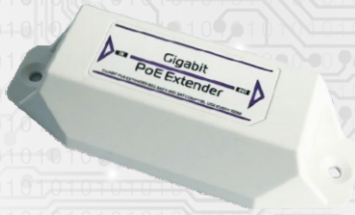# Petenet®

Quick Start Guide
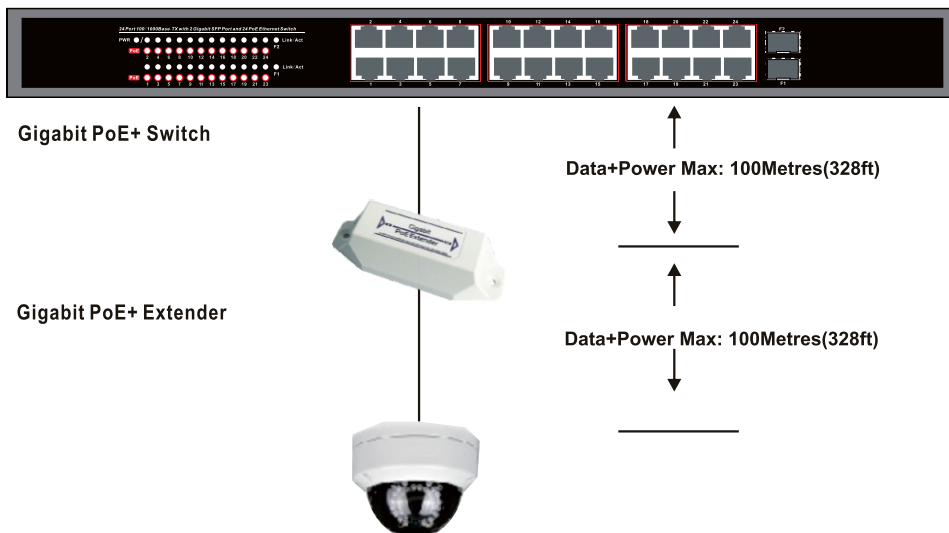
Gigabit PoE+ Extender

1 Features

- Compatible with 10/100/1000Mbps Ethernet
- 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 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

⚠️ **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 Gigabit PoE+ Extender overcomes the distance limitation of Ethernet and PoE connections by extending the cable length from 100 meters to 200 meters, 300 meters, or even further without requiring additional power supply. It connects to an existing PoE switch or mid-span, simplifying the installation process, and automatically configures link speed, duplex, and crossover, ensuring full-rate network throughput is maintained.

Gigabit PoE+ Switch

Data+Power Max: 100Metres(328ft)

Gigabit PoE+ Extender

Data+Power Max: 100Metres(328ft)

3 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 4/5,7/8
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	Shield category 5 (or higher)
Mounting	Wall of shelf
Environment	Indoor
Regulatory Compliance	IEEE 802.3af (PoE), IEEE 802.3at (PoE+)
Environmental Conditions	Operating Ambient Temperature:-10 to 55°C Operating Humidity: Maximum 90%, Non-condensing Storage Temperature:-40 to 70°C Storage Humidity: Maximum 95%, Non-condensing
Dimensions	130mm x 46mm x 35mm

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