



**User Manual: PC-PITE502-2**  
**Industrial 7 port Gigabit Switch with PoE++**

Version 06.2026

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## Introduction

This Industrial PoE++ Switch is equipped with 4 x Gigabit TX IEEE802.3bt 90W PSE + 1 x Gigabit TX + 2 x Gigabit SFP ports. This unit was designed for IP surveillance, traffic monitoring, and for a broad range of applications. It's reliable and able to withstand more abuse. It has been rigorously tested for your security, transportation, and telco applications. It can be used as a stand-alone device or can be cascaded/daisy-chain to other devices to cover a wider area through SFP connection

## Installation package

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

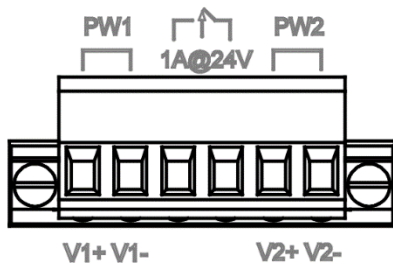
**NOTE – If your application necessitates a change of the mounting method, please ensure that all holes are securely fastened with screws to maintain the enclosure's IP50 rating**

## Power connection

This unit provides a 6-pin terminal block. It can be operated using 12-56VDC 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+, V1-, V2+, V2- and ground. Connect the positive wires to V1(2)+, connect the negative wires to V1(2)-, and connect a wire from the unit's chassis ground to the earth ground.

RELAY: This unit includes an additional 1A@24V relay circuit for special purposes. 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.



### Power Connecting Procedure:

STEP 1 – Pull out the 6-pin terminal block.

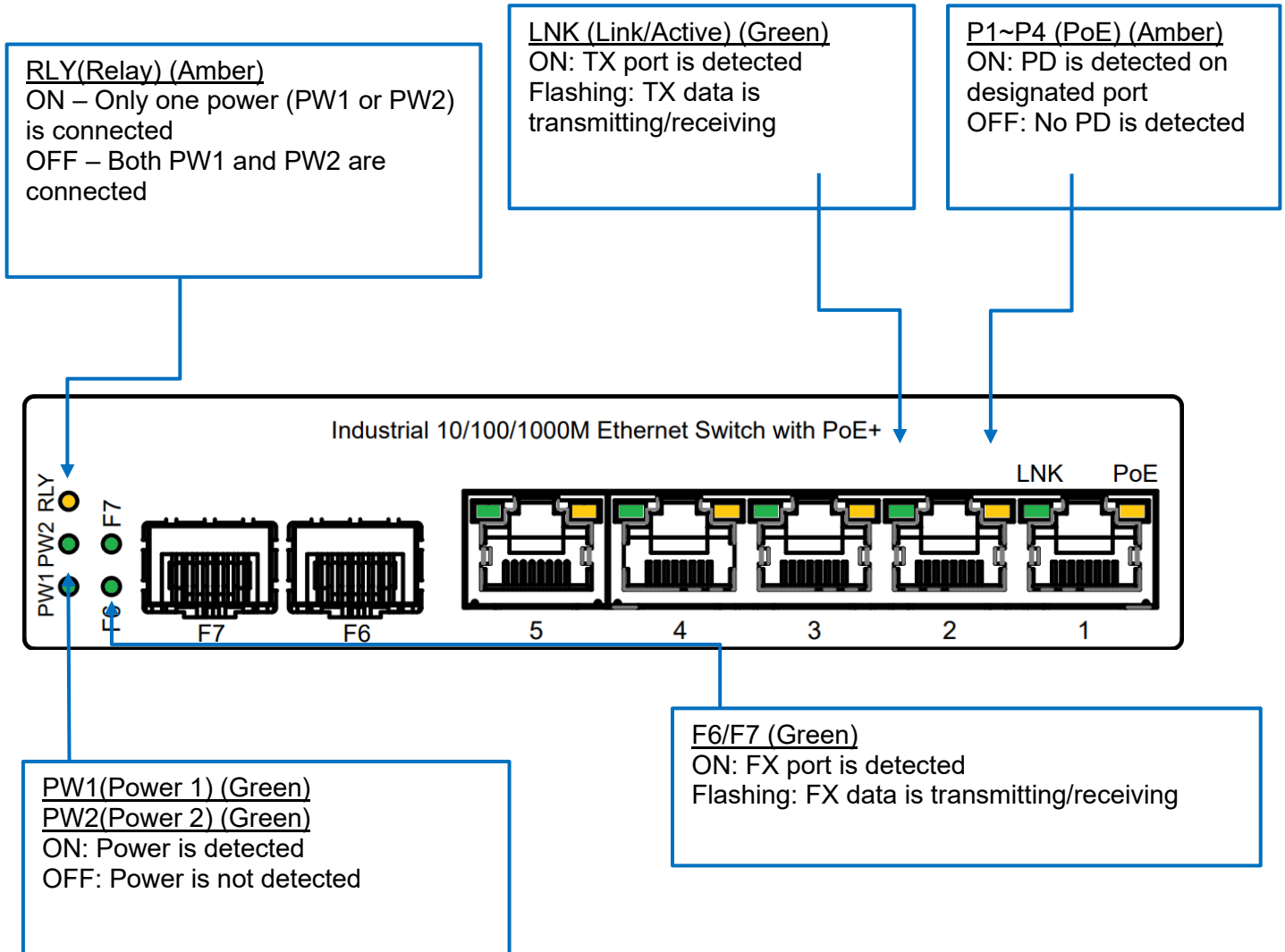
STEP 2 – Connect wire to V1+, V1-, V2+, V2- and Ground.

