



# **User Manual: PC-PITE502-GBTE Industrial Switch with PoE++**

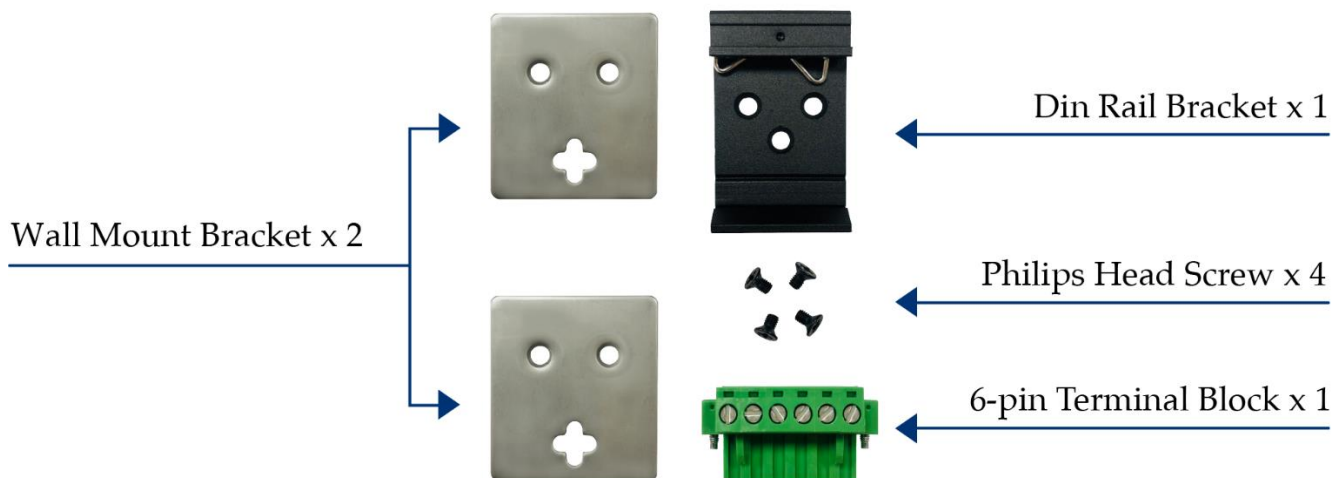
Version 1.2020

## Introduction

This super high-power Industrial Gigabit Switch is equipped with 4 x 60W Gigabit PSE ports to power up 4 x 60Watts PD, include outdoor speed dome, outdoor lamp, or high power PD devices. This unit has been designed especially for IP surveillance, traffic monitoring and for a broad range of applications. It can be used as a stand-alone device or can be cascaded/daisy-chain to other devices to cover wider area through the SFP connection.

## Installation package

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



## Power connection

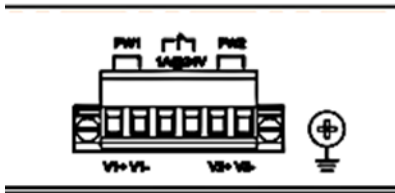
This unit comes with a 6 pin terminal block. It can be operated from 48-56VDC power source. Always make sure your input voltage is within this supported voltage range for each model

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

**To connect power:** Follow the printed polarity for PW1+, PW1-, PW2+, PW2-, and ground. Connect positive wires to PW1+ and/or PW2+, connect negative wires to PW1- and/or PW2-, and connect the neutral wire to the ground screw as shown.

**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 PW1 and PW2. It is independent from PW3.

### Power connecting procedure:



STEP 1 – Pull out 6 pin terminal block.

STEP 2 – Connect wire to V1+, V1-, or V2+, V2- and the neutral wire to the ground screw.

STEP 3 – Plug back 6 pin terminal block to its place.

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

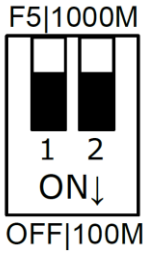
WARNING -- Always ground the power source to maintain a clean power input. Cheaply made power supplies create too much noise and will cause the power input to fluctuate when connect to this unit. To avoid this, always ground the power source to maintain a clean power input.

