

Gigabit 802.3af/at POE Converter

Features

- Converts 48V 802.3af/at POE Input to 12V or 24V POE Output
- Run non-compliant equipment on 802.3af/at POE switches
- POE output switchable between 12VDC and 24VDC
- Remotely Power Equipment thru CAT5 Cable up to 100m
- Short Circuit, Over Current and Over Voltage Protection
- High Temperature Operation, Gigabit Ethernet Operation
- Compact size – Floor / Desktop / Wall Mount



TP-POE-1224G
802.3af/at POE Converter

Applications

- Wireless Access Points and Client Devices
- IP Phone and Security Camera Systems

Description

The TP-POE-1224G is a unique Gigabit Power Over Ethernet adapter which converts an 802.3af/at 48VDC POE input into a 12V or 24VDC regulated non-compliant POE output. The POE output voltage is external jumper selectable and capable of up to 25W power output. The POE input is IEEE 802.3af/at compatible so the TP-POE-1224G will work with standard 802.3af/at compliant POE switches or routers. The TP-POE-1224G enables the powering of non compliant POE devices from standard 802.3af/at POE switches, which eliminates the extra expenses usually required to power non compliant equipment.

They accept Gigabit data-in and 802.3af/at POE to a shielded RJ45 Jack and provide Gigabit data-out and 12V or 24V POE on the shielded RJ45 output jack. They work by supplying 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). They have various protections for surge, short circuit, overload and overvoltage.

If the remote device does not support power over Ethernet, splitters (POE-SPLT-S) are available to split the data and DC voltage at the remote device. If the remote device requires reverse voltage the POE-XOVER cable can be used.

Device Pinouts

RJ-45 Input (Data & Power)			RJ-45 Output (Data & Power)	
Pin	Symbol	Description	Symbol	Description
1	BI_DA+, Vin +/-	Data RX+ / Power(+/-)	BI_DA+	Data RX(+)
2	BI_DA-, Vin +/-	Data RX- / Power(+/-)	BI_DA-	Data RX(-)
3	BI_DB+, Vin +/-	Data TX+ / Power(+/-)	BI_DB+	Data TX(+)
4	BI_DC+, Vin +/-	Data RX+ / Power(+/-)	BI_DC+, Vo+	Data RX(+), DC power(+)
5	BI_DC-, Vin +/-	Data RX- / Power(+/-)	BI_DC-, Vo+	Data RX(-), DC power(+)
6	BI_DB-, Vin +/-	Data TX- / Power(+/-)	BI_DB-	Data TX(-)
7	BI_DD+, Vin +/-	Data RX+ / Power(+/-)	BI_DD+, Vo-	Data RX(+), DC power(-)
8	BI_DD-, Vin +/-	Data RX- / Power(+/-)	BI_DD-, Vo-	Data RX(-), DC power(-)

Specifications

TP-POE-1224G	
DC POE Output Voltage (+/-2.5%)	12V or 24V (switchable)
Overvoltage Protection	16V or 28V
POE Input (IEEE 802.3af/at)	36 - 60VDC
Output Current	1A @ 12V 1A @ 24V
Output Power	25W Max
Load Regulation	5%
Ripple / Noise	2%
EMC Standards	FCC Class B NE55022 Class B
Safety Standards	UL1950, CSA 22.2 & TUV EN60950
Operating Temperature	-30 to +60°C (-22 to +140°F)
Operating Humidity (RH)	5% - 90%
Storage Temperature	-40 to +80°C (-40 to +176°F)
Dimensions (LxWxH)	85 x 76 x 36mm (3.4 x 3 x 1.4")
Weight	150g (5.3oz)

Notes:

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

System Ordering:

TP-POE-1224G 802.3af/at POE Converter with 12V or 24V 24W POE output

Related Items:

POE-XOVER POE Voltage Crossover Cable - converts standard POE pin-out to reverse voltage pin-out



POE-SPLT-S Passive Splitter – 5.5/2.1mm DC Plug

POE-YSPLT-S Passive Y* Splitter – 5.5/2.1mm DC Plug
(*Power is supplied on both RJ45 and DC Plug)



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