



# **User Manual: PC-INJ-95-BT Industrial PoE Injector**

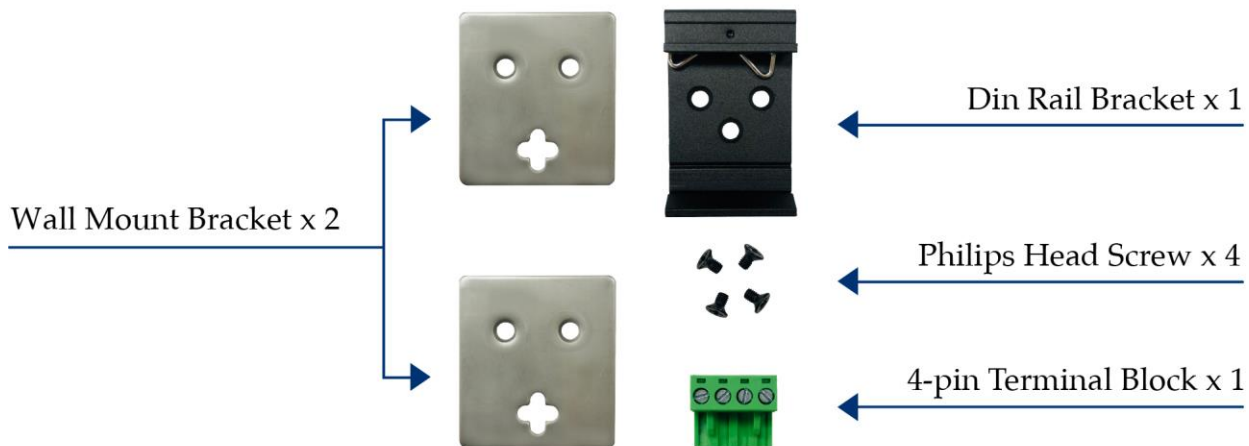
Version 7.2020

## Introduction

This ultrahigh power hardened multi-Gig PoE Injector is equipped with one IEEE 802.3af/at/bt 90W 10G PSE port to power up 90Watts PD device for camera, WiFi AP, or LoRa applications. This high power bt device is also backward compatible with both 95W PoH and 60W uPoE to be used as a general usage high power PoE product. This means that this unit can be used as a general purpose solution for many high power PoE applications. This unit is designed for high-power broadband WIFI, 802.3bt devices, and a broad range of applications where 1G network speeds are insufficient. This unit is designed for IP surveillance, traffic monitoring, outdoor camera and for a broad range of applications. It can tolerate -40°C to +75°C in harsh environment to perform a reliable network.

## Installation package

This unit can be din-rail mounted or wall-mounted. Din-rail brackets and wall-mounted brackets are included.



## Power connection

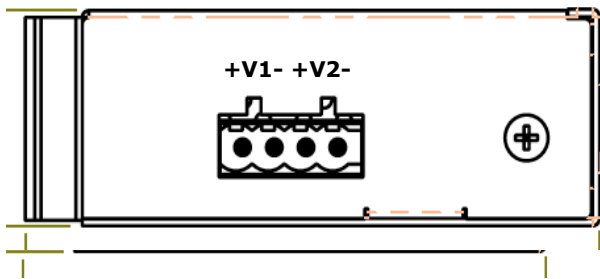
This unit provides a 4 pin terminal block. It can be operated using 52-56VDC power source. Always make sure your input voltage is within this supported voltage range.

**To connect power:** This unit supports two power inputs. Follow the printed polarity for +V1-, +V2- and ground. Connect positive wires to V+, connect negative wires to V-, and connect a neutral wire to the ground screw.

**+V1-** is for power input one connection.

**+V2-** is for power input two connection.

### Power connecting procedure:



STEP 1 – Take out 4 pin terminal block located in the included mounting kit package.

