

# Quick Start Guide



**4-CH Gigabit PoE++ Extender**

## 1 Features

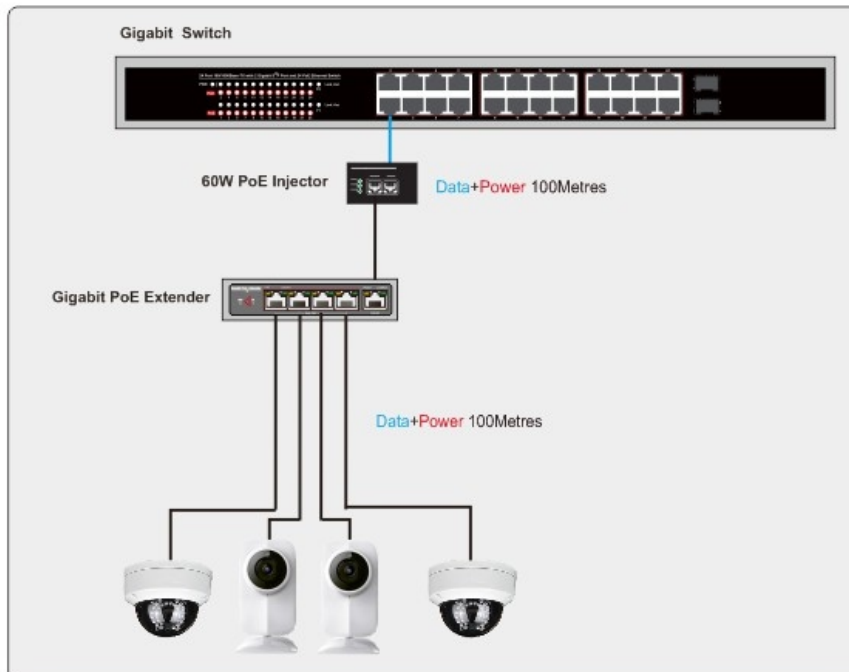
- Compatible with 10/100/1000Mbps Ethernet
- Compatible with IEEE802.3af and IEEE802.3at and IEEE802.3bt 4 Pairs
- Extends the range of PoE and Ethernet an additional 100 meters
- No additional power supply is required
- Automatically detects and protects PoE equipment from being damaged by incorrect installation
- Full-rate network throughout the whole extended distance
- Compact size, Wall-Mountable design
- Easy plug-and-play installation
- EMI standards complies with FCC, CE class B



**Notice:** The transmission distance is related to the connected cable. Standard Cat5e/6 network cable and the quality of camera will help maximize the furthest distance possible.

## 2 Product Introduction

The 4-CH Gigabit PoE++ Extender extends Ethernet and PoE connections beyond the 100-meter limit, allowing devices like IP cameras and wireless access points to be installed at greater distances. It requires no additional power supply, as it is powered by a single PoE switch or mid-span, supports up to 60W PoE output, and offers four output ports. The extender is easy to install, with automatic configuration for link speed, duplex, and crossover, ensuring full-rate network throughput.



### 3 Specifications

Item	Description
No. of channels	1(PoE IN) into 4(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 4/5,7/8
Power over Ethernet Output	Pin Assignment and Polarity: 1/2(+), 3/6(-) Output Power: up to 12W for 4 PSE or 25W for 2 PSE
Indicators	LED indicators are located on the RJ45 connector Power indicator: PoE enabled Powered success: Power Network Indicator: Link/Act
Connectors	Shielded RJ-45, EIA 568A and 568B
Network cables	Shield category 5 (or higher)
Mounting	Wall of shelf
Environment	Indoor
Regulatory Compliance	IEEE802.3af (15.4W) IEEE802.3at (30W) IEEE802.3bt 4 Pairs(60W)
Environmental Conditions	Operating Ambient Temperature:-10 to 45°C Operating Humidity: Maximum 90%, Non-condensing Storage Temperature:-30 to 70°C Storage Humidity: Maximum 95%, Non-condensing
Dimensions	119mm x 85mm x 28mm

Specifications are subject to change without prior notice.

### 4 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 24AWG 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			
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, 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 PoE+ Devices (that are PoE Class 4 that 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