

### POE 5 Port Switch

#### Features

- IEEE 802.3af High Power 10/100Mb POE Switch (TP-SW5 only)
- Remotely Power Equipment thru CAT5 Cable up to 100m
- Up to 45W per Port
- Automatic MDI/MDI-X Crossover
- Automatic Speed and Duplex Sensing
- 1K Self Learning MAC Address Table
- Compact Size for Desktop
- High Temperature Operation



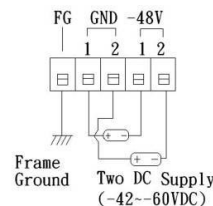
#### Applications

- Wireless Access Points and Client Devices
- IP Phone and Security Camera Systems
- Power multiple devices from 1 data cable

#### Description

The **TP-SW5** Power Over Ethernet (POE) 10/100Mb switch offered by Tycon Power Systems is a fully automatic high speed 5 port Ethernet switch with up to 45 Watts of POE power per port. It complies with the IEEE802.3af specification for valid POE device detection. The **TP-SW5-NC** is a non compliant model for devices which are not 802.3af compliant. The POE output voltage = the input voltage so it is universal in its application. The SW5 Series units supply power to the remote device on the unused Ethernet pins 4,5(V+) and 7,8(V-). The Ethernet spec supports distances up to 100m (328 feet) between the POE switch and the remote device.

The **TP-SW5** switch accepts DC power from the included autoranging 48VDC power supply or can be connected to a user supplied 48VDC power source. The **TP-SW5-NC** accepts 12V to 56VDC. 18V, 24V and 48V 150W power supplies are available. There are 2 power inputs for attachment of primary and backup power sources.



#### Device Pinouts

RJ-45 Port 5 (Data Only)			RJ-45 Port 1-4 (Data & Power)	
Pin	Symbol	Description	Symbol	Description
1	RX+	Data Receive(+)	RX+	Data Receive(+)
2	RX-	Data Receive(-)	RX-	Data Receive(-)
3	TX+	Data Transmit(+)	TX+	Data Transmit(+)
4	NC	No Connection	+Vdc	DC power(+)
5	NC	No Connection	+Vdc	DC power(+)
6	TX-	Data Transmit(-)	TX-	Data Transmit(-)
7	NC	No Connection	-Vdc	DC power(-)
8	NC	No Connection	-Vdc	DC power(-)

## Specifications

TP-SW5	
<b>Ethernet Standard</b>	IEEE802.3/IEEE802.3u (10 base-T/100base-T)
<b>POE Standard</b>	IEEE802.3af (TP-SW5 Only)
<b>Ports</b>	1 data only and 4 data/POE, automatic crossover and polarity
<b>Transmission Speed</b>	100 Mbps(100base-T), 10 Mbps(10base-T), Auto-negotiation
<b>Switch Technology</b>	Store and Forward
<b>Protocol</b>	CSMA/CD
<b>Flow Control</b>	IEEE802.3x(full-duplex), Back Pressure(half-duplex)
<b>Data Transmission Rate</b>	148800pps for 100base-T, 14880pps for 10base-T
<b>Address Table</b>	1K MAC, self-learning
<b>Connections</b>	Shielded RJ45
<b>POE Port</b>	Port 1-4, auto power management Pin assignment: TX(1,2), RX(3,6), V+(4,5), V-(7,8)
<b>Maximum POE Power</b>	45W per port
<b>POE Auto Detection</b>	IEEE 802.3af (TP-SW5 Only)
<b>POE Protection</b>	Over Temperature, Over Current, Over/Under Voltage
<b>LED's</b>	Link (Green On) Activity (Green Blinking) POE Detect (Yellow On) POE Detect Error (Yellow Blinking) Power On (Green On) Power On Alarm (Red On)
<b>DC Power Input</b>	48VDC (42V to 60V), Dual DC Inputs, Reverse Polarity Protected. (12-56VDC for -NC model)
<b>Self Consumption</b>	5 Watts
<b>Operating Temperature</b>	-10 to +70°C (14 to 158°F)
<b>Operating Humidity (RH)</b>	5% - 90% (non condensing)
<b>Storage Temperature</b>	-40 to +80°C (-40 to +176°F)
<b>Dimensions (LxWxH)</b>	159 x 118 x 40mm (6.3 x 4.6 x 1.6")
<b>Weight</b>	1.2kg (2.7lb)

### Notes:

- All shipments F.O.B. Draper, UT 84020
- Tycon Power Systems POE Switches carry a 1 year warranty

## System Ordering:

<b>TP-SW5</b>	5 Port 802.3af POE Switch with 48V 150W power supply and US Power Cord*
<b>TP-SW5-NC</b>	5 Port 12V-56V non-compliant POE Switch (no power supply included)
<b>PSHP-xx</b>	18V, 24V or 48V 150W autoranging power supply for TP-SW5-NC, with US Power Cord*

\*Add an "E" suffix for Euro power cord

## For further information contact:

[Tyconpower.com](http://Tyconpower.com)

## LED STATUS INDICATORS

LED	STATUS	DESCRIPTION
Power	Green	LED ON if either power input (IN1 or IN2) has valid power applied
	Red	LED ON if the following condition happened. *Power input under voltage (Vin<40V) (TP-SW5 Only) *Power input over voltage (Vin>62.5V) *POE over temperature *POE AC disconnect source failure
	Off	No power in DC input

LED	STATUS	DESCRIPTION
P1-P5 Link/Act	Green	A network device is detected, but no communication activity is detected.
	Blinking @43ms	This port is transmitting to, or receiving packet from another device at 100Mbps.
	Blinking @120ms	This port is transmitting to, or receiving packet from another device at 10Mbps.
	Off	No device is detected.

LED	STATUS	DESCRIPTION
P1-P4 POE	Yellow	A valid Powered Device(PD) is detected and delivering power on this port.
	Blinking	Note: The LED flash cycle is repeated every 1.2 seconds. Error detected, the following event has occurred:  *150ms On / 1050ms Off Low resistance (Rpd<15k)or short at this port  *300ms On / 300ms Off High resistance (Rpd>33k) or high capacitance (Cpd>8.5uF) at this port  *900ms On/ 300ms Off Overload at this port  *150ms On/ 150ms Off cycle Unknown error at this port
	Off	No PD is detected on this port.

