

PT-PEX02GB PoE Extender
Quick Installation Guide



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Please do not dispose of the old product in your general household waste bin.



The symbol indicates that the product should not be discarded as unsorted waste but must be sent to separate collection facilities for recovery and recycling.

Overview

The installation Guide for PT-PEX02GB and mainly introduces the hardware specification, installation methods, and precautions of the installation. There may be differences in the appearance and configuration from other models. All product images in this manual are for illustration purposes only and may differ from the actual product.

This manual includes the following chapters:

1. Product Introduction. Including the basic functions and specification of PT-PEX02GB, as well as the product appearance and applications introduction.
2. Installation Introduction. Introducing the preparation work and precautions before installing the product.
3. Product Installation. Two methods of product installation.

For whom

Network Engineers
Network Administrators
Field Technicians

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1.Introduction

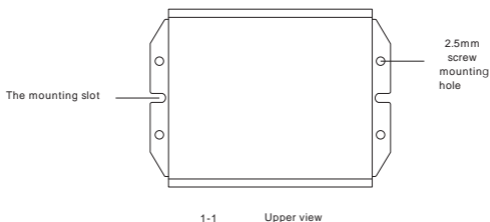
1.1 Introduction

PT-PEX02GB is an industrial-rated PoE Extender with two PoE output ports, specially designed for complex backhaul and networking applications. Enclosed in a high-impact metal shell. The 3 ports 10/100/1000Mbps includes: 1 x PoE-powered input port with 802.3bt/PoE++ at 60W or higher of 95W(Max) and 2 x PoE output ports with 6KV (10/700us) surge protection. Each output port delivers 30W(Max) power for remote two PDs, totaling up to 60W.

PoE Input port requiring more power which is powered by ultra 802.3bt PoE++ works with an input voltage of 44- 57Vdc and operates under -40 to +65 . Equipped detecting chip inside which will make the PoE identification handshake with IEEE802.3af/at/PoE+ PDs, such as wireless APs, IP cameras, base stations, Microwave radio, and other PoE power Ethernet backhaul devices. For planning purposes, the total effective distance from Ultra PoE to PDs is 200 meters over CAT5e/CAT6 cables without local power.

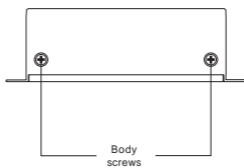
1.2 Appearance

- Upper view



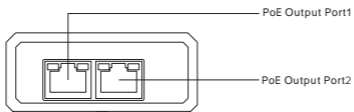
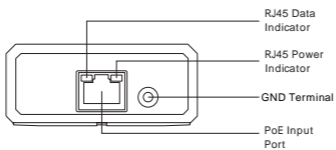
This product features one PoE input port and two PoE output ports, as well as two mounting tabs on either side. It can be used as an outdoor PoE extender by covering it with a waterproof case or as a standard dual-port PoE network switch.

• Side view



1-2 Side view

• Front view



1-3 Front view

Indicators Display:

Items	Status	Description
PoE load indicator	Solid	Good Power
Green Light	Flashing	Detection load
Data indicator	Solid	Good connection
Yellow Light	Flashing	Data transmitting
	OFF	System abnormal or power off

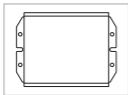
1.3 Specification

Items	Description
Input	44-57V 1.5A Max
Power pins	4/5(+),7/8(-),3/6(+),1/2(-)
Output	55V / 0.55A * 2Ports(Total 60W)
Power pins	3/6(+), 1/2(-)
Data speed	10/100/1000Mbps
Work temp.	-40 to 65
Operating Humidity	20%-80% , non-condensation
Operating Altitude	Up to 2000 meters
Storage Temp.8	-40 to 85
Storage Humidity	10%-95% , non-condensation
Network Protocol	IEEE802.3 / IEEE802.3u / IEEE802.3ab
Media support	10/100/1000BASE-TX Cat5 or above UTP (328 feet)
PoE Surge Protection	Protected line:1,2,3,4,5,6,7,8
	Common mode surge protection(10/700us): 6kV
	Differential mode surge protection (10/700us): 1.5KV
Regulatory Compliance	CE FCC
IP Rated	IP40
Dimensions	98.5mm x 70.27mm x 29.7mm (207.8g)
EMC	EN 55032:2015/A11:2020
	EN 55035:2017/A11:2020