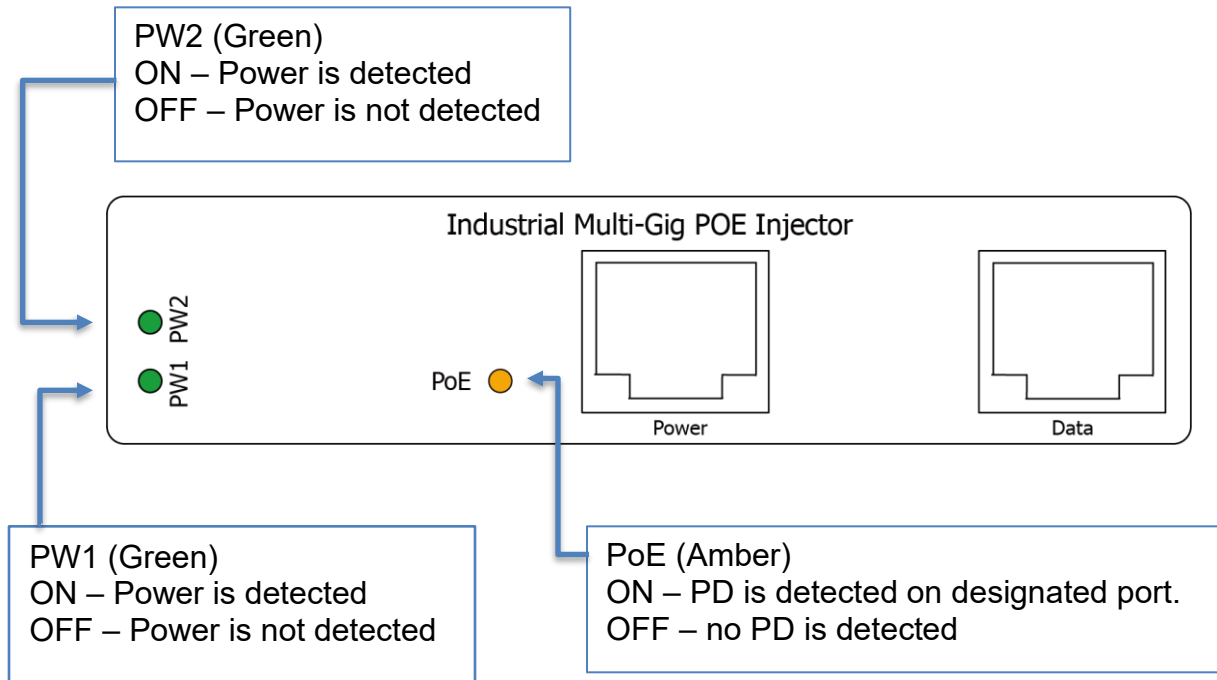
STEP 2 – Connect power wires to +V1- or +V2- with corresponding polarity. Connect the grounding wire to the ground screw.

STEP 3 – Plug into terminal block socket shown above. Polarity needs to match V+ and V-.