STEP 3 – Plug the connected 6-pin terminal block back to its place and fasten the screws.

**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



## 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 802.3z 1000Base-X Gigabit Ethernet IEEE 802.3x Flow Control and Back Pressure IEEE 802.3af PoE IEEE 802.3at PoE+ IEEE 802.3bt PoE++
<b>Switch Architecture</b>	Back-plane (Switching Fabric): 14 Gbps
<b>Data Processing</b>	Store and Forward
<b>Flow Control:</b>	IEEE 802.3x Flow Control and Back Pressure
<b>Jumbo Frame</b>	9 KB
<b>MAC Address Table Size</b>	4 K
<b>Packet Buffer Size</b>	2 Mbits
<b>Network Connector</b>	5 x RJ-45 10/100/1000BaseT(X) auto negotiation, Auto MDI/MDI-X function, Full/Half duplex 4 x Gigabit 802.3af/at/bt PSE port 2 x SFP 1000M BaseX
<b>Network Cable</b>	UTP/STP Cat.5e or above Cable EIA/TIA-568 (100m)
<b>Protocol</b>	CSMA/CD
<b>LED</b>	<p><b>PW1(Power 1) (Green)</b>  <b>PW2(Power 2) (Green)</b>  ON: Power is detected  OFF: Power is not detected</p> <p><b>RLY(Relay) (Amber)</b>  ON – Only one power (PW1 or PW2) is connected  OFF – Both PW1 and PW2 are connected</p> <hr/> <p><b>TX/RJ-45 port:</b>  <b>LNK (Link/Active) (Green)</b>  ON: TX port is detected  Flashing: TX data is transmitting/receiving</p> <p><b>P1~P4 (PoE) (Amber)</b>  ON: PD is detected on designated port  OFF: No PD is detected</p> <hr/> <p><b>SFP Fiber port:</b>  F6/F7 (Green)  ON: FX port is detected  Flashing: FX data is transmitting/receiving</p>

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<b>Reverse Polarity Protection</b>	Present
<b>Overload Current Protection</b>	Present
<b>Power Input</b>	Redundant Dual DC 52V-56V Power Input
<b>Alarm Relay Contact</b>	Relay outputs with current carrying capacity of 1 A @24VDC, Relay in open circuit mode when 2 powers are connected, in short circuit mode when only one power supply is connected
<b>Power Consumption</b>	4.48 W@56 VDC full load, Without PoE
<b>PoE power</b>	PoE power per port 90 watts. Maximum total power 240 Watts @56VDC power input
<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 Stranded wire (AWG): 12-24 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>	512,068.1224 hrs (Telcordia (Bellcore), GB) at 50°C
<b>Housing</b>	Rugged Aluminum, IP50 Protection
<b>Case Dimension (L X W X D) mm</b>	142 x 36.2 x 105 mm (L x W x D)
<b>Installation mounting</b>	DIN Rail or Wall Mount

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## Certifications

<b>Safety</b>	LVD (EN62368-1)
<b>EMC</b>	CE (EN55032/EN55035), FCC
<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

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## 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 refer to the LED Indicator Page for correct port order.