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Fast Ethernet Media Converter

TD-FMC-FE

Overview

The TD-FMC-FE 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 Fast Ethernet data between twisted pair cabling and multi-mode or single-mode fiber-optic cabling.

The TD-FMC-FE features 1x 155M fiber port and 1 x 10/100M twisted-pair Ethernet port. The fiber optic port features SC connector and operating distance from 2km to 120km depending on different Model. The twisted-pair port has 1 x RJ-45 connector with a maximum operating distance of 100m.

The TD-FMC-FE Fast 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-FE 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. The TD-FMC-FE series converters are fully compatible with these long packets, enabling them to be used in modern networks.

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Features

- 10/100Mbps auto-sensed, easily upgrade
- Full-duplex and half-duplex auto-sensed
- MDI/MDI-X Auto Negotiation
- 10/100Mbps store-and-forward
- 100Mbps cut-through transmission
- Packet size up to 1518bytes
- 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

Technical Specification

Standard	IEEE802.3 10Base-T Ethernet,
	IEEE802.3u 100Base-TX/FX Fast Ethernet
Data Rate	Copper: 10/100M;
	Fiber: 155M
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 Fiber Port: 1
	Connector: SC as default, FC/ST optional
	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);
	FL/A (optical link/action)
	FDX (FX full duplex),
	TL/A (twisted pairs link/action)
	100 (100M transmission rate of twisted pairs),
	FX (100M transmission rate of optical fiber)
Power supply	Working power: DC5V 1A
	AC Power Supply: 100V~ AC240V to 5V1A
	Or DC Power Supply: -36~-72V to 5V1A
	External / Internal Power Supply Optional
Power consumption	<3W
Environment	Operating temperature : -10~55ºC
	Storage Temperature: -40~85ºC
	Relative Humidity: 5% to 95% non-condensing

Your Route to The Destination

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-FE-DF-2KM-EA	MMF	1310nm	2KM	Ex.AC220V
TD-FMC-FE-DF-20KM-EA	SMF	1310nm	20KM	Ex.AC220V
TD-FMC-FE-DF-40KM-EA	SMF	1310nm	40KM	Ex.AC220V
TD-FMC-FE-SF-A20KM-EA	Bi-di	TX1310/RX1550nm	20KM	Ex.AC220V
TD-FMC-FE-SF-B20KM-EA	Bi-di	TX1550/RX1310nm	20KM	Ex.AC220V
TD-FMC-FE-SF-A40KM-EA	Bi-di	TX1310/RX1550nm	40KM	Ex.AC220V
TD-FMC-FE-SF-B40KM-EA	Bi-di	TX1550/RX1310nm	40KM	Ex.AC220V
TD-FMC-FE-DF-2KM-ED	MMF	1310nm	2KM	Ex.DC48V
TD-FMC-FE-DF-20KM-ED	SMF	1310nm	20KM	Ex.DC48V
TD-FMC-FE-DF-40KM-ED	SMF	1310nm	40KM	Ex.DC48V
TD-FMC-FE-SF-A20KM-ED	Bi-di	TX1310/RX1550nm	20KM	Ex.DC48V
TD-FMC-FE-SF-B20KM-ED	Bi-di	TX1550/RX1310nm	20KM	Ex.DC48V
TD-FMC-FE-SF-A40KM-ED	Bi-di	TX1310/RX1550nm	40KM	Ex.DC48V
TD-FMC-FE-SF-B40KM-ED	Bi-di	TX1550/RX1310nm	40KM	Ex.DC48V

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

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