



## **IGP-0102**

**Industrial Gigabit POE Injector, 802.3at PoE+, 36W, 12 to 56 VDC**

### **User Manual**



## **FCC MARKING**

This Equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received; including interference that may cause undesired operation.

## **CE MARKING**

This equipment complies with the requirements relating to electromagnetic compatibility, EN 55022 class A for ITE, the essential protection requirement of Council Directive 2004/108/EC on the approximation of the laws of the Member States relating to electromagnetic compatibility.

Company has an on-going policy of upgrading its products and it may be possible that information in this document is not up-to-date. Please check with your local distributors for the latest information. No part of this document can be copied or reproduced in any form without written consent from the company.

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## NOTE:

Always make sure the total length of the TX cable DOES NOT exceed 100meter. Total length is defined as length A + length B

**Length A + Length B < 100 meter**



**Maximum total cable length is 100meter.**

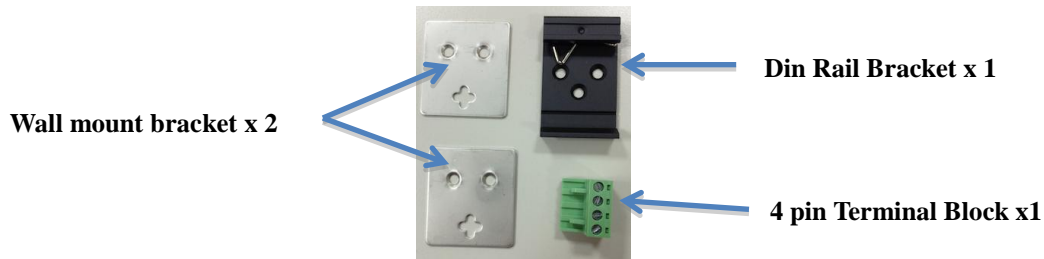
During 100Mbps transmission, the maximum total cable length is 100 meter.

During 1000Mbps speed transmission, recommend maximum cable length less than 90 meter is more desired.

POE signal attenuates every meter, the built-in transformer allows the attenuation to reach 100 meter long to follow IEEE802.3af / at standard. the higher quality of PD you connected to, the more reliable the network will be. When connect to a poor quality PD, it can not generate strong signal to send to remote switch. Always make sure you have a high quality PD to perform a desired network.

## Installation package

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

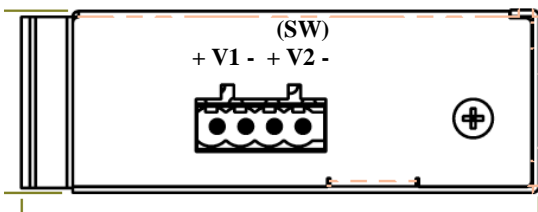


## Power connection

The provided 4 pin terminal block can be connected with 48VDC to 56VDC power source. Always Make sure your input voltage is within this supported voltage range.

To make power connection – Follow the printed polarity for V+, V-, Ground. Connect positive wire to V+ , connect negative wire to V-, also connect neutral wire to ground. This unit can be connected to two power input.

+V1- is for power input one connection,  
+V2-(SW) is for power input two connection.



## Connecting procedure

STEP 1 –

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

STEP 2 –

Connect power wire to +V1- or Connect +V2- (SW) as shown above

STEP 3 –

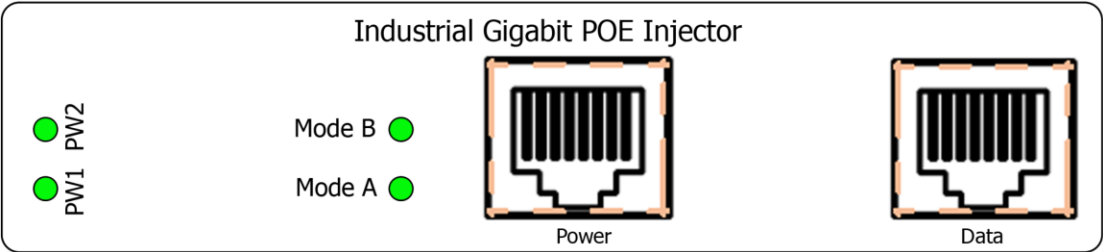
Plug into terminal block socket shown above. Polarity needs to match the V+ and V-

**WARNING** -- Always SHUTS 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

PW—Power 1, Power 2



Mode A Green LED ON --  
For End-Span POE power 1,2,3,6

NOTE:  
Mode B Green LED is only for Mode B End-Span model. with pin assignment 4,5,7,8. This LED will not lit on for this model.

## Specification:

<b>IEEE Standard</b>	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000Base-T Gigabit Ethernet IEEE802.3af for POE IEEE802.3at for POE+
<b>Network Connector :</b>	1xRJ-45 10/100/1000BaseT(X) Data 1xRJ-45 10/100/1000BaseT(X) Data with 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(power 1) Green: ON- power good, OFF- power failed PW2(power 2) Green: ON- power good, OFF- power failed POE: ON- POE Normal working, FLASH- Overload, OFF- NO POE power detected
<b>POE Pin Assignment</b>	Mode A model, V+, V+, V-, V- for pin 1, 2, 3, 6
<b>Reverse polarity protection</b>	Present
<b>Overload current protection</b>	Present
<b>Power Supply</b>	2 Redundant power source 12V~56V VDC Power Input
<b>Power Consumption</b>	1 W@12/24/48 VDC full load, Without POE
<b>POE power</b>	Maximum POE power 36watts at 12/24/48VDC input

<b>Removable Terminal Block</b>	Provide 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~75°C fully tested.
<b>Operating Humidity</b>	5% to 95% (Non-condensing)
<b>Storage Temperature</b>	-40°C~85°C
<b>MTBF (mean time between failure)</b>	510,304 hrs ( MIL-HDBK-217F) at 25°C
<b>Housing</b>	Rugged Metal ,IP30 Protection
<b>Case Dimension (L X W X D)mm</b>	103.5mmx32mmx81.5mm (LxWxD)
<b>Installation mounting</b>	DIN Rail mounting and Wall Mounting
<b>Certifications:</b>	
<b>EN55022/24</b>	ITE equipment
<b>Safety</b>	IEC EN60950-1
<b>EMC/EMS</b>	CE, FCC, VCCI
<b>EMI</b>	FCC Part 15 Subpart B Class A, CE EN 55022 Class A
<b>EN 50155 / EN 60068-2-6</b>	Vibration
<b>EN 50155 / EN 60068-2-27</b>	Shock
<b>EN 50155 / EN 60068-2-32</b>	Free Fall

# Housing Dimension

