

MC250-4T/1FS

4-Port Ethernet to Fiber Industrial Media Converter

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 wirespeed 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.



Details

- 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 (halfduplex) 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 reversepolarity 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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Technical Specifications

General

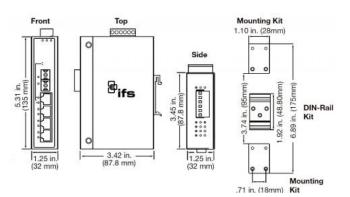
Ethernet to Fixed Optics
0.744
2 K
Yes
Single mode
100Base FX
15 km
SC
Fast
4
10/100
1
1310 nm
135 x 87 x 32 mm
437 g
1 Gbps
DIN-rail, Wall mount
-40 to +75°C
IP30
> 100,000 Hrs @ 25°C
-10°C ~ 75°C
-40°C ~ 85°C
0% ~ 90% (non-condensing)
12 to 48 VDC
9 W
No
RJ-45 (4); Auto-negotiate and Auto
MDI/MDI-X support
148,800pps
Store-and-forward
1522 Bytes
6KVDC
1
Single-mode (9/125µm)

Optical

Optical	
Optical Wavelength:	1310nm
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:	1Gbps / non-blocking
Throughput (Packet per second):	0.744Mpps@64bytes
Address Table:	2K entries
Shared Data Buffer:	1Mbit 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 & Mechanic	cal
Supply Voltage:	12~48VDC, Redundant power with polarity- reverse protection function
Power Consumption:	9.1Watts / 31BTU max.
Electrical Fast Transient (EFT) Protection:	6KVDC
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
Mounting:	DIN-rail kit and wall-mount ears
	5.31 x 3.42 x 1.26 in. (13.5 x 8.7 x 3.2cm)
Weight (Ibsikg):	0.965 lbsi.437kg
Accessories	
613P-EU:	100-240V AC Input 13.5V DC 1.3Amp Output Power Supply Brick model EU plug
613P-UK:	100-240V AC Input 13.5V DC 1.3Amp Output Power Supply Brick model UK plug
PS48VDC240W-EU:	100-240V AC Input 48V DC 5A Output Power Supply Hardened Brick model with EU plug
PS48VDC240W-UK:	100-240V AC Input 48V DC 5A Output Power Supply Hardened Brick model with UK plug



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United Technologies

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