

### POE 5 Port Switch

#### Features

- High Power 10/100 and 1000Mb (“G”) POE Switch
- Remotely Power Equipment thru CAT5 Cable up to 100m
- Up to 35W per Port
- Automatic MDI/MDI-X Crossover
- Automatic Speed and Duplex Sensing
- 1K Self Learning MAC Address Table
- Compact Size
- High Temperature Operation



TP-SSW5-NC



TP-SW5G (802.3af/at)  
TP-SW5G-NC

#### Applications

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

#### Description

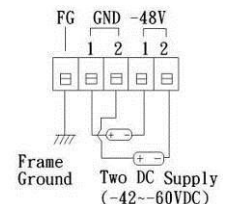
The SW5 Series Power Over Ethernet (POE) switches offered by Tycon Power Systems are fully automatic high speed 5 port Ethernet switches with up to 45 Watts of POE power per port. The switch comes in 3 models:

**TP-SW5G:** IEEE802.3af Compliant 48VDC 10/100/1000MB POE Switch. Switch accepts 48VDC power via a wire terminal connector on the back of the Switch or via 48VDC POE into the 802.3af/at compliant uplink port (90W max). The Switch comes complete with a 48VDC 150W AC/DC power converter.

**TP-SW5G-NC:** Universal Voltage 10/100/1000MB POE Switch. Switch accepts universal voltage (12-57VDC) via the wire terminal connector on the back of the Switch or via 48VDC POE into the 802.3af/at compliant uplink port (90W max). When powering the Switch via the uplink port the universal voltage input is disabled.

**TP-SSW5-NC:** Universal Voltage 10/100 POE Switch. Switch accepts universal voltage (12-57VDC) via the wire terminal connector on the back of the Switch. This model is very compact at only 4”x5”x1.5”

On the universal voltage models (“-NC”) 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 Switches accept connections for up to two power supplies if additional power is required or if a backup power source is desired.



Tycon Power Systems sells a variety of power supplies in 60W and 150W sizes. 18VDC, 24VDC and 48VDC are available.

All the Switches have DIN Rail mounts included for convenient DIN rail mounting.



## Specifications

	TP-SSW5-NC	TP-SW5G-NC	TP-SW5G
<b>Ethernet Standard</b>	IEEE802.3/IEEE802.3u (10 /100 base-T)	IEEE802.3/IEEE802.3u (10 /100/1000 base-T)	
<b>Ports</b>	1 data only and 4 data/POE, automatic crossover and polarity	1 data/POE in, 4 data/POE out Automatic crossover and polarity	1 data/POE in, 4 data/POE out Automatic crossover and polarity
<b>Transmission Speed</b>	100 Mbps /10 Mbps Auto-negotiation	1000Mbps / 100 Mbps /10 Mbps 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	1488000pps for 1000base-T, 148800pps for 100base-T, 14880pps for 10base-T	
<b>Address Table</b>	1K MAC, self-learning		
<b>Connections</b>	Shielded RJ45		
<b>POE Output Ports</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>	35W per port	35W per port	
<b>POE Auto Detection</b>	Passive POE	Passive POE	IEEE 802.3af, 802.3at
<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>	12V to 57VDC, Dual DC Inputs, Reverse Polarity Protected.	12V to 57VDC, Dual DC Inputs, Reverse Polarity Protected. Also Accepts POE power input on Port 5	48VDC (42V to 60V), Dual DC Inputs, Reverse Polarity Protected. Also Accepts POE power input on Port 5
<b>Self Consumption</b>	< 5 Watts	< 8 Watts	
<b>Operating Temperature</b>	-10 to +70°C (14 to 158°F)	-40 to +75°C (-40 to 167°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>	90 x 118 x 40mm (3.5 x 4.6 x 1.6")	159 x 118 x 40mm (6.3 x 4.6 x 1.6")	
<b>Weight</b>	182g (6.7oz)	318g (11oz)	1.2kg (2.7lb) With Supply

### Device Pinouts – TP-SSW5-NC

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(-)	

### TP-SW5G and TP-SW5G-NC

RJ-45 Port 5 (Data & Power)			RJ-45 Port 1-4 (Data & Power)		
Pin	Symbol	Description	Symbol	Description	
1	A+ / +Vdc	Data A+ / DC Power(+)	A+	Data A+	
2	A- / -Vdc	Data A- / DC Power(+)	A-	Data A-	
3	B+ / -Vdc	Data B+ / DC Power(-)	B+	Data B+	
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-	Data B-	
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(-)	

**Notes:**

- All shipments F.O.B. Bluffdale, UT 84065
- Tycon Power Systems POE Switches carry a 2 year limited warranty

### System Ordering:

- TP-SW5G** 5 Port 802.3af Gigabit POE Switch with 48V 150W power supply and US Power Cord\*
- TP-SW5G-NC** 5 Port 12V-56V Passive POE Gigabit POE Switch (no power supply included)
- TP-SSW5-NC** 5 Port 12V-56V Passive POE 10/100MB POE Switch (no power supply included)
- PSHP-xx** 18V, 24V or 48V 150W autoranging power supply with US Power Cord\*
- PS24V-2.5** 24VDC 2.5A 60W autoranging power supply with US Power Cord\*
- PS48V-1.25** 48VDC 1.25A 60W autoranging power supply with US Power Cord\*

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



### For further information contact:

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

