TP-SW8G-BT-SFP

DATA SHEET

Industrial 802.3bt PoE++ Switch

Features

- **Industrial Strength (-30C to +60C Operating Temperature)**
- **10/100/1000 Gigabit Compatible Ethernet and 1G Fiber**
- **46DC to 57VDC Redundant Power Supply Input**
- **4x 90W 802.3bt PoE++, 2x uplink, 2x SFP Ports**
- **16 Gigabit Switching Capacity**
- **Surge Protected Inputs, Fan-less Metal Shell**
- **DIN Rail Mount, Wall Mount or Desktop mode**



Applications

- **Outdoor Network Installations**
- **Cameras and Wireless Radios**
- **PoE Lighting Applications**
- **Factory Floor Networks**

Description:

The Tycon Power® TP-SW8G-BT-SFP is a fully automatic Layer 2 Gigabit Ethernet switch with 8 ports, including:

- 4 × 802.3bt PoE++ ports delivering up to 90W each (360W total)
- 2 × Gigabit uplink ports
- 2 × SFP ports

The SFP ports support standard single-mode or multimode fiber transceivers, as well as RJ45 transceivers for two additional copper Ethernet ports.

The switch includes DIP-switch controlled features such as VLAN, QoS, PoE watchdog, and Network Extend mode.

Dual power inputs provide primary and backup power support. The unit requires 46–57VDC input via a wire terminal connector supporting up to 12AWG wire.

Compatible with Cat5e/6 or better Ethernet cables, the switch supports standard network distances up to 100m, or up to 250m in Extend mode. Fiber connections can reach up to 120km depending on the SFP transceiver used.

Designed for industrial and outdoor applications, the switch features shielded and grounded RJ45 ports, surge protection on all ports, and a wide operating temperature range.

Specifications:

	TP-SW8G-BT-SFP
Ports	Ports 1-4: Gigabit 802.3bt 90W PoE++ Ports 5-6: Gigabit Uplink Ports 7-8: Gigabit SFP Transceivers
Backplane Switching Capacity	16 Gigabit
Mac Address Table	4K

Transceiver Compatibility	1G Multi Mode or Single Mode Fiber or RJ45
Connections	Shielded RJ45, Shielded SFP/LC, Grounded to Case
Power Input	Vin 46VDC to 57VDC on Dual Input Wire Terminal (Max wire size 12AWG)
Switch Total PoE Power Output	360W Max
Self Consumption	< 2 watts typical
LED Indicators	Port 1-4:(Green=Link LED; Orange=PoE LED） Port 5-6:(Green=Link LED) Port 7-8: (SFP Port Status, Green LED Link Light, OFF = No Connection) PWR1/PWR2: (Green LED ON=Power , OFF = No Power)
PoE Standards	802.3af/at/bt PoE ++
PoE Protections	Over Voltage, Over Current, Short Circuit
PoE Pinout	Ports 1-4: 802.3bt 3/6,4/5 (V+) ; 1/2,7/8(V-)
Reset/Init Button	Momentary Press = Reset/Restart
Surge Protection	IEC61000-4-5, Data Port: +/- 6KV
Low Voltage Detect (LVD)	Supply Voltage < 44V; unit disconnects from battery to prevent battery overdischarge
AI DIP Switch Functions	
1. VLAN = ON	Ports 1-4 do not communicate with each other, they only communicate with the Uplink and SFP ports
2. Extend = ON	Ports 1-4 can transmit up to 250m using Cat5e/6 or better Ethernet cable
3. PoE Watchdog = ON	Ports 1-4. If a linked port receives no data for 2-3 minutes, PoE Watchdog power cycles that port, causing the linked device, such as an IP Camera, to restart.
4. QOS = ON	When enabled, Ports 1-2 have higher data priority
Network Protocols and Standards Summary	IEEE 802.3i 10BASET, 802.3u 100BASET, 802.3z 1000BASET 802.3x Flow Control 802.3ab Gigabit Media Independent Interface (GMII) 802.3af /at /bt (PoE)
Environmental Protection	IP40
Operating Temp	-30 to +60°C (-22 to 140°F)
Operating Humidity *(RH)*	5% - 90% (non-condensing)
Storage Temperature	-40 to +75°C (-40 to +167°F)
Certifications	CE, FCC, RoHS
Dimensions *(LxWxH)*	155*122*57mm (6.1 x 4.8 x 2.2”)
Weight	0.8kg (1.75 lbs.)
Warranty	3 Years

System Ordering:

TP-SW8G-BT-SFP	46-57VDC Input Industrial Gigabit PoE++ Switch with 4 802.3bt(90W), 2 Uplink, 2 SFP Ports

For further information contact:

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RoHS compliant

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