

# User manual

Hardened Industrial 16 port Gigabit PoE Switch, 16 x 10/100/1000 TX 30W PSE,  
48-56VDC input voltage, operating temp.: -40°C to +75°C

## 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.

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Trademarks:

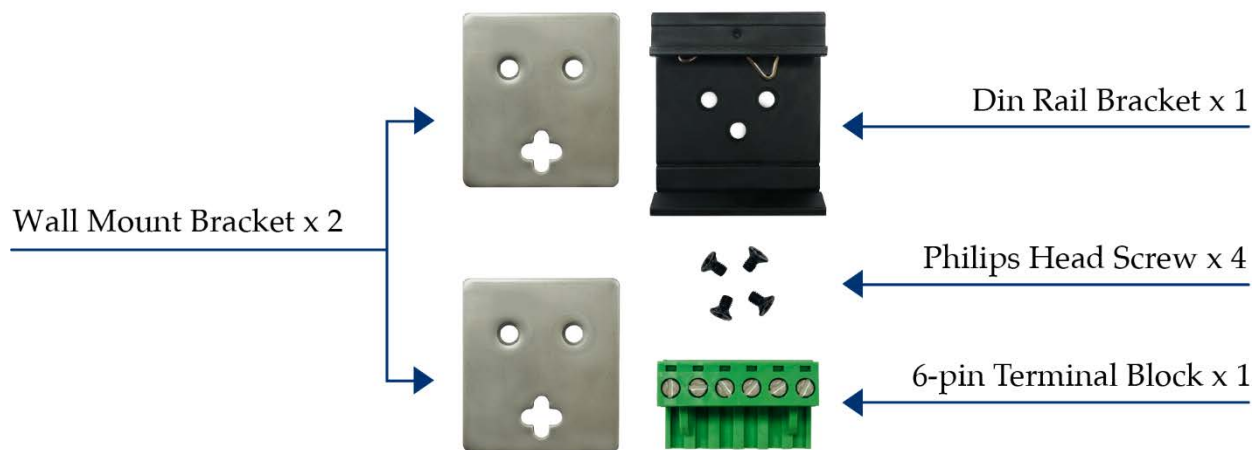
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## **Introduction:**

This Industrial PoE switch is designed with Hardened Ethernet controller and Hardened PoE controller to ensure performance in harsh environment. It is equipped with 16 ports 30Watts Giga TX PSE and can deliver up to 300Watts of power to your PD devices. All ports are independent, with a total of 16 ports for easy expansion of your network application. With our Cold-Design technology, it will not only power up your PD but also reduce its excessive heat to a minimum. It has been rigorously tested for your security, surveillance, and telco applications.

## Installation package:

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



## Power connection

This unit provides a 6 pin terminal block. PoE functions can be operated from 48-56VDC power input. Always make sure your input voltage is within this supported voltage range for each model.

**WARNING** – any exceeded input voltage will not make this unit function and may damage this unit.

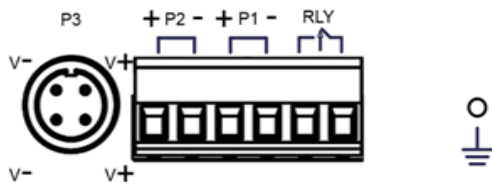
This unit comes with 3 power input sources. P1, P2, and P3.

**To connect power:** Follow the printed polarity for P1+, P1-, P2+, P2-, and ground. Connect positive wires to P1+ and/or P2+, connect negative wires to P1- and/or P2-, and connect the neutral wire to the ground screw as shown.

**Power DIN:** This unit contains an extra P3 port for power DIN. This power DIN can power the unit via external power adapter.

**Relay:** This unit includes an additional 24V@1A relay circuit for special purpose. When 2 powers are connected, the relay is in OPEN mode. If only one of the power sources is connected, the relay changes to SHORT mode. This relay will only work with P1 and P2. It is independent from P3.

## Power connecting procedure:



STEP 1 – Pull out 6 pin terminal block.

STEP 2 – Connect wire to P1+, P1-, P2+, P2-, and the neutral wire to the ground screw.

