

# PoE Extender

## *Installation Guide*



## Product overview

4-Ports PoE Extender has 5 10/100M PoE ports, among them, 1 port for power input, and others for power output. Comply with 10/100BASE-TX, IEEE802.3at(power-in) /IEEE802.3af(power-out). The power input is 25.5W in total. Power output for single port is 15.4W(max).

1-Port PoE Extender has 2 10/100M LAN ports, among them, one for power input, the other for power output. Comply with 10/100BASE-TX, IEEE802.3af(PoE). Power input for single port is 13W. Power output for single port is 12.2W.

PoE Extenders can increase the transmission distance for Ethernet data and PoE power up to 120m via Cat5 UTP cables. It offers you great flexibility to extend the distance of PoE.

## Features

- ▲ Comply with IEEE 802.3af Power over Ethernet.
- ▲ 10/100M Supported.
- ▲ Extend the range of PoE an additional 120 meters.
- ▲ Automatically detects and protects PoE equipments from being damaged by incorrect installation.
- ▲ Plug-and Play no configuration required.
- ▲ 4 ports PoE extender can forward both ethernet and PoE power for 4 terminal equipments via Cat5 UTP cables.
- ▲ 1 port PoE extender can forward both ethernet and PoE power for 1 terminal equipment via Cat5 UTP cable.

# Introduction of Product

## Applicable Range

- ▲ Used with AP, IP camera, IP telephone and the other network equipments in the situation of the lack of power line or far away from the power outlets.
- ▲ Installed at hotels, schools, buildings, villages, etc.

## Package contents

10/100M PoE Extender (4-Ports or 1-Port)
User Manual
Screw set (3.5x20mm, for 4-Ports PoE Extender only)

### **Note:**

1. Please don't place any heavy thing on the PoE Extender.
2. To prevent the water seeping into the extender, please keep PoE extender away from wet environment.
3. Suggest to use PoE extender indoors. When installing the extender in outdoor, please install it in a waterproof house.

## Power-Distance Chart

For 1-Port PoE Extender only

Load Power	Test Condition	Cascade Numbers	Extension Distance
3W	Power-in:DC56V; UTP Wire Resistance: 0.1R/m	5	700m
6W		4	520m
9W		3	440m
12W		2	360m

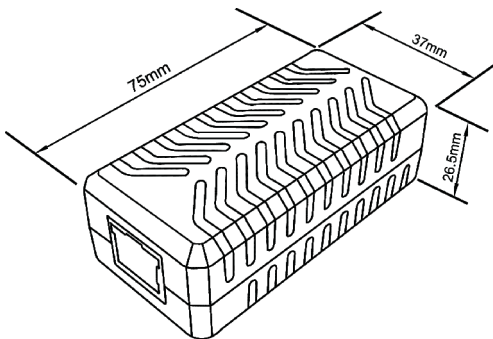
# Product Structure

## Indicator Status:

LED	Status	Color	Description
PoE	ON	Orange	PD is connected
	OFF	-----	
LINK/ACT	ON	Green	The port is connecting
	Blinks	Green	The port is receiving or transmitting data
	OFF	-----	No PD is connected or power forwarding fails

**Note:** For 1-Port PoE Extender, green and orange LEDs for output port are connected together to indicate LINK/ACT only.

Figure 1: Product Structure Diagram  
for 1-Port 10/100Mbps PoE Extender



# Product Structure

Figure 2: Product Structure Diagram  
for 4-Ports 10/100Mbps PoE Extender

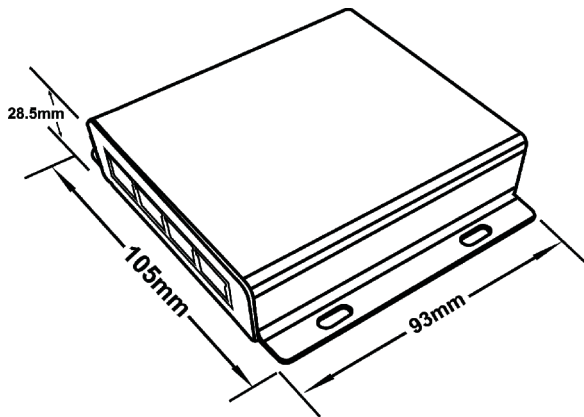
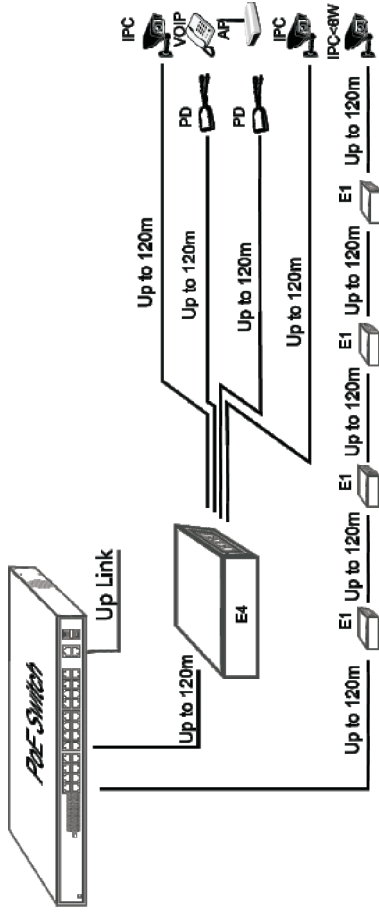


Figure 3: Connection Diagram



# Specifications

<b>Product Name</b>	1-Port 10/100M PoE Extender	4-Ports 10/100M PoE Extender
<b>Port Description</b>	PoE input: 1 RJ45 port PoE output: 1 RJ45 port	PoE input: 1 RJ45 port PoE output: 4 RJ45 ports
<b>Network Medium</b>	Cat5 or better UTP cables(≤120m)	
<b>Repeater Mode</b>	Store and forward	
<b>MAC Address Table</b>	2K	
<b>Packet Buffer Memory</b>	48K Byte	
<b>Switching Capacity</b>	400Mbps	1.0Gbps
<b>PoE Standard</b>	IEEE802.3af(power-in, 13W) IEEE802.3af(power-out, 12.2W-max)	IEEE802.3at(power-in, 25.5W) IEEE802.3af(power-out, 15.4W-max)
<b>PoE Port Power</b>	Input Power: 13Watts; Output: 12.2Watts	Input Power: 25.5Watts; Output: 15.4Watts for 1 port, 11.7Watts for 2 ports, 5.8Watts for 4 ports.
<b>LED Display</b>	PoE working status, ethernet	
<b>PoE Power Supply Type</b>	End-Span	
<b>Power Supply</b>	PoE power input: DC48V ~ DC57V	
<b>PoE Cable Core</b>	1 / 2 +, 3 / 6 -	
<b>Network Protocol</b>	IEEE 802.3i: 10BASE-T IEEE 802.3u: 100Base-TX IEEE 802.3x: Flow Control IEEE 802.3af: Power over Ethernet IEEE 802.3at: Power over Ethernet(for 4-Ports PoE Extender only)	
<b>Electromagnetic Radiation</b>	FCC Class A, CE	
<b>Environment</b>	Storage temperature: -10 to 70°C; Operating temperature: 0 to 40°C	Relative Humidity: 20~95%
<b>Dimension</b>	75x37x26.5mm	105x93x28.5mm

