



### Gigabit Passive PoE to 802.3af/at Converter

#### Features

- Converts 24VDC Passive PoE to 56VDC 802.3af/at 35W PoE Output. Gigabit Compatible
- Run 802.3af/at equipment from 24VDC Passive PoE switches like Tycon® TP-SW5G-NC / TP-SW8-NC or Ubiquiti TOUGHSwitch™
- PoE output up to 35W
- Remotely Power Equipment thru CAT5/6 Cable up to 100m
- Short Circuit, Over Current and Over Voltage Protection



TP-POE-2456GD  
Gigabit Passive POE to  
802.3af/at POE Converter

#### Applications

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

#### Description

The TP-POE-2456GD is a unique Gigabit Power over Ethernet adapter which converts a 24VDC passive PoE input to an 802.3af/at 56VDC PoE output. The only connections required are CAT5/6 cables. The IEEE 802.3af/at compliant PoE output is capable of up to 35W power output. The PoE input is 22V to 36VDC passive PoE so the TP-POE-2456GD is perfect for running IP PoE Cameras or other PoE devices from passive PoE switches like the Tycon® TP-SW5G-NC / TP-SW8-NC or Ubiquiti TOUGHSwitch™.

The units supply power to the remote device on 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.

#### Device Pinouts

RJ-45 Input (Data & Power)			RJ-45 Output (Data & Power)	
Pin	Symbol	Description	Symbol	Description
1	BI_DA+	Data Pair A+	BI_DA+	Data Pair A+
2	BI_DA-	Data Pair A-	BI_DA-	Data Pair A-
3	BI_DB+	Data Pair B+	BI_DB+	Data Pair B+
4	+Vdc & BI_DC+	Power(+) & Data Pair C+	+Vdc & BI_DC+	Power(+) & Data Pair C+
5	+Vdc & BI_DC-	Power(+) & Data Pair C-	+Vdc & BI_DC-	Power(+) & Data Pair C-
6	BI_DB-	Data Pair B-	BI_DB-	Data Pair B-
7	-Vdc & BI_DD+	Power(-) & Data Pair D+	-Vdc & BI_DD+	Power(-) & Data Pair D+
8	-Vdc & BI_DD-	Power(-) & Data Pair D-	-Vdc & BI_DD-	Power(-) & Data Pair D-

## Specifications

TP-POE-2456GD	
<b>Passive PoE Input Voltage</b>	22VDC to 36VDC
<b>Output Overvoltage Protection</b>	58V
<b>PoE Output</b>	56VDC 802.3af and 802.3at compatible
<b>Output Current</b>	0.625A @ 56V
<b>Output Power</b>	35W Max
<b>Network Speed</b>	10/100/1000Mbps (Gigabit)
<b>Load Regulation</b>	5%
<b>Ripple / Noise</b>	2%
<b>LED Function</b>	RED = 24V Input power is ON GREEN = Successful 802.3at handshake. Output power ON
<b>Operating Temperature</b>	-40 to +70°C (-40 to +158°F)
<b>Operating Humidity (RH)</b>	5% - 90%
<b>Storage Temperature</b>	-40 to +80°C (-40 to +176°F)
<b>Dimensions (LxWxH)</b>	85 x 76 x 36mm (3.4 x 3 x 1.4")
<b>Weight</b>	150g (5.3oz)

**Notes:**

- All shipments F.O.B. Bluffdale, UT 84065
- Tycon Power® Power Sources carry a 3 year warranty



## System Ordering:

**TP-POE-2456GD** Gigabit 24VDC Passive PoE to 802.3af/at PoE 35W Converter

## For further information contact:

Tyconsystems.com

