

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

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 | |
|--------------------------------------|--|
| Passive PoE Input Voltage | 22VDC to 36VDC |
| Output Overvoltage Protection | 58V |
| PoE Output | 56VDC 802.3af and 802.3at compatible |
| Output Current | 0.625A @ 56V |
| Output Power | 35W Max |
| Network Speed | 10/100/1000Mbps (Gigabit) |
| Load Regulation | 5% |
| Ripple / Noise | 2% |
| LED Function | RED = 24V Input power is ON GREEN = Successful 802.3at handshake. Output power ON |
| Operating Temperature | -40 to +70°C (-40 to +158°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. 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

