Overview

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 calbe.
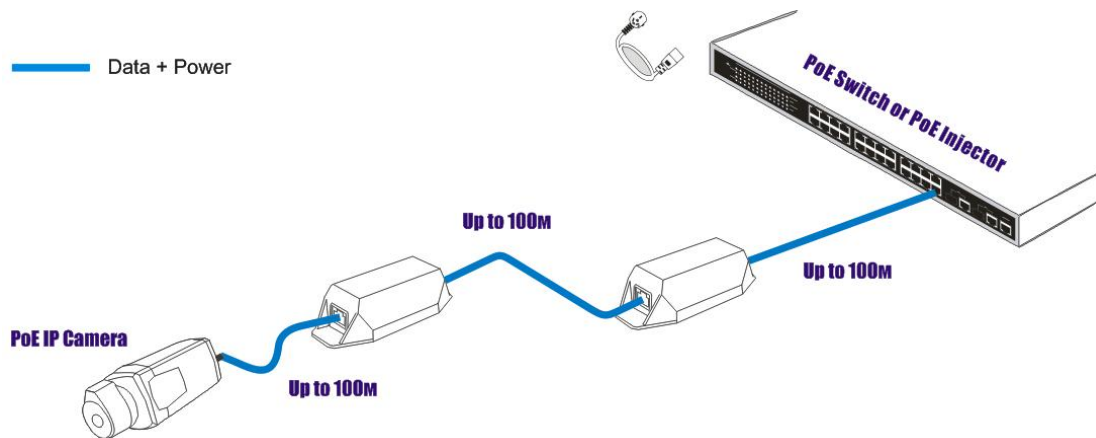
With PoE Extender, PDs (such as IP Security Cameras, VoIP telephones, wireless access points) can be installed at greater distances than 100 meters from one another. By connecting PoE Extender for every extra 100 meters of cable, both Ethernet and PoE can be extended to 200 meters, 300 meters, or even greater distances, depending on PDs power required and power source.

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 installation. PoE Extender offers two Ethernet ports, which are both configured automatically for link speed, duplex and crossover and the full-rate network throughput is main-tained.

Features

- Compatible with IEEE802.3af and IEEE802.3at
- Extends the range of PoE and Ethernet an additional 100 meters
- No additional power supply is required
- Automatically detects and protects PoE equipments from being damaged by incorrect installation
- Full-rate network throughout the whole extended distance
- Compact size, Wall-Mountable design
- Easy plug-and-play installation
- IP65 aluminum case
- Operating Ambient Temperature:-40 to 75℃

Application

Technical Indexes

Item	Description
No. of channels	1
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 22W
Connectors	Shielded RJ-45, EIA 568A and 568B
Network cables	Shielded category 5 (or higher)
Dimensions	140mm x 40mm x 30mm
Mounting	Wall of shelf
Environment	Outdoor IP65

Environmental Conditions	Operating Ambient Temperature:-40 to 75℃
	Operating Humidity:
	Maximum 90%, Non-condensing
	Storage Temperature:-40 to 75℃
	Storage Humidity:
	Maximum 95%, Non-condensing
Regulatory Compliance	IEEE 802.3af (PoE), IEEE 802.3at (PoE+)
	RoHS Compliant, CE, FCC
Electromagnetic	FCC Part15, Class B

Maximum Distances for Power Sources

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

Examples for low power PoE Devices (that are PoE Class 1, or require under 4 watts)

PoE Source			
PoE switch (802.3af)	15W mid-span (802.3af)	PoE+ switch (802.3at)	30W mid-span (802.3at)
Maximum Distances			
400m	400m	500m	500m

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

PoE Source			
PoE switch (802.3af)	15W mid-span (802.3af)	PoE+ switch (802.3at)	30W mid-span (802.3at)
Maximum Distances			
300m	300m	400m	400m

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

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

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

PoE Source

PoE switch (802.3af)	15W mid-span (802.3af)	PoE+ switch (802.3at)	30W mid-span (802.3at)
Maximum Distances			
Not applicable	Not applicable	200m	200m