

Industrial Grade Fast Ethernet Media Converter

TD-IFMC-FE



Overview

The TD-IFMC-FE series is a performance and cost-effective Industrial Ethernet Switch that meet the high reliability requirements of industrial 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-IFMC-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-IFMC-FE -SFP provides one SFP slot for any MSA-complaint pluggable 155M SFP transceivers.

The TD-IFMC-FE Industrial Fast Ethernet Switch is designed to stand up to extreme temperature, surges, vibrations, and shocks found in industrial automation, government, military, oil & gas, mining and outdoor applications, such as traffic management, oil and gas pipelines.

The TD-IFMC-FE series enables real-time deterministic network operation, requires no configuration and will instantly operate as soon as you power it up. Additionally, they can be installed by DIN-rail or wall-mounted, allowing users to deploy any mix of network conversions required.

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

Features

- 1x 10/100Base-Tx Port to 1x155M Fiber Port
- 1* fixed fiber module or SFP slot optional
- RJ45 support auto MDI/MDI-X function
- Auto-negotiation speed, half/full-duplex
- Store-and-forward
- Max packet size: 2048bytes
- 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
- Low power consumption

Specification

Standards	IEEE802.3 10Base-T,
	IEEE802.3u 100Base-Tx
	IEEE802.3x Flow control and back pressure,
	IEEE802.1d Spanning Tree,
	IEEE802.1q VLANs
Performance	Processing Type : Store and Forward
	MAC Table Size: 1024bit
	Buffer Space: 512Kbit
	Back bandwidth: 1G
	Time Delay: < 150μs
Copper Port	Data Rate: 10/100M
	Connector: RJ45 x 1
	Distance: 100m
Fiber Port	Data Rate: 155Mbps
	Connector: SC Slot as default, FC/ST/SFP optional
LED indicators	PWR1, FL/A, TL/A:
Power	Input Voltage: 12~56 VDC
	Power Consumption: <5W
	Protection: Overload Current; Reverse Polarity
	Connector: Terminal Block
Environment	Operating Temperature: -40 °C ~ +85 °C
	Relative humidity: 5-95% (no condensation)
Physical	Housing: IP40 Protection, Aluminum Alloy

Characteristics	DIN-Rail/ Wall Mount
	Dimension: 138*107*45mm
	Weight: 0.50kg

Order Information

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



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