Gigabit PoE Extender

ALL-PR2012P-E

USER MANUAL

Gigabit Power-over-Ethernet Extender

Order information

Outdoor waterproof Gigabit PoE Extender 1(PoE IN) into 1(PoE OUT) 25W

Description

Ethernet and PoE connections both restrict cable distances to 100 meters between network ports. To overcome this distance limit, network installers can simply connect an PoE Extender in-line with the Cat-5e or Cat-6 cable (Outdoor type).

With Gigabit PoE Extender, PDs (such as IP Security Cameras, Wireless Access Points) can be installed at greater distances than 100 meters from one another. By connecting PoE Extender for every extra 100 meters of cable, both Ethernet and PoE can be extended to 200 meters, depending on PDs power required and power source.

Gigabit PoE Extender does not require any additional power supply and the connected PDs is fed by an single PoE switch or mid-span, which simplifies the installation. The PoE Extender offers two Gigabit Ethernet ports, which are both configured automatically for link speed (duplex and crossover) and the full-rate network throughput is main-tained. PoE IN for connection with a PoE Switch, 12.36 or 45.78 powered support, supports IEEE802.3af/at the power supply, PoE OUT for the supply terminal 1 Gigabit, PoE total power can reach 25W (PoE Switch needs to provide IEEE802.3at power).
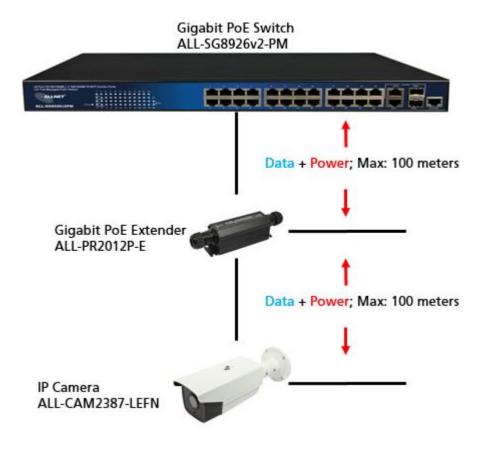
Features

- Compatible with IEEE802.3af and IEEE802.3at
- Extends the range of PoE and Gigabit Ethernet by 100 meters
- No additional power supply is required
- Automatically detects and protects PoE equipments from being damaged by incorrect installation
- Gigabit full-rate network throughput for the whole extended distance
- Wall-Mountable design
- Easy plug-and-play installation
- Complies with IP66 (supports Outdoor rain prevention, needs waterproofed UTP cable)

Specifications

Item	Description
Number of channels	1(PoE IN) into 1(PoE OUT)
Pass through data rates	10/100/1000 Mbps half/full duplex
Power over Ethernet input	Pin Assignment and Polarity: Both 1/2 (-), 3/6 (+) and 7/8 (-), 4/5 (+)
Power over Ethernet output	Pin Assignment and Polarity: 1/2 (+), 3/6 (-) Output power: up to 25W
Connectors	Waterproof RJ-45, EIA 568A and 568B
Network cables	Outdoor type shielded category 5 (or higher)
Dimensions	185mm x 45mm x 45mm
Mounting	Wall or Shelf
Environment	Indoor or Outdoor
Environmental Conditions	Operating Ambient Temperature: -25 to 55°C Operating Humidity: Maximum 90%, non-condensing Storage Temperature: -30 to 70°C Storage Humidity: Maximum 95%, non-condensing
Regulatory Compliance	IEEE802.3af (PoE), IEEE802.3at (PoE+)

Application

Maximum distances for power sources

Multiple PoE Extenders can be connected every 100 meters to obtain greater distances. The actual figures on operating conditions. The range is over 24 AWG or heavier Cat-5e or Cat-6 cable except where specified.

Examples for medium power PoE devices (that are PoE Class 2, or require under 6 watts)

PoE Source			
PoE switch (802.3af, Output voltages 50V)	15W mid-span (802.3af, Output voltages 50V)	PoE+ switch (802.3at, Output voltages 50V)	30W mid-span (802.3at, Output voltages 50V)
Maximum distances			
200m	200m	300m	300m

Examples for full power PoE devices (that are PoE Class 0 or 3, or require under 12 watts)

Examples for PoE+ devices (that are PoE Class 4 which needs under 22 watts, or 802.3at compliant)

PoE Source			
PoE switch (802.3af, Output voltages 50V)	15W mid-span (802.3af, Output voltages 50V)	PoE+ switch (802.3at, Output voltages 50V)	30W mid-span (802.3at, Output voltages 50V)
Maximum distances			
not applicable	not applicable	200m	200m

CE

ALLNET GmbH Computersysteme declares that the device **ALL-PR2012P-E** is in compliance with the essential requirements and other relevant provisions of Directive 2004/108/EC or 2014/30/EU. The Declaration of conformity can be found under this link: www.allnet.de/downloads.html

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