



## PT-PSE105G-E-10

### 10GbE Boost PoE Injector

#### Product Overview

PT-PSE105G-E-10 is a single-port, industrial-scale, boost PoE injector. It provides 55Vdc, 0.55A power for remote PDs over 2 pairs output with 6KV (10/700us) surge protection. It supports not only 10/100/1000Mbps of data speed, but also 2.5GbE/5GbE/10GbE NBase-T. It works for 30W PoE PDs, such as wireless access points, network cameras, VoIP phones and other high power Ethernet terminals. It fully complies to IEEE802.3af standard and also compatible to use with any 802.3af compliant terminals.

PT-PSE105G-E-10 is designed for indoor use. It works with input voltage of 12-48Vdc and operates under -40 °C to 65 °C. It has detection chip inside, which will detect and classify PD before powering it. It will not apply power until a standard-compliant PD is detected. The effective distance is 100m over Cat5e/Cat6 cables.

This model equipped standard DIN rail mounting bracket, which can easily jam into the guide rail.

#### Product Profile

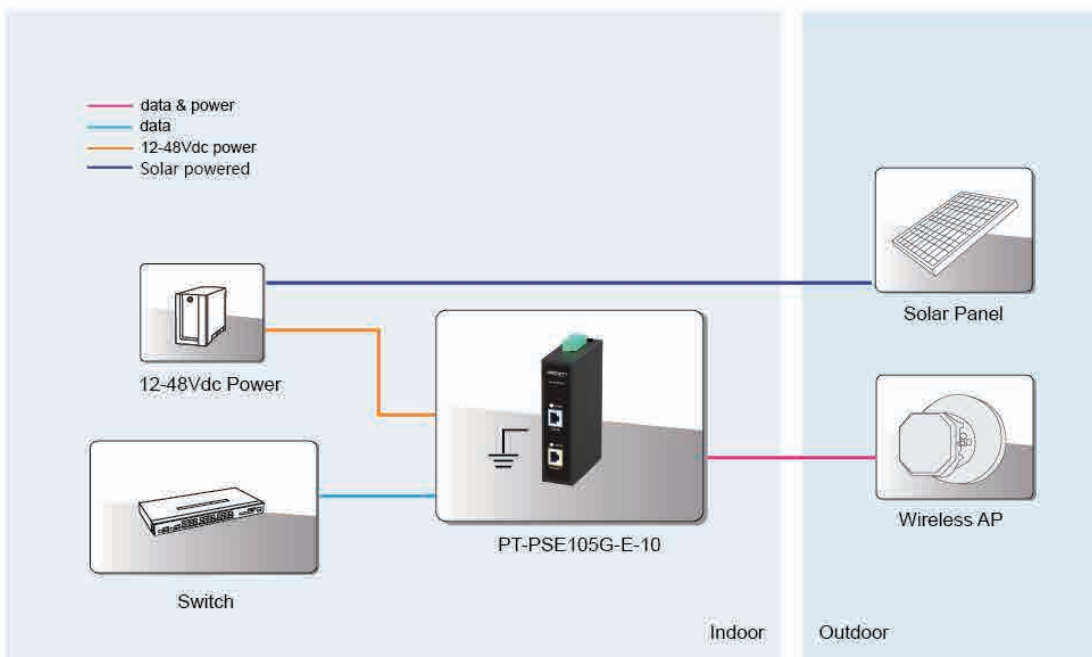


1. DC input indicator
2. LAN input port
3. PoE output port
4. PoE load indicator



5. DC Input Port
6. DIN Rail Mounting Bracket
7. Earth

#### Product Working Diagram



## Specification

### Standard

- IEEE802.3 10Base-T Ethernet
- IEEE802.3u 100Base-Tx Fast Ethernet
- IEEE802.3ab 1000Base-T Gigabit Ethernet
- IEEE802.3bz 2.5GbE/5GbE/10GbE NBASE-T
- Full compliant with IEEE802.3af/at
- RoHS Compliance
- WEEE Compliance

### Input & Output

- Input :12-48Vdc 4A
- Output: 55Vdc 550mA
- Power Pins: 4/5(+), 7/8(-)
- Data Speed: 10/100/1000Mbps & 2.5/5/10GbE

### 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 surge protection(10/700us): 6KV
- Differential mode surge protection (10/700us): 1.5KV

### Mechanical Characteristics

- Case: Metal
- Color: Black
- Mounting: DIN-rail
- IP Rated: IP40
- Size: 144.5mm X 95mm X 35.4mm
- Weight: 400g

### EMI

- FCC CFR47 Part 15, EN55024, EN55032

### EMS

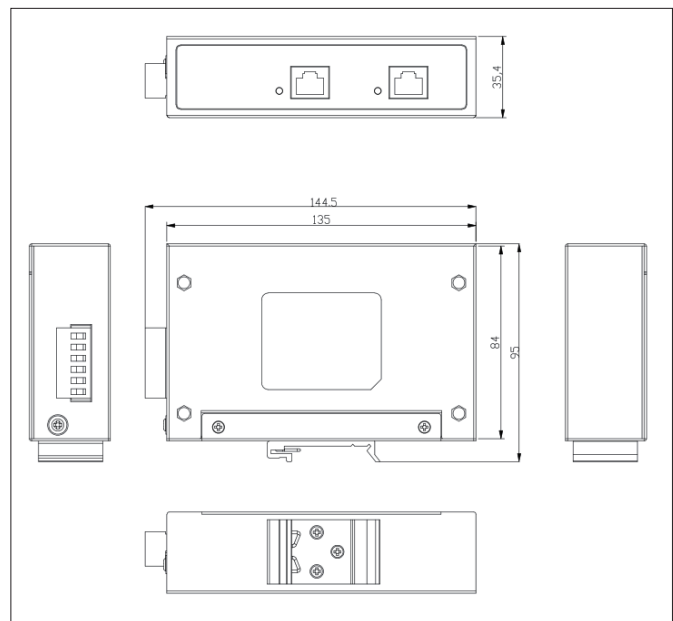
- IEC61000-4-2(ESD)  $\pm 6$ kV(contact),  $\pm 8$ kV(air)
- IEC61000-4-3(RS) 10V/m(80MHz~2GHz)
- IEC61000-4-4(EFT) Power Port:  $\pm 2$ kV; Data Port: $\pm 1$ kV
- IEC61000-4-5(Surge) Power Port: $\pm 1$ kV/DM,  $\pm 2$ kV/CM
- IEC61000-4-6(CS) 10V(150kHz~80MHz)

### Immunity

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

### LED Indicator

- Power Indicator : Green
- PoE Load Indicator : Yellow



**Order Info.** PT-PSE105G-E-10

Boost/55Vdc/0.55A/10Gbps/(4,5+,7,8-) /Surge Protection/Active

### Packing

PT-PSE105G-E-10  
Ground lug Wire: 16AWG  
Manual x 1

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