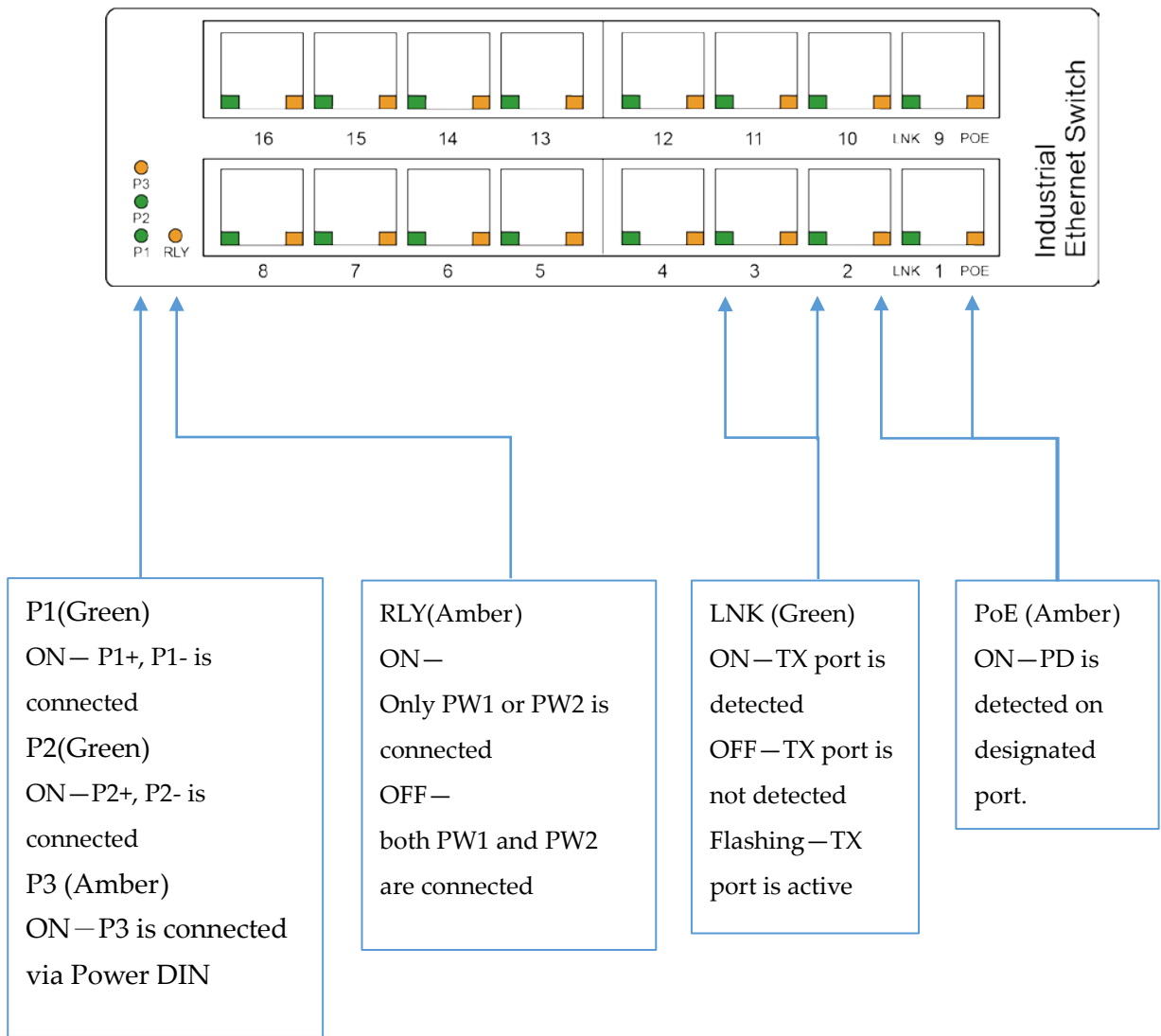
STEP 3– Plug connected 6 pin terminal block back into place.

Or, Connect the P3 power DIN from external power adapter.

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

**WARNING** -- Always ground the power source to maintain a clean power input. Cheaply made power supplies create too much noise and will cause the power input to fluctuate when connected to this unit. To avoid this, always ground the power source to maintain a clean power input.

# LED indicator





<b>PoE Power</b>	PoE power per port 30watts. Maximum total power 300Watts with 56VDC input, Supports IEEE 802.3af/at
<b>Removable Terminal Block</b>	Provide 2 Redundant power , Alarm relay contact ,6 Pin 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>	449,232 hrs (Telcordia (Bellcore), GB) at 50°C
<b>Housing</b>	Rugged Metal, IP30 Protection
<b>Case Dimension</b>	155 x 48 x 120 mm (LxWxD)
<b>Installation</b>	DIN Rail Mount or Wall Mount
<b>Certifications:</b>	
<b>Safety</b>	UL 60950-1
<b>Safety</b>	LVD (EN 62368-1)
<b>EMC</b>	CE, FCC, EN55032/35, VCCI
<b>EMI</b>	CISPR 32, FCC Part 15 Subpart B 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)

