TP-SW8GBT/AT/PSV-U   Gigabit 8-Port 802.3bt/at/psv PoE + SFP

Industrial L2 Managed Ethernet Switch   Quick Installation Guide

Packing List

Please check the following items after unpacking, if any are missing, please contact your local dealer.

Items	Quantity
PoE Switch	1 pc
Mounting Accessory	1 set
Quick Installation Guide	1 pc

Product Overview

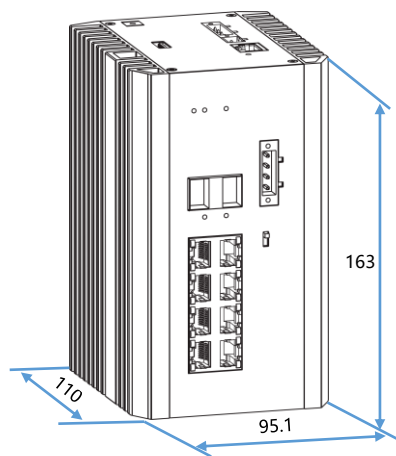The product is an Industrial 4-Port Gigabit PoE++, 4-Port Gigabit PoE+, 2-Port 1.25G SFP L2 Managed Ethernet PoE Switch.

The switch provides 8*10/100/1000Mbps Ethernet RJ-45 ports and 2*1G/2.5Gbps SFP uplink ports. All RJ-45 ports support Power-over-Ethernet (PoE). It meets IEEE 802.3af/at/bt standards. RJ-45 ports also support passive PoE (54V/24V). Ports 1-4 support 802.3bt 90W or 54V 30W power,   Ports 5-8 support 802.3at 30W or 24V 15W power.

The switch supports PoE watchdog features, which can detect and restart the load automatically if it stops working. It supports the Q-PoE (Quick PoE) technology, which enables PoE power supply immediately upon switch startup without waiting for switch system software control. It supports the P-PoE (Perpetual PoE) technology, which enables PoE power supply without interruption when switch is restarting and restores the network quickly.
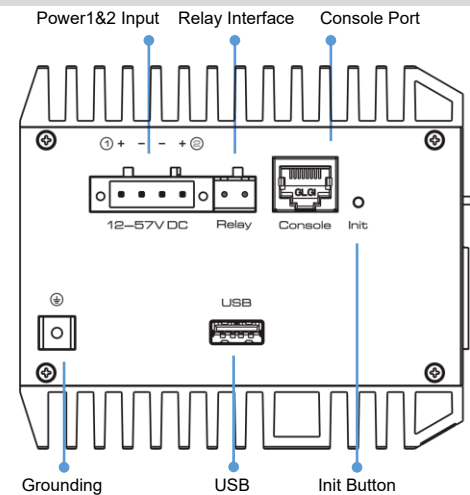
The switch has extensive L2 management functions, such as 802.1Q VLAN, 802.1p QoS, SNMP, Fast-Ring, and PoE control. It can be easily managed via a WEB GUI (http/https), CLI (telnet/ssh/console) or SNMP. The switch supports 12V to 57V DC wide voltage inputs and is designed for high availability applications. It can be widely used in video security monitoring systems, network projects, etc.
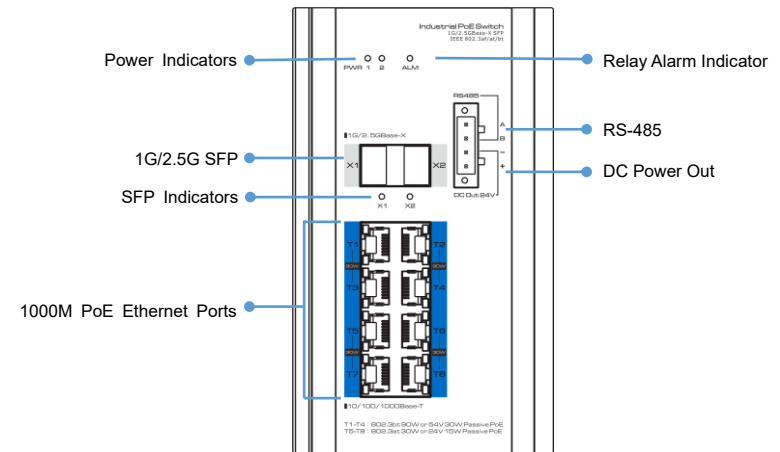
Appearance and Dimensions

Dimensions (mm)	Side Panel
163 110 95.1	Power1&2 Input Relay Interface Console Port ① + – – + ⊕ 12—57V DC Relay Console Init USB Grounding USB Init Button

Front Panel

Power Indicators   Relay Alarm Indicator
1G/2.5G SFP   RS-485
SFP Indicators   DC Power Out
1000M PoE Ethernet Ports

T1-T4 : 802.3bt 90W or 54V 30W Passive PoE
T5-T8 : 802.3at 30W or 24V 15W Passive PoE

Indicator

Indicator		Color	Status	Description
PWR1,2	Power indicator	Red	Solid On	Power supply is on.
			Off	Power supply is off.
ALM	Alarm indicator	Red	Solid On	The device alarms.
			Off	The device is working normally.
X1,X2	SFP port indicator	Green	Solid On	SFP port is linking normally.
			Blink	SFP port is transmitting or receiving data.
			Off	SFP port is linking down.