2. Installation preparation

2.1 package contents

Open the box of the PT-PEX02GB and carefully unpack it, the box should contain the following items:



PT-PEX02GB



Ground lug
Wire&2.5
screw



Operation manual

2.2 Installation toolkit

These tools may be needed during equipment installation and should be prepared by yourself: level ruler, marking pen, craft knife, wires tripper, network pliers, impact drill, different matching drillbits, rubber hammer, cross screwdriver, wrench, ladder, etc.

2.3 Inspection

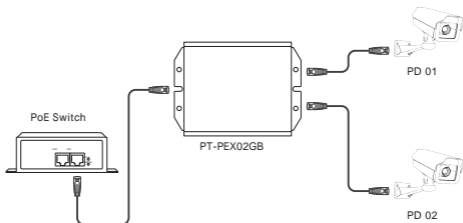
2.3.1 Connect the device to a PoE switch and check the PWR LED to ensure proper function before installation.

2.3.2 When using standard PoE power supply, the Ethernet cable needs to be connected to the PoE PD, such as a PoE camera, as shown in Figure 2-1



Caution :

Please use PoE power supply equipment that complies with corresponding standard to connect this product.



2-1 Device connection

Connect PoE IN to PoE switch, the yellow data indicator and green power indicator are on, while the connection is done.

Now you can connect the extender with PDs in two PoE output port. The yellow data indicator and green power indicator are on, and the PDs are successfully connected.



Caution :

- We recommend to use Cat5 or higher UTP/STP cables or 100 Base-TX Ethernet ;
 - We recommend to use Cat5e or above UTP/STP cables for 1000Base-T or 2.5GBase-T Ethernet.
-

To ensure better lightning protection for outdoor PD, it is recommended to use PROCET Ethernet surge protection products. For more information, please visit <http://www.procetpoe.com>

3.Installation

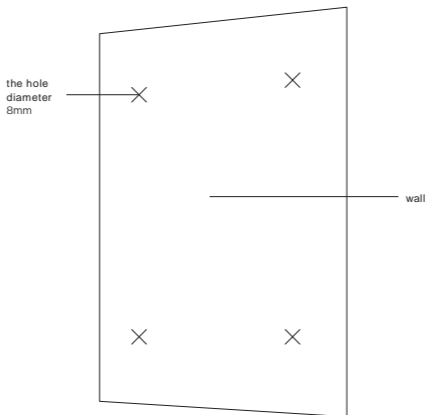
This product is safe to use for slot-fasten mounted and wall-mounted installation.

3.1 Wall mounting

The device will be fixed on the wall with screw into the poles, and the hole diameter should be between 8mm to10mm.

3.1.1Mark the screw hole positions with marking pens.

As showed in3-1.



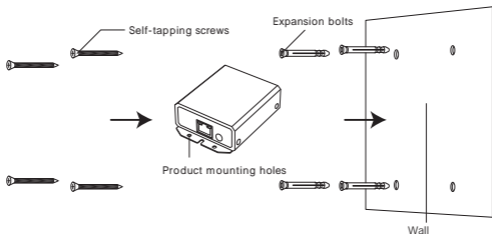
3-1

Marks for holes

3.1.2 Drill an 8mm diameter hole at the marked position and fix the expansion bolt into the hole by hitting it with a rubber hammer.

3.1.3 Fix the product with screws and tighten them into the expansion bolts.

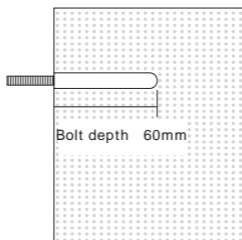
As showed in 3-2.