**WARNING** -- Always SHUT OFF power source to connect power wire.

**WARNING** -- Any exceeded input voltage will not make this unit function and may damage this unit.

## LED indicator



## Specifications

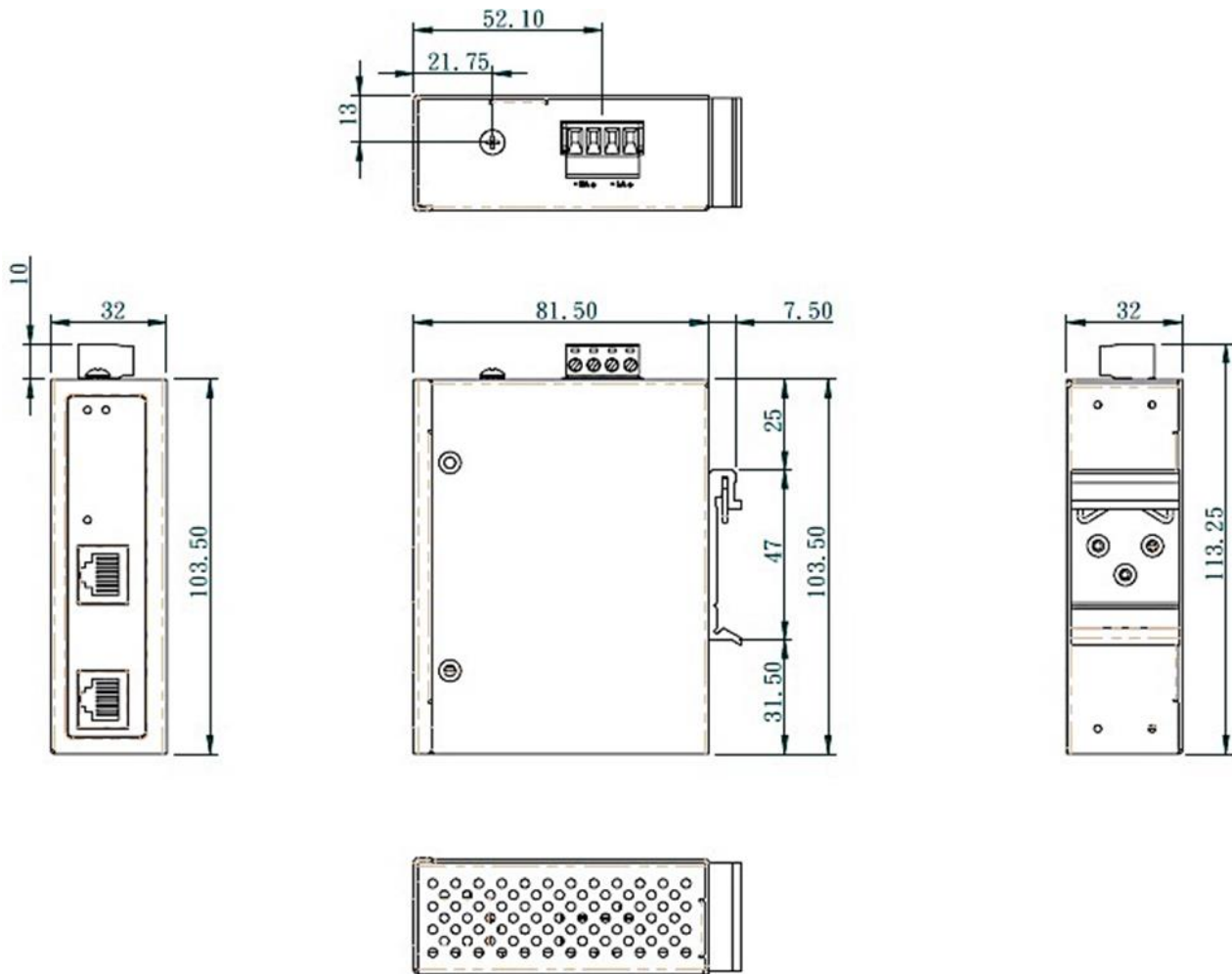
<b>IEEE Standard</b>	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000Base-T Gigabit Ethernet IEEE 802.3an 10GBase-T Ethernet IEEE 802.3af for POE IEEE 802.3at for POE+ IEEE 802.3bt Compliant with 60W uPoE standard Compliant with 95W Power over HDBaseT (PoH) standard
<b>Network Connector</b>	1xRJ-45 10M/100M/1000M/10GBaseT(X) Data 1xRJ-45 10M/100M/1000M/10GBaseT(X) Data with 90W POE Output Power
<b>Network Cable</b>	UTP/STP above Cat.5e Cable EIA/TIA-568 10-ohm (100m)
<b>Protocol</b>	CSMA/CD
<b>LED</b>	PW1 (Green): ON – Power is detected PW2 (Green): ON – Power is detected PoE (Amber): ON – 90W PSE is in active mode. OFF – PSE is in idle mode.
<b>POE Pin Assignment</b>	Pin 1 (V-), 2 (V-), 3 (V+), 6 (V+) Pin 4 (V+), 5 (V+), 7 (V-), 8 (V-)
<b>Reverse polarity protection</b>	Present
<b>Overload current protection</b>	Present
<b>Power Supply</b>	Redundant Dual DC 52V-56V Power Input
<b>Power Consumption</b>	1 W@52 VDC Without POE
<b>POE power</b>	Maximum POE power 90watts at 52VDC input
<b>Removable Terminal Block</b>	Provides 4 pin terminal block Wire range: 0.34mm <sup>2</sup> to 2.5mm <sup>2</sup> Solid wire (AWG):12-24/14-22 Stranded wire(AWG): 12-24/14-22 Torque:5lb-In/0.5Nm/0.56Nm Wire Strip length: 7-8mm
<b>Operating Temperature</b>	-40°C to 75°C
<b>Operating Humidity</b>	5% to 95% (Non-condensing)
<b>Storage Temperature</b>	-40°C to 85°C
<b>MTBF (mean time between failure)</b>	>500,000 hrs (Telcordia (Bellcore), GB) at 50°C
<b>Housing</b>	Rugged Aluminum, IP30 Protection
<b>Case Dimension (L X W X D)</b>	103.5 x 32 x 81.5 mm (L x W x D)
<b>Installation mounting</b>	DIN Rail Mount or Wall Mount

---

## Certifications

<b>Safety</b>	LVD(EN60950-1)
<b>EMC</b>	CE, FCC, EN 55032/24
<b>EMI</b>	CISPR 32, FCC Part 15B Class A
<b>EMS</b>	IEC 61000-4-2 ESD: Contact: 6KV; Air: 8KV IEC 61000-4-4 EFT: Power: 2KV; Signal: 2KV IEC 61000-4-5 Surge: Power: 2KV; Signal: 2KV
<b>Vibration</b>	EN 60068-2-6
<b>Shock</b>	EN 60068-2-27
<b>Free Fall</b>	EN 60068-2-32

## Housing Dimension (mm)



**NOTE:**

Housing dimension is for purpose of showing product Length, Width, Height, din-rail, and terminal block's position and dimension. Please reference the LED Indicator Page for correct port order.