

# **User Manual**

## **Industrial Gigabit IEEE 802.3bt PoE Splitter**

With 1 x 10/100/1000M TX for PoE In + 1 x 10/100/1000M TX for Data Out,  
Selectable 5VDC (5A), 6VDC (5A), 12VDC (5A) or 24VDC (2.5A) by Dip Switch (with 90W PoE input)

### **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 55032/35 class A for ITE, the essential protection requirement of Council Directive 2014/30/EU 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.

## Introduction

The Hardened PoE Splitter is equipped with 1 x 10/100/1000M TX PoE IN and 1 x 10/100/1000M TX for DATA OUT. It accepts input from 15W to 90W PSE. With a 90W input PoE power, the output voltage can be adjusted to 5VDC, 6VDC, 12VDC, or 24VDC using a dip switch for 2.5A or 5A current.

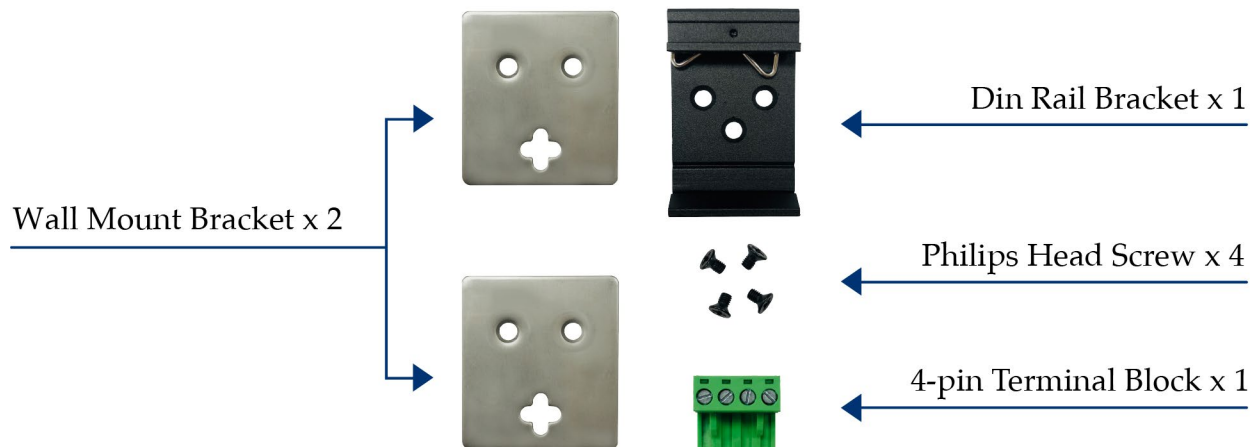
This device is designed for environments where a DC power source is not available or whenever the situation requires power and data to be split from another PoE device.

This PoE splitter is built to withstand harsh industrial environments, with an operating temperature range of -40 to +75°C.

Overall, this device is a durable and efficient PoE splitter that can be used in various industrial applications.

## Installation package

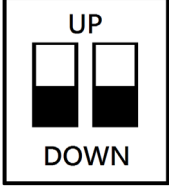
This unit can be din-rail or wall mounted. Din-rail brackets and wall mount brackets are included.



## Dip switch

DC voltage output can be adjusted by dip switches as shown below. This unit is capable to deliver 5/6/12/24 VDC.

Table shown as below is the features of these Dip-Switch function. You may change the Dip-Switch setting to your desired environment.

 1 2	DIP1	DIP2	Output voltage / Output current
	UP	UP	24VDC / 2.5A (default)
	DOWN	UP	12VDC / 5A
	UP	DOWN	6VDC / 5A
	DOWN	DOWN	5VDC / 5A

**WARNING – Always SHUT OFF power source first then adjust the Dip Switch**

## Power connection

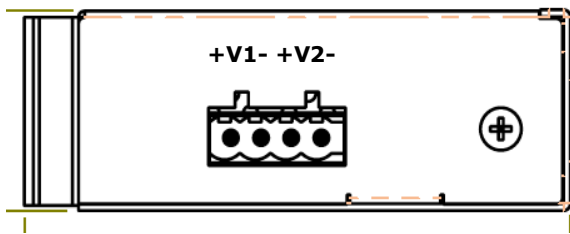
This unit provides a 4 pin terminal block with 2 sets of power: +V1- and +V2-. V1+ and V2+ are from the same node, and V1- and V2- are from the same node. This means that if you connect to V1+, you can connect to either V1- or V2- to form a complete circuit.

