PROCET ®
PoE System

Indoor Single-Port PoE Extender

PT-PEX-01G

Product Overview

PT-PEX-01G is a single-port PoE extender with Aluminum alloy shell. It delivers 55Vdc(Typical), 1.1A power from PoE Injector/switch to remote PDs over full 4 pairs with 6KV (10/700us) surge protection. It supports 10/100/1000Mbps of date speed. It works with 60W(Max)PoE PDs, such as wireless APs, base stations, network cameras and other high power Ethernet terminals.
It supports terminal equipments with IEEE802.3af/at,PoE ++ standard.

PT-PEX-01G is designed for indoor use. It works with input voltage of 44-57Vdc from PoE injector/switch and operates under -40℃ to +65℃. On the input side, it connects to PoE injector or PoE switch, on the output side it connects to PDs. The total effective distance from PoE injector to PD is 200 meters by CAT5e/CAT6 cables without local power. It can work longer to 500 meters with adding 4 PoE extenders. It is easy to install with 2 mounting holes.
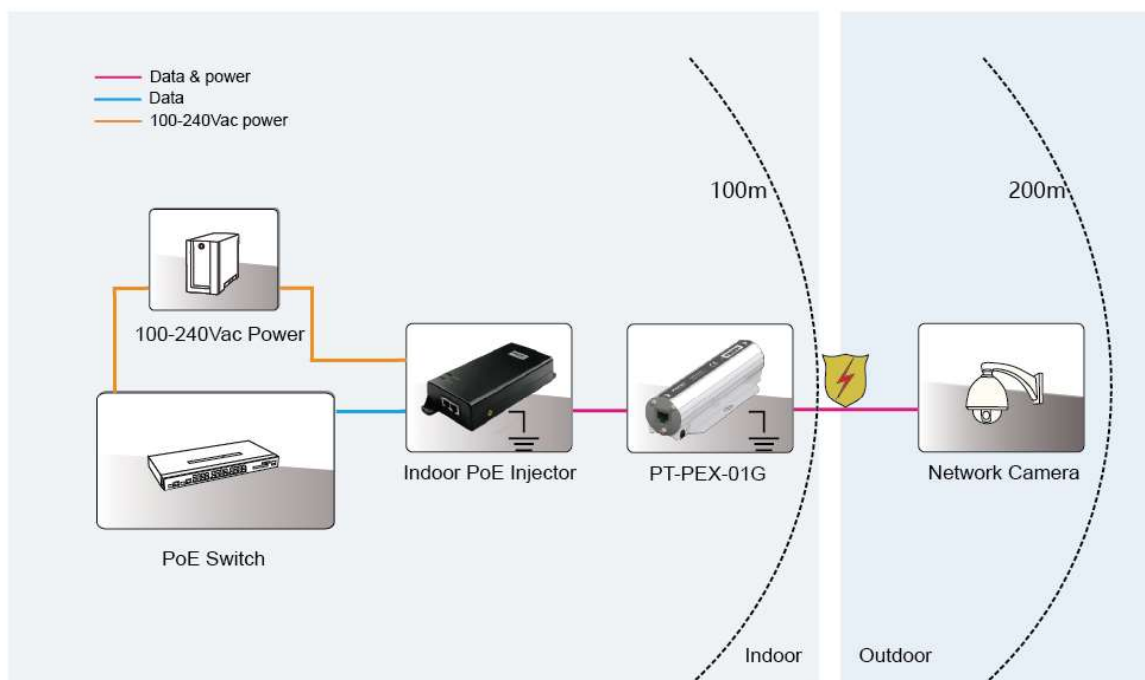
Product Profile

1 2 3

4 5

1. PoE Input Port
2. Earth

3.4. Mounting Hole
5.   PoE Output Port

Product Working Diagram

Specification

Standard

- IEEE802.3 10Base-T Ethernet
- IEEE802.3u 100Base-Tx Fast Ethernet
- IEEE802.3ab 1000Base-T Gigabit Ethernet
- Support equipments with IEEE802.3af/at,PoE++
- RoHS Compliance
- WEEE Compliance

Input & Output

- Operating Voltage :44-57Vdc(Max 60Vdc)
- Maximum Operating DC Current :1.1A for 4 pairs,
                                 maximum 60W
- Power Pins: 4/5(+), 7/8(-) and 3/6(+),1/2(-)
- Data Speed: 10/100/1000Mbps

Working Environment

- Operating Temperature: -40℃ to 65℃
- Operating Humidity: 20% to 80%, non-condensation
- Storage Temperature: -40℃ to 85℃
- Storage Humidity: 10% to 90%, non-condensation
- Operating Altitude: up to 5000meters

PoE Surge Protection

- Protected Line: 1,2,3,4,5,6,7,8
- Common Mode Protection Level(10/700us): 6KV
- Differential Mode Protection Level(10/700us): 1.5KV
- Clamping Voltage(Line to GND): 300V
- Clamping Voltage(Line to Line): 10V
- Insertion Loss @10MHz/100MHz：-1db
- Return Loss @10MHz/100MHz: -20db
- Response Time：5ns

Mechanical Characteristics

- Case: Aluminium alloy
- Color: White
- Mounting: Wall-mounted
- IP Rated: IP40
- Size: 156mm X 53mm X 38mm
- Weight: 250g

EMI

- FCC CFR47 Part 15, EN55024, EN55032

EMS

- IEC61000-4-2(ESD) ± 6kV(contact), ±8kV(air)
- IEC61000-4-3(RS) 10V/m(80MHz~2GHz)
- IEC61000-4-4(EFT) Power Port: ±2kV; Data Port:±1kV
- IEC61000-4-5(Surge) Power Port:±1kV/DM, ±2kV/CM
- IEC61000-4-6(CS) 10V(150kHz~80MHz)

Immunity

- IEC60068-2-6(Vibration)
- IEC60068-2-27(Impact)
- IEC60068-2-32(Free Fall)

Physical interface

- PoE input: RJ45
- PoE output: RJ45

Order Info.   PT-PEX-01G   44-57Vdc(Max 60Vdc)/60W/1000Mbps/6KV Surge Protection/Indoor use

Packing   PT-PEX-01G
                 Ground lug Wire: 16AWG
                 Manual x 1

Attention   There will be power loss after adding two or more extenders, but the output power can be up to 60W for
                 your PD with one extender