Factory Settings

The switch starts with its factory settings:

Item	Specifications
Console Port	Baud rate: 115200 bit/s Data bits: 8, Parity: None, Stop bits: 1, Flow control: None
Web Manager	Default IP address/subnet mask: 192.168.1.200/255.255.255.0 User/Password: admin/admin

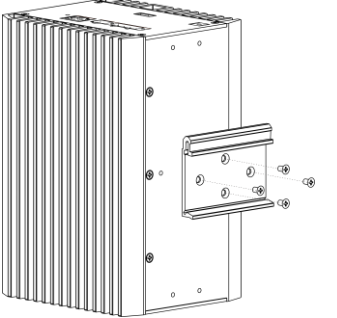### Reset/Init Button
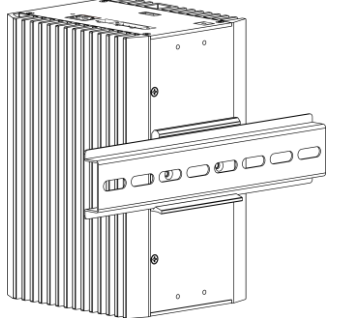
The Reset/Init button has two operating modes:

   Momentary Press: Switch will be reset and the configuration is as previously saved.

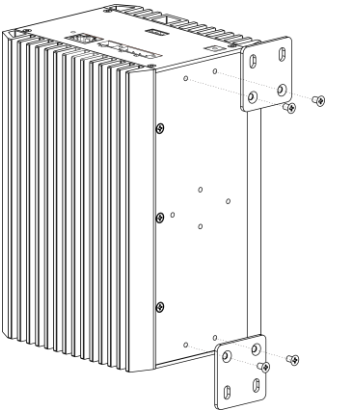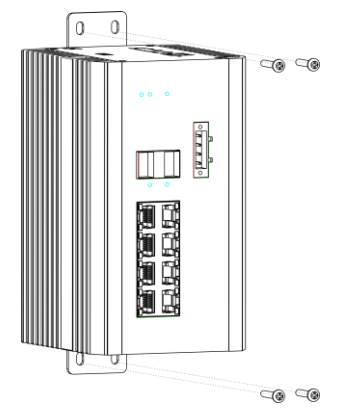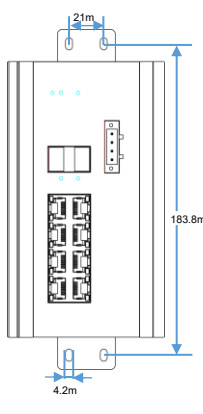   >5s Press: Switch will be restored to the original factory default setting.

Caution

• For better transmission performance, it is recommended to use high-performance Ethernet cable to connect the switch and powered devices.

• For better protection performance, it is recommended to always make the ground connection first and disconnect it last when operating the device.

• Before operating or maintaining the switch, please read the user manual carefully to avoid equipment damage caused by improper operation.

██ **Product Installation**

1) Before installation, power off the equipment. Installation when device is powered on is prohibited.
2) The switch supports DIN rail/desktop/wall mounted installation.
3) **DIN Rail Mounting**:

Step 1: Fix the bracket to the backside of the device with screws.	Step 2: Install the device to the DIN rail.	Accessories
		1* 4*

4) **Wall Mounting**:

Step 1: Fix the wall mount brackets to the switch.	Step 2: Install the device to the wall	Mounting Dimensions
		21m 183.8mm 4.2m

Accessories

2*   4*   4*

5) After the above steps are completed, connect the switch and other equipment using a high-performance Ethernet cable.
6) Check the installation and the wiring, after confirming that the connection is correct and reliable, power on the switch.

The installation is completed.

██ **Specifications**

Item	
Hardware Specifications	
Ethernet Ports	8*10/100/1000BASE-T PoE RJ-45(Auto-MDI/MDI-X)
	2*1G/2.5GBASE-X SFP (The default value is 1G)
Management Ports	1*RJ-45 Console (After connect type "console" to enter console mode)
	1*Relay (12V 0.6A)
Serial Port	1*RS-485
DC Power	24VDC/0.25A
USB Port	USB3.0(USB 2.0 compatible) – for powering/charging USB device
Init Button	Short press to restart the device, Long press >5s to initialize the system to factory default
LED Indicators	2*PWR, power indicators
	1*ALM, alarm indicator
	2* Gigabit SFP port indicators
Dimensions (W*D*H)	163mm*110mm*95.1mm
Net Weight	1.724kg
Input Voltage	Support redundant power supply, Power 1 (Main): 12~57V DC, Power 2 (Backup): 12~57V DC
Maximum Total Power	240W@48V Input, 120W@24V Input, 60W@12V Input (including DC output)
Self-Consumption	<11W Typ
Installation	DIN-rail/Wall mounted/Desktop
Material	Metal shell
Switch Property	
Forwarding Modes	Store and Forward
Switching Capacity	26Gbps / non-blocking
Packet Forwarding Rate	19.344Mpps
MAC Table	16k
Port Buffer	2MB
Jumbo Frame	9kB
PoE	
Device Type	PSE
PoE Standard	IEEE 802.3af/at/bt and 54V/24V Passive PoE
PoE Power Supply Type	End-span
PoE Pin Assignment	Port 1-4: 802.3bt = 3,6,4,5 (V+) 1,2,7,8 (V-), 54V Passive PoE = 4,5 (V+) 7,8 (V-) Port 5-8: 802.3at = 1,2 (V+) 3,6(V-), 24V Passive PoE = 4,5 (V+) 7,8 (V-)
Port PoE Power	Port 1-4: 802.3bt 90W or 54V 30W Passive PoE Port 5-8: 802.3at 30W or 24V 15W Passive PoE
Reliability	
ESD	IEC61000-4-2, Level 3: Contact Discharge: ±8kV, Air Discharge: ±15kV
Surge Protection	IEC61000-4-5, Data Port: ±6kV
Operating	-40°C ~75°C, 5%~95% (Non-condensing)
Storage	-40°C ~85°C, 5%~95% (Non-condensing)
Certifications	
Certifications	CE, FCC