

## Gigabit Ethernet Media Converter

### TD-FMC-GE-SFP



#### Overview

The TD-FMC-GE-SFP series is a performance and cost-effective Fiber Media Converter that meet the high reliability requirements of network operations. It 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.

The TD-FMC-GE-SFP features 1x Gigabit SFP port and 1 x 10/100/1000M twisted-pair Ethernet port. The SFP port features LC connector and operating distance from 2km to 120km depending on different SFP Transceiver. The twisted-pair port has 1 x RJ-45 connector with a maximum operating distance of 100m.

The TD-FMC-GE-SFP Gigabit Ethernet Interface is designed to stand up to extreme temperature, in industrial automation, government, military, Oil & Gas, mining and indoor/outdoor applications, such as traffic management, Oil and Gas pipelines.

The TD-FMC-GE-SFP series enables real-time deterministic network operation, requires no configuration and will instantly operate as soon as you power it up.

Many Backbone switch products now support the industry-standard IEEE802.1q specification for VLANs that send extra-long data packets on the network.

## Features

- 10/100/1000Mbps auto-sensed, easily upgrade
- Full-duplex and half-duplex auto-sensed
- MDI/MDI-X Auto Negotiation
- 10/100/1000Mbps store-and-forward
- 1000Mbps cut-through transmission
- Packet size up to 1518~9216 bytes
- Supporting VLAN / VoIP /QoS packets
- Support flow control and reduce broadcast packets
- Supporting STP to form a redundant network
- Extremely low power consumption, low heat, stable performance
- Providing Desktop, Wall-mounted, Chassis, DIN-rail installation
- LFP (Link Fault Pass-Through) Function
- External Power adapter or USB Power Source
- DIP Switch to set configurations

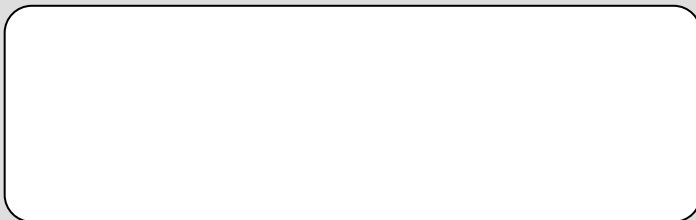
## Technical Specification

Standard	IEEE802.3 10Base-T Ethernet,
	IEEE802.3u 100Base-TX/FX Fast Ethernet
	IEEE802.3ab 1000Base-T Gigabit Ethernet over twisted Pair
	IEEE803.3z 1000Base-X Gigabit Ethernet over Fiber
Data Rate	Copper: 10/100/1000M;
	Fiber: 1.25Gbps
Flow control	Full duplex: flow control;
	Half duplex: back pressure
Copper Port	No.s of Copper Port: 1
	Connector: RJ45 Connector
	Distance:100m
Fiber Port	No.s of SFP Port: 1
	Connector: LC
	Wavelength: MMF 1310nm, SMF: 1310nm, Bi-di 1310/1550nm
	Distance: MMF 2Km, SMF 20/40/80/100/120Km, Bi-di 20/40/80/100Km
LED indicators	PWR (power supply);
	FDX (FX full duplex),
	Link/Act (twisted pairs link/action)
	100/1000 (transmission rate of twisted pairs)
	FX (1000M transmission rate of optical fiber)
Power supply	Working power: DC 5V 1A
	AC Power Supply: 100V~ AC240V to 5V1A
	Or DC Power Supply: -36~-72V to 5V1A

	External / Internal Power Supply Optional
Power consumption	<2W
Environment	Operating temperature : -10~60 °C
	Storage Temperature: -40~85 °C
	Relative Humidity: 5% to 95% non-condensing
Dimensions	External: 94mmx70mm*26mm
	Internal: 140mmx110mmx30mm
Gross Weight	External : 0.4kg
	Internal: 0.5kg

### Order Information

Model No.	Fiber Mode	Wavelength	Distance	Power Supply
TD-FMC-GE-SFP-DF-2KM-EA	MMF	1310nm	2KM	Ex.AC220V
TD-FMC-GE SFP-DF-20KM-EA	SMF	1310nm	20KM	Ex.AC220V
TD-FMC-GE- SFP -DF-40KM-EA	SMF	1310nm	40KM	Ex.AC220V
TD-FMC-GE- SFP -SF-A20KM-EA	Bi-di	TX1310/RX1550nm	20KM	Ex.AC220V
TD-FMC-GE- SFP -SF-B20KM-EA	Bi-di	TX1550/RX1310nm	20KM	Ex.AC220V
TD-FMC-GE- SFP -SF-A40KM-EA	Bi-di	TX1310/RX1550nm	40KM	Ex.AC220V
TD-FMC-GE- SFP -SF-B40KM-EA	Bi-di	TX1550/RX1310nm	40KM	Ex.AC220V
TD-FMC-GE- SFP -DF-2KM-ED	MMF	1310nm	2KM	Ex.DC48V
TD-FMC-GE- SFP -DF-20KM-ED	SMF	1310nm	20KM	Ex.DC48V
TD-FMC-GE- SFP -DF-40KM-ED	SMF	1310nm	40KM	Ex.DC48V
TD-FMC-GE- SFP -SF-A20KM-ED	Bi-di	TX1310/RX1550nm	20KM	Ex.DC48V
TD-FMC-GE- SFP -SF-B20KM-ED	Bi-di	TX1550/RX1310nm	20KM	Ex.DC48V
TD-FMC-GE- SFP -SF-A40KM-ED	Bi-di	TX1310/RX1550nm	40KM	Ex.DC48V
TD-FMC-GE- SFP -SF-B40KM-ED	Bi-di	TX1550/RX1310nm	40KM	Ex.DC48V



#### For More details:

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