-TX Fast Ethernet IEEE 802.3 ab 1000BASE-TX Fast Ethernet IEEE 802.3 ab Power over Ethernet IEEE 802.3 at Power over Ethernet IEEE 802.3 at Power over Ethernet Plus IEEE 802.3 at Power over Ethernet Plus IEEE 802.3 av Flow Control Environment Temperature: -10 ~ 60 degrees C Relative Humidity: 5 ~ 95% (non-condensing) Temperature: -40 ~ 85 degrees C		
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Temperature: -40 ~ 85 degrees C		
Relative Humidity: 5 ~ 95% (non-condensing)	Storage	Temperature: -40 ~ 85 degrees C



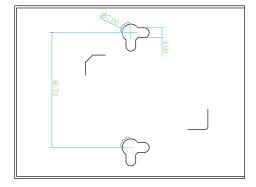
Product Outlook











Unit: mm

Ordering Information

POE-E201 IEEE 802.3at Power over Gigabit Ethernet Extender

Accessories

RKE-DIN DIN-rail Mounting Kit

Related PoE Products

POE-E202	1-Port IEEE 802.3at PoE+ to 2-Port 802.3af/at Gigabit PoE Extender
POE-E304	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

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