3-2 Installation

Caution in drilling process :

- keep the drill bit perpendicular to the wall surface, hold the drill handle tightly with both hands, maintain a steady direction to avoid shaking and damaging the wall or causing the hole to tilt.
- If the wall is too hard and smooth for the drillbit to locate, use a center punch to make an indentation at the hole position to help guide the drillbit.
- The depth of each hole should be consistent.



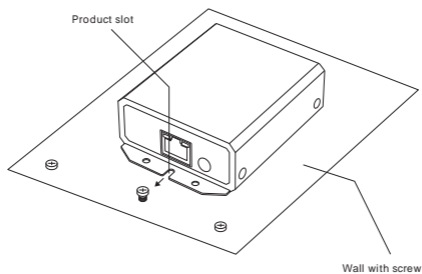
3-3 Bolt depth

3.2 Slot-fasten mounting

Use the slot-fasten mounting to fix the product on the wall with screws.

3.2.1 Loosen the screws and put the product slot into the screw.

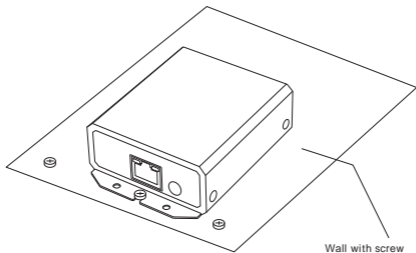
As showed in 3-4.



3-4 Slot-fasten mounting

3.2.2 Make sure the slot is fixed to the screws tightly and tighten the screws.

As showed in 3-5.

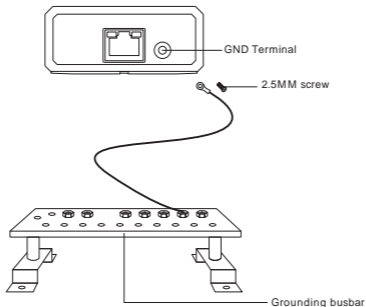


3-5 Slot-fasten installation

3.3 Grounding

PROCET outdoor dual-ports splitter PT-PEX02GB-OT has the following grounding solutions for reference during construction:

If the installation is in the computer room, it can be connected to the dedicated grounding busbar in the room. The grounding busbar is a connecting conductor between the grounding bodies of the building, such as flat iron, flat steel, nano material conductors, copper-clad steel, etc. Pls refer to the figure 3-6.



3-6 Grounding

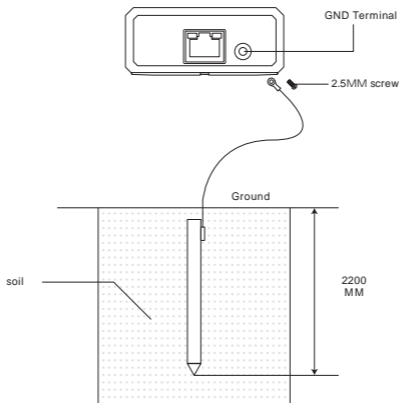
For the safety of personnel and equipment in an environment without dedicated grounding equipment, a simple grounding device can be constructed as follows:

- a. Prepare a 6mm² grounding wire or a braided soft copper wire.
- b. Prepare a copper tube or angle iron, or other metal tube, bury it underground to a depth of one meter or more as a grounding electrode.
- c. Use the grounding wire to connect the external grounding terminal of the product to the metal tube. (or angle iron)



Caution :

Use a galvanized metal pipe buried underground at a depth of one meter or more, such as a water or sewage pipe, as an emergency grounding if no other grounding environment is available.



3-7 Simple grounding

3.4 Inspection after installation

Inspect the installed equipment before putting it into operation :

- Make sure the PoE switch is compliant with our product.
- Make sure the Ethernet cable connection is correct.

Make sure all connections are correct, and turn on the power, inspect all the indicators.

Qualification Card

PASS