TP-SW5G24-AT

DATA SHEET

802.3at PoE+ Switch, 12/24VDC IN

Features

- **Industrial Strength (-30C to +60C Operating Temperature)**
- **10/100/1000 Gigabit Compatible Ethernet**
- **10-36VDC Redundant Power Supply Input**
- **4x 30W 802.3at PoE+, 1x uplink**
- **10 Gigabit Switching Capacity**
- **Surge Protected Inputs, Fan-less Metal Shell**
- **DIN Rail Mount, Wall Mount or Desktop mode**



TP-SW5G24-AT Industrial PoE+ Switch

Applications

- **Outdoor Network Installations**
- **Cameras and Wireless Radios**
- **Vehicle Applications**
- **Off Grid Applications**
- **PoE Lighting Applications**
- **Factory Floor Networks**
- **Marine Applications**
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Description:

The Tycon Power® TP-SW5G24-AT is a compact, fully automatic Layer 2 Gigabit Ethernet switch designed for industrial, vehicle, marine, off-grid, and battery-powered applications. The switch includes 5 Gigabit Ethernet ports:

- 4 × 802.3at PoE+ ports providing up to 30W per port (120W total PoE power)
- 1 × Gigabit uplink port

The PoE+ ports can power devices such as IP cameras, wireless access points, VoIP phones, and other PoE-enabled equipment while providing high-speed Gigabit data connectivity.

A built-in DC-to-DC converter allows the switch to supply standard 54VDC PoE+ output while operating from a wide 10–36VDC input range. This makes the switch ideal for systems powered by batteries or DC power sources, including solar systems, vehicles, boats, and remote installations.

The switch is specifically designed for low power consumption and includes Low Voltage Disconnect (LVD) functionality to help protect batteries and extend operating time compared to standard Ethernet switches.

Dual DC power inputs provide support for both primary and backup power connections for improved reliability. The switch accepts 10–36VDC input through a wire terminal connector supporting up to 12AWG wire. When both power inputs are connected, the higher voltage input automatically operates as the primary source while the lower voltage input serves as the backup.

Compatible with Cat5e, Cat6, or higher Ethernet cabling, the switch supports standard Ethernet distances up to 100m (328ft).

Built for demanding environments, the TP-SW5G24-AT features shielded and grounded RJ45 connectors, surge protection on all ports, and a wide operating temperature range for reliable performance in industrial and outdoor applications.

Specifications:

	TP-SW5G24-AT
Ports	Ports 1-4: Gigabit 802.3at 30W PoE+ Ports 5: Gigabit Uplink
Backplane Switching Capacity	10 Gigabit
Mac Address Table	2K
Connections	Shielded RJ45, Grounded to Case
Power Input	Vin 10VDC to 36VDC on Dual Input Wire Terminal (Max wire size 12AWG)
Switch Total PoE Power Output	80W Max @ 10VDC input, 120W Max @ 36VDC input
Self Consumption	< 3 watts typical
LED Indicators	Port 1-4:(Green=Link LED; Orange=PoE LED） Port 5:(Green=Link LED) P1/P2: (Green LED ON=Power , OFF = No Power)
PoE Standards	802.3af/at PoE+
PoE Protections	Over Voltage, Over Current, Short Circuit
PoE Pinout	Ports 1-4: 802.3at 1/2 (V+) ; 3/6(V-)
Surge Protection	IEC61000-4-5, Data Port: +/- 6KV
Low Voltage Detect (LVD)	Supply Voltage < 9V; unit disconnects from battery to prevent battery overdischarge
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 (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)	119*94*30mm (4.7 x 3.7 x 1.2”)
Weight	395g (0.9 lbs.)
Warranty	3 Years

System Ordering:

TP-SW5G24-AT 10-36VDC Input Industrial Gigabit PoE+ Switch with 4 802.3at(30W), 1 Uplink

For further information contact:

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RoHS compliant

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