Techroutes
N E T W O R K

Industrial Grade Gigabit Ethernet POE Media Converter

TD-IFMC-GE-P

Overview

TD-IFMC-GE-P series Industrial POE Media Converter is the ideal solution for powering remote devices such as IP phones, video cameras, wireless access points, alarms, traffic controllers, sensors and tracking devices, which are installed 100m far from a Power over Ethernet switch. In addition to transmitting data, the twisted-pair port also injects power down the cable, allowing a remote Power over Ethernet Device to operate without the need of any additional power source. All Power over Ethernet Powered Devices (IEEE 802.3af/at complaint) are supported, as TD-IFMC-GE-P series can deliver a full 15.4W / 30W of power to the remote device.

TD-IFMC-GE-P series is designed to extend the distance of a network by converting Gigabit Ethernet data between twisted pair cabling and multi-mode or single-mode fiber-optic cabling. It will operate in industrial grade temperature, used in traffic management, oil and gas pipelines, weather tracking, industrial and outdoor applications. Additionally, it can be installed by DIN-rail or wall-mount, allowing users to deploy any mix of network conversions required

TD-IFMC-GE-P features a 1000Base-FX fiber port and a 10/100/1000Base-T RJ-45 port. The fiber optic port features SC connector and operating distance from 2km to 120km depending on different Model. The twisted-pair port has an RJ-45 connector with a maximum operating distance of 100m.

Many Backbone switch products now support the industry-standard IEEE 802.1Q specification for VLANs that send extra-long data packets on the network. TD-IFMC-GE-P series converters are fully compatible with these long packets, enabling them to be used in modern networks.

Your Route to The Destination

Features

- UTP with POE to fiber media converter
- IEEE 802.3af/at complaint
- RJ45 support auto MDI/MDI-X function
- Auto-negotiation speed, half/full-duplex
- Store-and-forward & Cut-thought optional
- Built-in LFP (Link-fault-pass-through) function
- Jumbo frame: 9kbytes
- Wide-range redundant power design (12~56VDC)
- Support wide operating temperature (-40 ˚C ~ +85 ˚C)
- Power polarity reverse protect
- Overload current resettable fuse present
- IP-40 protection
- Provide EFT protection for Power line
- Support Ethernet ESD protection
- DIN-Rail and Wall- Mounted Installation
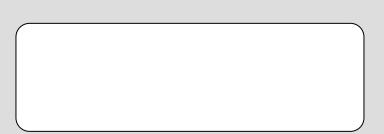
Specification

Standards	IEEE802.3 10BaseT; IEEE802.3u 100BaseT(X); IEEE802.ab 1000BaseT; IEEE802.3z 1000BaseX IEEE802.3x Flow control; IEEE802.1d Spanning Tree, IEEE802.1Q VLANs; IEEE 802.3af/at POE
Performance	Processing Type : Store and Forward, Cut-through MAC Table Size: 1Kbit Buffer Space: 288Kbit Time Delay: ＜150µs
Copper Port	Data Rate: 10/100/1000M Connector: RJ45 Distance: 100m
Fiber Port	Data Rate: 1.25G Connector: SC as default, FC/ST Optional Distance: MMF=2km,SMF =20/40/80/100/120km, Bi-di=20/40/80/100/120km
Dip-switch	Dip1 ON + Dip2 ON = Modified Cut-through Mode Dip1 ON + Dip2 Off = Converter Mode Dip1 Off + Dip2 ON = Cut-through Dip1 Off + Dip2 off = Store and forward mode Dip4 ON = LFP Enable; Dip4 Off = LFP Disable
LED indicators	PWR1: ON=Power Connected PWR2: ON= Power Connected FL/A: ON=Fiber Connected; Active=Data Transmitting

	TL/A: ON=Copper Connected; Active= Data Transmitting 1000M: ON=1000M Data Rate Transmitting POE: ON=Power Working; Off=No Power
Power	Input Voltage: 12~56 VDC, redundant power inputs Power Consumption: <5W (POE excluded) Protection: Overload Current; Reverse Polarity Connector: Terminal Block
Environment	Operating Temperature:-40 ˚C ~ +85 ˚C Storage Temperature: -40 ˚C ~ +95 ˚C Relative humidity: 5-95% (no condensation)
Physical Characteristics	Housing: IP40 Protection; Aluminum Alloy Installation: DIN-Rail , Wall-Mounted Dimension: 115*81*35mm Weight: 0.30kg

Order Information

\

Part No.	Specification
TD-IFMC-GE -P-M02	1 x 10/100/1000Base-T to 1000Base-FX ; MMF 1310nm SC 2km
TD-IFMC-GE -P -S20	1 x10/100/1000Base-T to 1000Base-FX ; SMF 1310nm SC 20km
TD-IFMC-GE -P -A20	1 x 10/100/1000Base-T to 1000Base-FX; Bi-Di TX1310/RX1550nm SC 20km
TD-IFMC-GE -P-B20	1 x 10/100/1000Base-T to 1000Base-FX; Bi-Di TX1550/RX1310nm SC 20km
1. SC connector as default, FC/ST as request	
2. Default Power Supply: DC, for AC power input external AC to DC power adapter will be provided.	

For More details:
  visit : www.techroutes.com
  Or contact
      sales@techroutes.com
      info@techroutes.com