

# MC250-4T/1FS

**4-Port 10/100Base-Tx Copper + 1-Port 100Base-FX (15Km) Single-Mode Fiber Unmanaged Media Converter (SC connector) (-40~75?) - Power 12-48V DC - Din rail or Wall Mount 613P-**

## Overview

IFS Ethernet to Fiber Industrial Media Converters offer four 10/100Mbps Ethernet ports and 100Base-FX transmission on either multi-mode or single mode optical fiber for optimum bandwidth usage. Specifically designed for stable and reliable operation in electrically harsh and climatically demanding environments, the module's slim, IP-30 standard metal case accommodates DIN-rail or wall mounting for efficient installation in multiple applications.

These converters are engineered with a high-performance switch architecture capable of providing a non-blocking switch fabric and wire-speed throughput as high as 1Gbps or 1.2Gbps. With its 2K MAC address table, these media converters offer wire-speed packet transfer performance without the risk of packet loss. The Flow Control function allows these modules to deliver fast and reliable data transfer. Available in multi-mode or single-mode configurations, the converters deliver distances of up to 2km or 15km respectively.

Providing extended distance Ethernet transmission, these units are well suited for remotely deployed edge devices such as IP cameras, access control, VoIP and wireless access points. IFS also provides a multi-mode dual-fiber version for drop and repeat network topologies.



## Einzelheiten

- 4 RJ-45 Ports 10/100Base-TX
- Auto MDI/MDI-X
- Auto-negotiation
- 1 Fiber Port 100Base-FX MM or SM Fiber
- Complies with the IEEE 802.3, IEEE 802.3u, Fast Ethernet standard
- Store-and-Forward switching architecture with wire-speed filtering and forwarding rates
- Prevents packet loss with back pressure (half-duplex) and IEEE 802.3x PAUSE frame-flow control (full-duplex)
- Robust Hardened Design
- Provides either DIN-rail or wall-mounting
- 12 ~ 48VDC, redundant power with reverse-polarity protection
- Voltage/surge-suppression
- Complies with IEC60068-2-xx standards for free-fall, shock and vibration
- Wide operating temperature range of up to -40°C ~ +75°C

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### Technische Spezifikationen

#### Allgemein

Kategorie	Industriell
Typ	Ethernet zu Fester Optik
Switch-Durchsatz (Mpps)	0.744
MAC-Tabelle	2 K
Störung Relaisausgang	Ja

#### Verbindungen

Anzahl der Ports	4
Port-Geschwindigkeit	Schnell
Porttyp	10/100
Glasfaser-Port	1
Glasfaser-Port-Typ	Einzelner Modus
Glasfaser-Port-Geschwindigkeit	100Base FX
Distanz für Glasfaser	15 km
Glasfaseranschluss	SC
Wellenlänge	1310 nm

#### Elektrische Angaben

Netzteil	12 bis 48 VDC
Netzteilwert	Redundant power with polarity-reverse protection function
Energieverbrauch	9 W, 31 BTU max.
PoE	Nein

#### Physikalisch

Abmessungen	135 x 87 x 32 mm, 5.31 x 3.42 x 1.26 in. (W x D x H)
Nettogewicht	437 g, 0.965 lbs
Switch Struktur	1 Gbps
Montage	DIN-Hutschiene, Wandmontage

#### Umweltbedingungen

Betriebstemperatur	-40 to +75°C
Lagertemperatur	-40 to +85°C
Relative Luftfeuchtigkeit	0 to 90% noncondensing
IP Klassifizierung	IP30

#### RJ45 Ports

10/100Base-TX Connectors	RJ-45 (4); Auto-negotiate and Auto MDI/MDI-X support
Throughput (packet per second)	148,800pps
Switch Architecture	Store-and-forward
Max Packet Size	1522 Bytes
Electro Static Discharge (ESD) Protection	6KVDC

#### Fiber Ports

100Base-FX SC Connectors	1
Optical Fiber Type	Single-mode (9/125µm)
Optical Distance	15 km

#### Optical

Optical Wavelength	1310 nm
TX Launch Power (dBm)	Max:0, Min: -20
Receiver Sensitivity (dBm)	32
Maximum Input Power (dBm)	0

#### Switch performance

Switch Architecture	Store-and-Forward
Switch Fabric	1 Gbps / non-blocking
Throughput (Packet per second)	0.744 Mpps @ 64bytes
Address Table	2K entries
Shared Data Buffer	1 Mbit on-chip frame buffer
Maximum Frame Size	1522 Bytes packet
Flow Control	Back pressure for Half-Duplex, IEEE 802.3x PAUSE Frame for Full-Duplex

#### LED Indicators

Power	Power input 1 - Green; Power input 2 - Green
Power Fault	Proper Operation - Off; Fault - Green
RJ-45 (10/100Mbps)	100Mbps Activity - Green; 10Mbps Activity - Off
Fiber (100Base-FX)	Connected to network - Green
Optical Link	Link established - Steady Green; TX/RX Activity - Blinking green

#### Electrical & Mechanical

Electrical Fast Transient (EFT) Protection	6 kVDC
Power and Alarm Fault Connector	6-pin removable screw terminal
Alarm Fault Relay	Provides one relay output for power failure notification; 24VDC - 1A max.
Enclosure	IP-30 slim-type metal enclosure

#### Environmental

MTBF	>100,000 h @ 25°C
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#### Standards Compliance

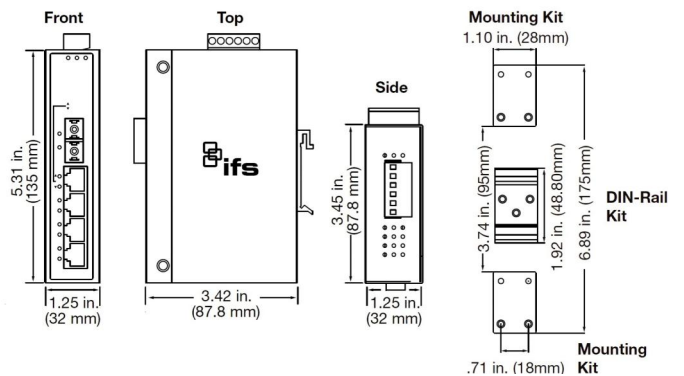
IEEE Standards	IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX /100Base-FX, IEEE 802.3x Flow Control and Back pressure
IEC Standards	IEC60068-2-32(Free fall) IEC60068-2-27(Shock) IEC60068-2-6(Vibration)
EIA/TIA-568 Standards	2-Pair UTP Cat. 3, 4, 5 (100meters, max.) EIA/TIA-568 100-ohm STP (100meters, max.)
Regulation	FCC Part 15 Class A, CE

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## Kompatible Produkte

Kategorie	Referenz	Beschreibung
Netzteile	PS48VDC240W-DIN	100-240V AC Input 48VDC 240W Power Supply with DIN rail mount



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