

802.3bt 90W PoE Switch

Features

- Multiple Power Inputs: 802.3bt PoE to Port 5, Wire Terminal
- Gigabit Compatible
- Built-in Surge Protection
- Automatic MDI/MDI-X Crossover
- Automatic Speed and Duplex Sensing
- Low Self Power and High Temperature Operation
- DIN Rail Adapters included



Applications

- Power 4 802.3af/at devices from an 802.3bt (70W) PoE Input
- Power 4 802.3bt (up to 90W) from a wire terminal input
- Remote or Local Power for Cameras and Wireless Radios
- Also Functions as Ethernet/PoE repeater



Description

The TP-SW5G-D-BT Power over Ethernet (PoE) 5 Port Gigabit switch offered by Tycon® is a fully automatic high speed, high power, Layer 2 Ethernet switch with one 802.3bt PoE input and four 802.3bt PoE outputs. Ports 1-4 are 802.3af/at/bt compatible with up to 90W PoE Out per port utilizing 2 or 4 pairs for power. The Uplink Port 5, is 802.3bt compatible so the switch can accept up to 70W PoE on 4 pairs to power the switch and connected devices remotely over CAT5 or higher Ethernet Cable. The Ethernet spec supports distances up to 100m (328ft). By using as a repeater, 200m total Ethernet distance is realistic.

The switch can accept power via two different interfaces: Wire Terminal Connector (10A, approx 500W Max) or via 802.3bt PoE input to Uplink Port 5 (70W Max). Two different power inputs can be used for redundancy. The higher voltage takes priority.


The RJ45 connectors are shielded and grounded to the common “FG” (Frame Ground) connection. The units have 15kV surge protection on all Ethernet wires and are conformal coated for moisture protection. They have a wide operating temperature range for outdoor and industrial applications.

Ethernet / PoE Pinouts

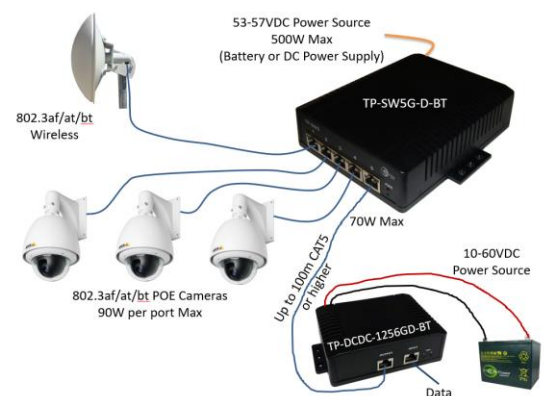
RJ-45 Port 1-4 (Data & Power)			RJ-45 Port 5 - Uplink (Data & Power)		
Pin	Symbol	Description	Symbol	Description	Description
1	A+ / +Vdc	Data A+ / DC power(+)	A+ / +Vdc	Data A+ / DC power(+)	
2	A- / +Vdc	Data A- / DC power(+)	A- / +Vdc	Data A- / DC power(+)	
3	B+ / -Vdc	Data B+ / DC power(-)	B+ / -Vdc	Data B+ / DC power(-)	
4	C+ / +Vdc	Data C+ / DC power(+)	C+ / +Vdc	Data C+ / DC power(+)	
5	C- / +Vdc	Data C- / DC power(+)	C- / +Vdc	Data C- / DC power(+)	
6	B- / -Vdc	Data B- / DC power(-)	B- / -Vdc	Data B- / DC power(-)	
7	D+ / -Vdc	Data D+ / DC power(-)	D+ / -Vdc	Data D+ / DC power(-)	
8	D- / -Vdc	Data D- / DC power(-)	D- / -Vdc	Data D- / DC power(-)	



Specifications

TP-SW5G-D-BT	
Ports	Port 1-4: 802.3bt 90W per port, supports 2 or 4 pair power Port 5: UPLINK 802.3bt Compatible PoE Input to 70W
Transmission Speed	1000 Mbps (Gigabit) / 100 Mbps /10 Mbps Auto-negotiation
Data/PoE Connections	Shielded RJ45, Grounded to FG connection
Input Voltage	Vin 53VDC to 57VDC on Wire Terminal or 802.3bt PoE on port 5 44-57V OK if powering 802.3af devices 50-57V OK if powering 802.3at devices Note: Input power (watts) must be higher than total PoE power out (watts)
LED Function	Power on LED: Green = OK, Off = Fault RJ45 LED's: Port 1-5 Right Hand LED: Link Light (Blinking) (Green = Gigabit, Yellow = 100Mb) Port 1-4 Left Hand LED: PoE ON 4 pair (Yellow On), PoE ON 2 pair (Yellow Blinking) Port 5 Left Hand LED: PoE Power On (Yellow On)
PoE Protections	Over Temperature, Over Current, Short Circuit
Surge Protection	IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact) IEC61000-4-4 (EFT) 40A (5/50ns)
Self Consumption	< 5 Watt Typical
Switch Technology	Store and Forward, automatic MDI/MDI-X crossover
Protocol	CSMA/CD
Flow Control	IEEE802.3x(full-duplex), Back Pressure(half-duplex)
Data Transmission Rate	1488000pps , 148800pps, 14880pps ; Automatic speed and duplex sensing
Address Table	2K MAC, self-learning
Operating Temp	-30 to +70°C (-22 to 158°F)
Operating Humidity (RH)	5% - 90% (non condensing)
Storage Temperature	-40 to +85°C (-40 to +185°F)
Dimensions (LxWxH)	159 x 118 x 40mm (6.3 x 4.6 x 1.6")
Weight	318g (11oz)
Warranty	3 Years
Back Panel Config	

Typical Application:



System Ordering:

TP-SW5G-D-BT

5 Port Gigabit 802.3bt Input, 802.3bt 90W PoE Output Switch

For further information contact:

Tyconsystems.com