

## 802.3bt Input PoE+ Switch

### Features

- Triple Power Inputs: 802.3bt PoE, Wire Terminal, 4 Pin mini DIN
- 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 4 802.3at devices from an 802.3bt PoE Input
- Remote or Local Power for Cameras and Wireless Radios
- Functions as Ethernet/PoE repeater
- PoE Lighting Applications

### Description

The TP-SW5G-D+ Power over Ethernet (PoE) 5 Port Gigabit switch offered by Tycon® is a fully automatic high speed Layer 2 Ethernet switch with one 802.3bt PoE input and four 802.3at PoE outputs. Ports 1-4 are 802.3at 35W PoE Out. The Uplink Port 5, is 802.3bt compatible so the switch can accept up to 100W 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 distance is realistic.

The switch can accept power via three different interfaces: Wire Terminal Connector, 4 pin Mini DIN connector or via 802.3at/bt PoE input to Uplink Port 5. 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

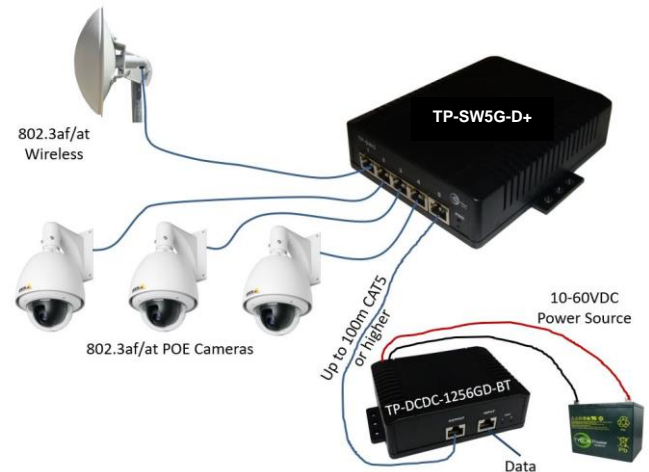
RJ-45 Port 1-4 (Data & Power)			RJ-45 Port 5 - Uplink (Data & Power)		
Pin	Symbol	Description	Symbol	Description	
1	A+ / +Vdc	Data A+ / DC power(+)	A+ / +Vdc	Data A+ / DC power(+)	
2	A- / -Vdc	Data A- / DC power(+)	A- / +Vdc	Data A- / DC power(+)	
3	B+ / -Vdc	Data B+ / DC power(-)	B+ / -Vdc	Data B+ / 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+	
<b>Ports</b>	Port 1-4: 802.3at Mode B (4,5 +; 7,8 -) Port 5: UPLINK 802.3bt Compatible PoE Input (also accepts 802.3at or Passive PoE)
<b>Transmission Speed</b>	1000 Mbps (Gigabit) / 100 Mbps /10 Mbps Auto-negotiation
<b>Data/PoE Connections</b>	Shielded RJ45, Grounded to FG connection
<b>Input Voltage</b>	Vin 44VDC to 57VDC on Wire Terminal or 4 Pin DIN or 802.3bt PoE on port 5
<b>LED Function</b>	<b>Power on LED:</b> Green = OK, Red = Fault <b>RJ45 LED's:</b> <b>Port 1-5 Right Hand LED:</b> Link Light (Blinking) (Green = Gigabit, Yellow = 100Mb) <b>Port 1-4 Left Hand LED:</b> PoE Power ON (Yellow On) <b>Port 5 Left Hand LED:</b> PoE Power On (Yellow On = 4 Pair PoE ; Yellow Blinking = 2 Pair PoE)
<b>PoE Protections</b>	Over Temperature, Over Current, Short Circuit
<b>Surge Protection</b>	IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact) IEC61000-4-4 (EFT) 40A (5/50ns)
<b>Self Consumption</b>	< 3 Watt Typical
<b>Switch Technology</b>	Store and Forward, automatic MDI/MDI-X crossover
<b>Protocol</b>	CSMA/CD
<b>Flow Control</b>	IEEE802.3x(full-duplex), Back Pressure(half-duplex)
<b>Data Transmission Rate</b>	1488000pps , 148800pps, 14880pps ; Automatic speed and duplex sensing
<b>Address Table</b>	2K MAC, self-learning
<b>Operating Temp</b>	-30 to +70°C (-22 to 158°F)
<b>Operating Humidity (RH)</b>	5% - 90% (non condensing)
<b>Storage Temperature</b>	-40 to +85°C (-40 to +185°F)
<b>Dimensions (LxWxH)</b>	159 x 118 x 40mm (6.3 x 4.6 x 1.6")
<b>Weight</b>	318g (11oz)
<b>Warranty</b>	3 Years
<b>Back Panel Config</b>	

## Typical Application:



## System Ordering:

**TP-SW5G-D+**

5 Port Gigabit 802.3bt Input, 802.3at PoE+ Output Switch

For further information contact:

