User Manual: PC-PIGE500-GBTE
# Industrial Switch with PoE+

Version 12.2020

Introduction

This switch is rated compact size IP30 and installation by DIN RailTthis industrial gigabit unmanaged Ethernet switch has 5*10/100/1000Tx with 4*IEEE 802.3at compliant ports (30W/port), suitable for applications that require high bandwidth communication.
In order to prevent unregulated voltage, this series provides high EFT and ESD protection. This also allows it to function in harsh environments, as well as support power redundancy with a dual power input design with reverse polarity protection.
With an operating temperature -40°C ~ 75°C, this switch is designed to meet any needs for industrial automation, transportations, IP surveillance application and harsh environments.

Installation package

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

Wall mount bracket x 2

6 pin Terminal Block x1

Philips Head Screw x 4

Din Rail Bracket x 1
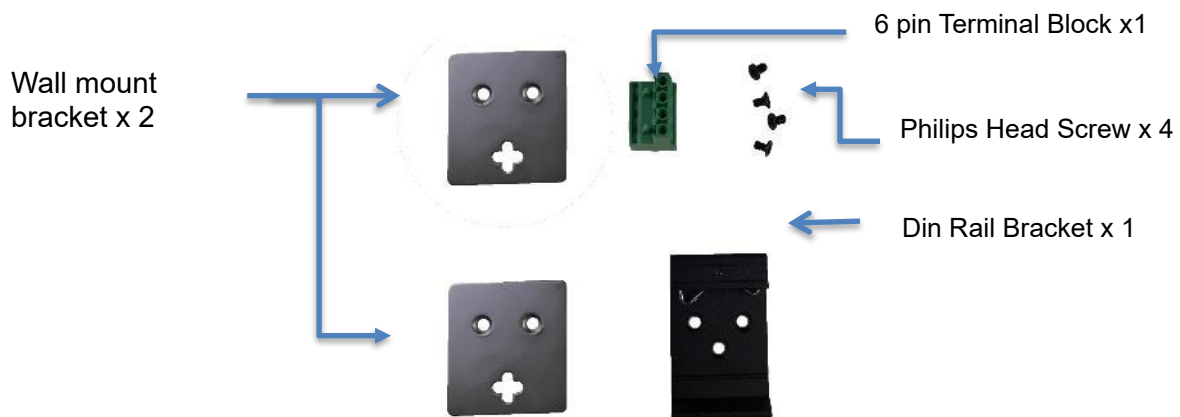
Power connection

If the DC voltage is supplied by an external circuit, please use a protection device on the power supply input. Supply by UL Listed industrial use power. The industrial Ethernet switch's hardware specs, ports, cabling information, and wiring installation will be described within this user manual

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.*

Please follow the below steps to insert the power wire.

Step 1.
Insert the positive and negative wires into the PWR1 (V1+, V1-) and PWR2 (V2+, V2-) contacts on the terminal block connector as shown in the Figure below.

Step 2.
Tighten the wire-clamp screws to prevent the wires from loosening, as shown below in Figure 2.15.

Note: Only use copper conductors, 60/75°C, tighten to 5 lbs.
          The wire gauge for the terminal block should range between 18~20 AWG.

LED indicator

There are LED light indicators located on the front panel of the industrial Ethernet switch that display the power status and network status. Each LED indicator has a different color and has its own specific meaning, see below.

LED	Color		Description
PWR	Green	On	Power input 1 or 2 is active
		Off	Power input 1 and 2 is inactive
LAN Port LINK/ACT/SPEED	Green	On	Connected to network, 1000Mbps
		Flashing	Networking is active
		Off	Not connected to network
	Green	On	Connected to network, 10/100Mbps
		Flashing	Networking is active
		Off	Not connected to network
PoE 1-4	Green	On	The port is supplying power to the powered-device
		Off	No powered-device attached or power supplying fails

Ethernet Ports

The RJ-45 ports are auto-sensing for 10Base-T, 100Base-TX or 1000Base-T devices connections. Auto MDI/MDIX means that the switch can connect to another switch or workstation without changing the straight-through or crossover cabling.

DIN Rail mounting

The DIN-Rail is pre-installed on the industrial Ethernet switch from the factory. If the DIN-Rail is not on the industrial Ethernet switch, please see the Figures below to learn how to install the DIN-Rail on the switch.

Follow the steps below to learn how to hang the industrial Ethernet switch.

Step 1.
Use the screws to install the DIN-Rail bracket on the rear side of the industrial Ethernet switch.

Step 2
To remove the DIN-Rail bracket, do the opposite from Step 1.

Step 3
After the DIN-Rail bracket is installed on the rear side of the switch, insert the top of the DIN-Rail on to the track as shown below.

Step 4
Lightly pull down the bracket on to the rail as shown below in Figure 3.3.

Step 5
Check if the bracket is mounted tightly on the rail.

Step 6
To remove the industrial Ethernet switch from the rail, do the opposite from the above steps

Wall mounting

Follow the steps below to mount the industrial Ethernet switch using the wall mounting bracket.

Step 1.
Remove the DIN-Rail bracket from the industrial Ethernet switch by loosening the screws.

Step 2.
Place the wall mounting brackets on the top and bottom of the industrial Ethernet switch.
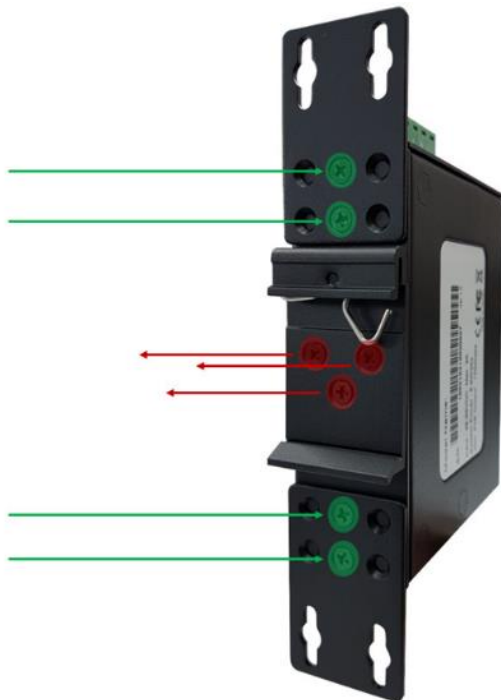
Step 3.
Use the screws to screw the wall mounting bracket on the industrial Ethernet switch.

Step 4.
Use the hook holes at the corners of the wall mounting bracket to hang the industrial Ethernet switch on the wall.

Step 5.
To remove the wall mount bracket, do the opposite from the steps above

Trouble shooting

Verify you have the right power cord or adapter. Never use a power supply or adapter with a non-compliant DC output voltage or it will burn the equipment.

Select the proper UTP or STP cable in order to construct the network. Use an unshielded twisted-pair (UTP) or shield twisted-pair (STP) cable for RJ-45 connections: 100Ω Category 5e for 10M/100/1000Mbps. Also be sure that the length of any twisted-pair connection does not exceed 100 meters (328 feet).

Diagnosing LED Indicators: To assist in identifying problems, the switch can be easily monitored with the LED indicators which help to identity if any problems exist.
Please refer to the LED Indicators section for LED light indication.

If the power indicator LED does not turn on when the power cord is plugged in, the user may have a problem with the power cord. Check for loose power connections, power losses or surges at the power outlet.

If the industrial switch LED indicators are normal and the connected cables are correct but the packets still cannot transmit, please check the systems Ethernet devices configuration or status.

Housing Dimension (mm)

30mm (W) x 95mm (H) x 75mm (D