### Dip Switch Function

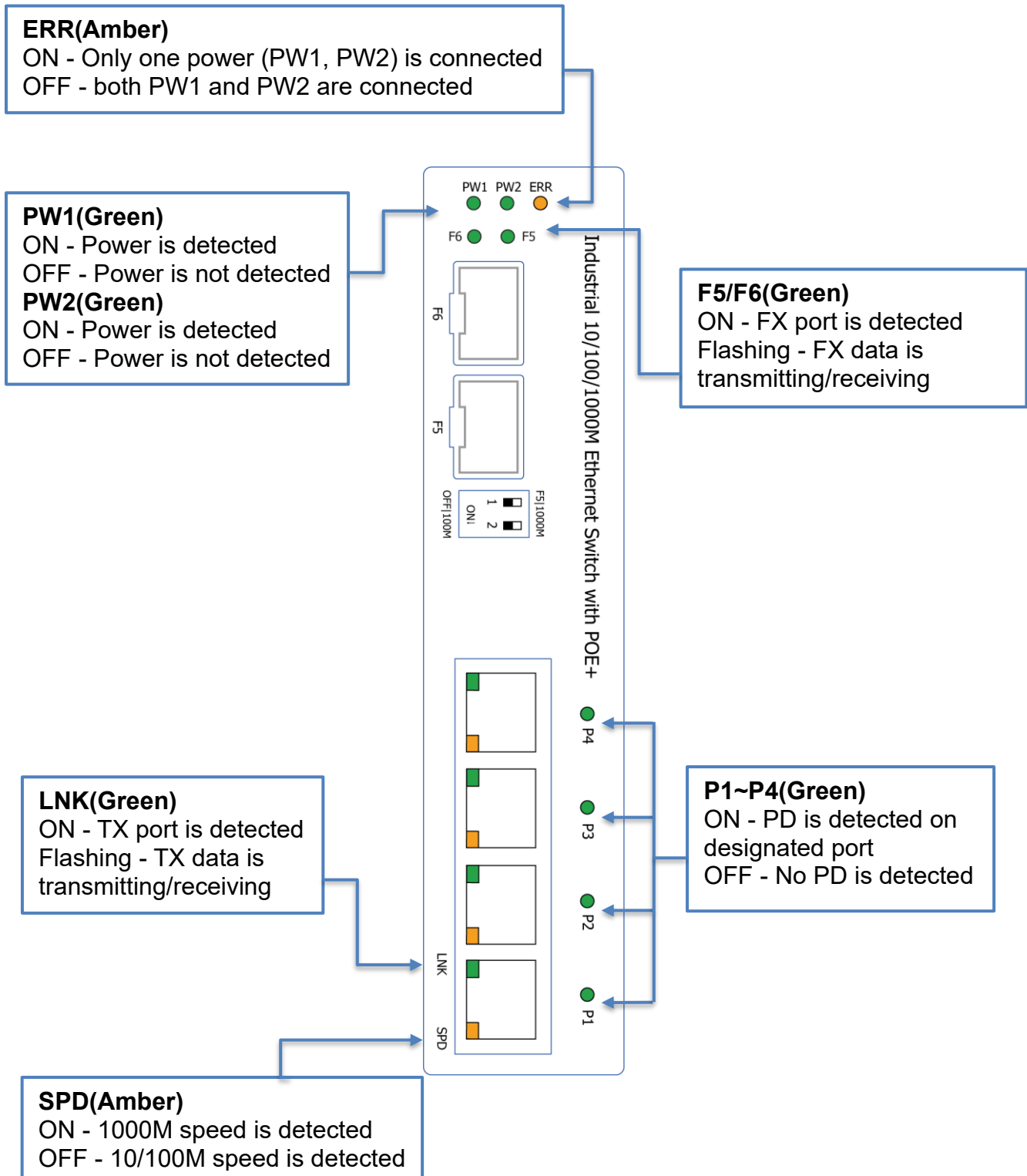
This unit is equipped with dip switches, located on the front panel. Adjusting the dip switches will change the functions of this unit.

The table below lists the features of the dip switch. You may change the dip switch setting based on your environment.

WARNING – Always SHUT OFF the power source before adjusting the Dip Switch

	<b>DIP 1</b>	F5	Port 5 SFP on(default)
		OFF	Port 5 SFP off
	<b>DIP 2</b>	1000M	SFP speed 1000M(default)
		100M	SFP speed 100M

## LED indicator



## Specifications

IEEE Standards	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 IEEE802.3x Flow Control and Back Pressure, IEEE802.3af for POE IEEE802.3at for POE+
Switch Architecture	Back-plane (Switching Fabric): 12Gbps
Data Processing	Store and Forward
Flow Control	IEEE 802.3x Flow Control and Back Pressure
Jumbo Frame	9KB
MAC address Table Size	1K
Packet Buffer Size	1M
Network Connector	4 x RJ-45 10/100/1000BaseT(X) auto negotiation, 4 x Gigabit 60Watts POE+ 802.3at/af PSE port 2 x SFP 100/1000M BaseX Auto MDI/MDI-X function, Full/Half duplex
Network Cable	UTP/STP above Cat.5e Cable
Protocol	CSMA/CD
LED	PW1(Power 1) Green, PW2(Power 2) Green, ERR( Fault ) Amber  TX/RJ-45 port: LNK (Link/Active) Green, SPD(Speed) 10/100(OFF) ,1000 (Green)  SFP Fiber Per port: Link (Green) Active Flash
DIP Switch	DIP 1: F5: Port 5 SFP ON(DEFAULT) OFF: Port 5 SFP OFF DIP 2: 1000M: SFP 1000M (DEFAULT) 100M: SFP 100M
Reserve polarity protection	Present
Overload current protection	Present
Power Supply	Redundant Dual DC 48V-56V Power Input POE input 48-56VDC
Power Consumption	5.76W@48 VDC full load, Without POE Max total power 240 Watts,

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	Max power per port 60Watts
Alarm Relay Contact	Relay outputs with current carrying capacity of 1 A @24VDC, Relay in short circuit mode when 2 powers are connected. in open circuit mode when only one power supply is connected
POE power	POE power per port 60watts. Maximum total power 240Watts. Supports IEEE802.3af/at
Removable Terminal Block	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
Operating Temperature	-40°C ~75°C fully tested.
Operating Humidity	5% to 95% (Non-condensing)
Storage Temperature	-40°C ~85°C
MTBF (mean time between failure)	>500,000 hrs (MIL-HDBK-217F) at 25°C
Housing	Rugged Aluminum, IP30 Protection
Case Dimension (L x W x D)	142 x 43 x 105 mm (L x W x D)
Installation mounting	DIN Rail and Wall Mount options included

## Certifications

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Safety	IEC EN60950-1
EMC/EMS	CE, FCC, VCCI
EMI	FCC Part 15 Subpart B Class A
Vibration	EN 60068-2-6
Shock	EN 60068-2-27
Free Fall	EN 60068-2-32

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## Housing Dimension (mm)