This unit can be operated using 15W~90W PoE power input source. Always make sure your input power is within this supported voltage range.

To connect power: Follow the printed polarity for V+, V- and Ground. Connect positive wires to V+, connect negative wires to V- and connect neutral wire to ground.

+V1- is for power output one connection.

+V2- is for power output two connection, this unit supports two power output.



### Connecting procedure:

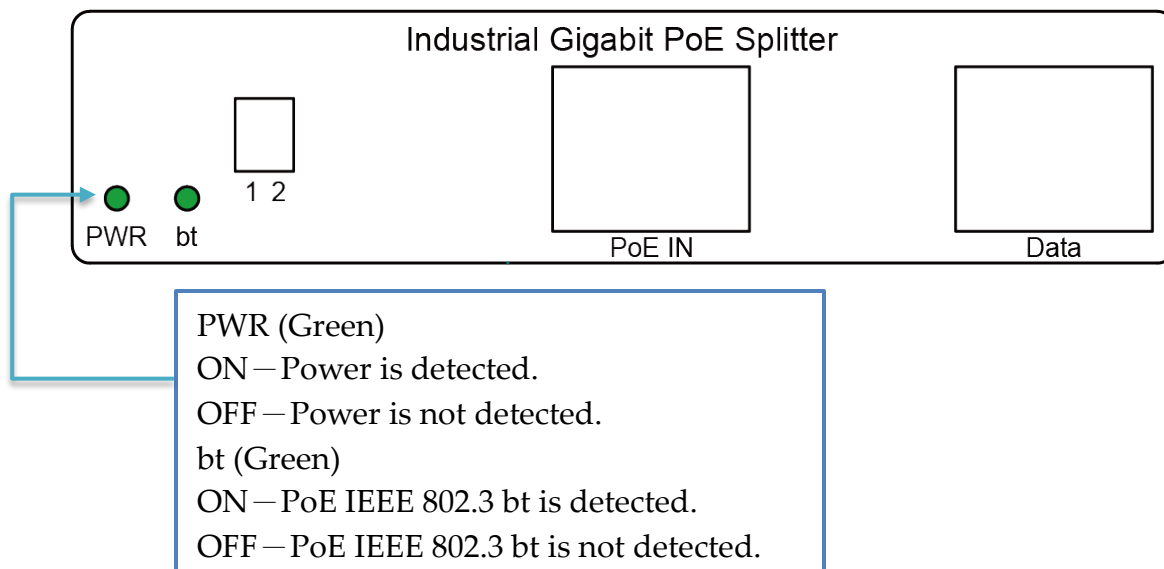
STEP 1 – Take out 4 pin terminal block located in the included mounting kit package

STEP 2 – Connect power wire to +V1- and/or +V2- with correct polarity

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.**

## LED indicator



## Specification

<b>Ethernet Standard</b>	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000Base-T Gigabit Ethernet
<b>PoE Standard</b>	IEEE 802.3af PoE IEEE 802.3at PoE+ IEEE 802.3bt PoE++ Compliant with 60W uPoE standard Compliant with 95W Power over HDBaseT (PoH) standard
<b>Network Connector (RJ-45)</b>	1 x Gigabit TX port for PoE IN 1 x Gigabit TX for Data OUT
<b>Network Cable</b>	UTP/STP Cat.5e or above Cable
	EIA/TIA-568 (100m)
<b>Protocol</b>	CSMA/CD
<b>LED</b>	PWR (Green) ON – Power is detected. OFF – Power is not detected. bt (Green) ON – PoE IEEE 802.3bt is detected. OFF – PoE IEEE 802.3bt is not detected.
<b>DIP Switch 〈DIP1/DIP2〉</b>	PoE 90W input for: 〈UP/ UP〉 24VDC / 2.5A (default) 〈DOWN/ UP〉 12VDC / 5A 〈UP/ DOWN〉 6VDC / 5A 〈DOWN / DOWN〉 5VDC / 5A
<b>Overload current protection</b>	Present
<b>Power Consumption</b>	1.5 Watts
<b>PoE power input</b>	15W/30W/60W/90W PoE power input
<b>Power Output 〈V1, V2〉</b>	2 Power outputs - V1, V2 24VDC 12VDC 6VDC 5VDC
<b>Removable Terminal Block</b>	Provide 4 pin terminal block for power output 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>	609,675.83 hours (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 and Wall Mount options included
<b>Certifications</b>	
<b>Safety</b>	UL 60950-1
<b>EMC</b>	CE, FCC, EN 55032/35
<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)

