



Gigabit PoE Extender



User's manual

Gigabit Power-over-Ethernet Extender

Product

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 a PoE Extender in-line with the Cat-5e or Cat-6 cable (Outdoor type).

With a 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 the PoE Extender for every extra 100 meters of cable, both Ethernet and PoE can be extended up to 300 meters, depending on PDs power required and power source.

The Gigabit PoE Extender does not require any additional power supply and the connected PDs are fed by a single PoE switch or mid-span, which simplifies 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 maintained.

The PoE IN connection accepts power on pins 1,2,3,6 and 4,5,7,8 and conforms to IEEE802.3af/at PoE specification, Mode A and Mode B. PoE OUT connection provides up to 25W with an IEEE802.3AT 30W input. PoE Out provides power on pins 1,2(V+) and 3,6(V-).

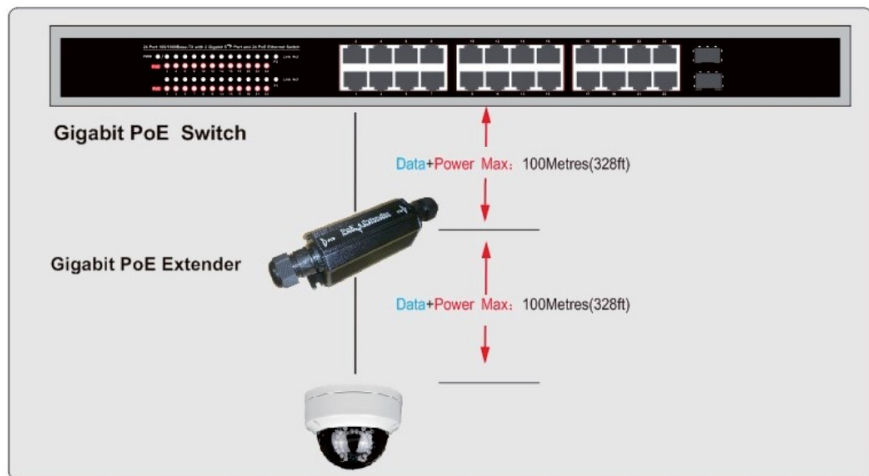
Features:

- Compatible with IEEE802.3af and IEEE802.3at.
- Extends the range of PoE and Gigabit Ethernet an additional 100 meters.
- No additional power supply is required.
- Automatically detects and protects equipment from being damaged by incorrect installation.
- Gigabit Full-rate network throughout the whole extended distance.
- Wall-Mountable design.
- Easy plug-and-play installation.
- IP66 Rated (Fully Weatherproof and Outdoor Rated).

Specifications

Item	Description
No. 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	Shielded 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 100% Storage Temperature: -30 to 70°C Storage Humidity: Maximum 95%, Non-condensing
Regulatory Compliance	IEEE 802.3af (PoE), IEEE 802.3at (PoE+)

Typical Application



Typical Maximum Distances

Multiple PoE Extenders can be connected every 100 meters to obtain greater distances. The actual figures depend on specific operating conditions. The ranges shown below are based on 24 AWG or heavier Cat-5e or Cat-6 cable.

Examples for Low Power PoE Devices (PoE Class 2 under 6 watts)

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

Examples for PoE+ Devices (PoE Class 4 under 22 watts and 802.3at compliant)

PoE Source			
PoE switch (802.3af, Output voltage 50V)	15W mid-span (802.3af, Output voltage 50V)	PoE+ switch (802.3at, Output voltage 50V)	30W mid-span (802.3at, Output voltage 50V)
Maximum Distances			
Not applicable	Not applicable	200m	200m