

MC250-1T/1S

Fast Ethernet to SFP Industrial Media Converter

Overview

The IFS Fast Ethernet to SFP Industrial Media Converter is designed for the most demanding IP network applications offering the flexibility of SFP technology for optimizing network performance with wide operating temperature range.

SFP Technology

The IFS MC250-1T/1S converts a 10/100Base-TX Ethernet on copper to 100Base-X fiber via Small Form-format Pluggable (SFP) technology. This media converter can be custom configured to your exact system design specifications by utilizing a variety of IFS SFP Mini-GBIC modules. IFS SFP Mini-GBIC modules are available in a variety of versions from multi-mode or single mode fiber, 1 or 2 fibers and wide-temperature versions.

Robust Hardened Design

With an IP-30 rated enclosure, the IFS Fast Ethernet to SFP Industrial Media Converter provides a high level of immunity against electromagnetic (EMI) and radio-frequency (RFI) interference typically found in industrial environments. This media converter complies with IEC60068-2-xx standards for free-fall, shock, and vibration and operates in -40°C to 75°C temperatures found in difficult environments such as factory floors or in curb side traffic control cabinets.



Details

- 10/100Base-TX
- Complies with IEEE 802.3, IEEE 802.3u
- Auto-negotiation and MDI/MDI-X
- 10/100Base-TX: 2-pair Cat. 5e/6 UTP cable, up to 100 meters
- SFP (Mini-GBIC) Port
- Robust Hardened Design
- DIN-rail or wall-mounting
- 12 ~ 48VDC, redundant power with reverse-polarity protection
- Alarm relay output for port breakdown and power-failure alert
- Complies with IEC60068-2-xx standards for free-fall, shock and vibration
- Voltage/surge-suppression
- Wide operating temperature range of -40°C ~ +75°C

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Technical specifications

General

Category	Industrial
Type	Ethernet to SFP
Fault relay output	Yes

Connections

No. of ports	1
Port speed	Fast
Port type	10/100
Fiber port	1
Fiber port type	SFP
Fiber port speed	100Base FX/LX/BX
Supported SFPs	S20/S25 series
Fiber distance	SFP dependant
Fiber connector	LC
Wavelength	SFP dependant

Electrical

Power supply type	12 to 48 VDC
Power consumption	3 W
PoE	No

Physical

Physical dimensions	32 x 87 x 135 mm (5.31 x 1.26 x 3.46 in.)
Net weight	430 g (0.95 lbs.)
Material	Metal
Mounting type	DIN-rail, Wall mount

Environmental

Operating temperature	-40 to +75°C
Storage temperature	-40 to +85°C
Relative humidity	0 to 90% noncondensing
IP rating	IP30
MTBF	>100,000 h @ 25°C

Ethernet

Data Rate	10/100 Base-TX port
Throughput (packet per second)	148,800 pps
Switch Architecture	Store-and-forward
Max Packet Size	1522 Bytes
Flow Control	Back Pressure for Half Duplex, Mode Pause for Full-Duplex Mode IEEE 802.3x
Connector	RJ-45 (Auto-MDI/MDI-X)
Electro Static Discharge (ESD) Protection	6 kVDC
Cable Type and Distance	10 Base-T: 2-pair UTP Cat. 3,4,5, up to 100 m (328 ft.), 100 Base-TX: 2-pair UTP Cat. 5e, up to 100 m (328 ft.)

Fiber

Data Rate	100 Base-FX/BX/LX 802.3u
Connector	SFP (Mini-GBIC) port
Fiber Type and Distance	Varies by SFP module

LED Indicators & Controls

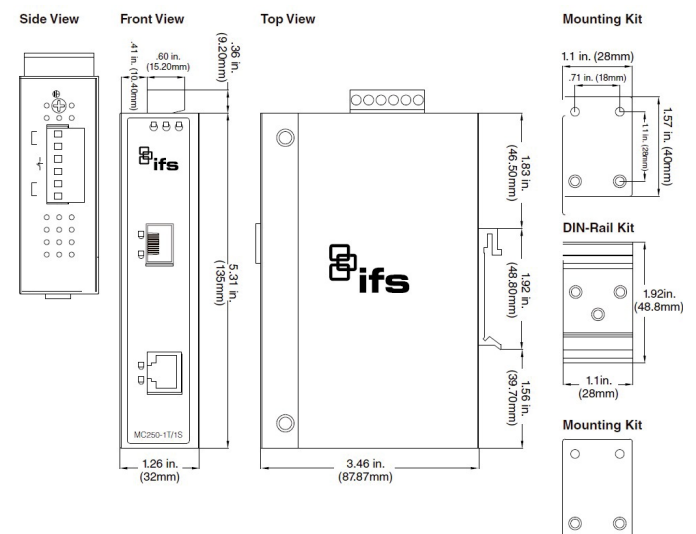
Power/Status	Green/On - power
Power Fault Proper	Green
Operation -Off; Fault	
10/100Base-TX port	Green/On - active port (TX/RX)
SFP (Mini-GBIC) port link	Green/On - link established
Reset button	Reset to factory default settings

Electrical & Mechanical

Power (Redundant with reverse polarity protect function)	12 to 48 VDC, .65 A (3 W max.)
Electrical Fast Transient (EFT) Protection	6 kVDC
Alarm	Provides one relay output for power failure notification Alarm relay maximum current: 1A @ 24VDC
Power and Alarm Fault Connector	6-pin removable screw terminal

Standards Compliance

IEEE	IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX /100Base-FX, IEEE 802.3x
EMI	EN 55022 CLASS A, EN61000-3-2:2006, EN61000-3-3: 1995+1A:2001+A2:2005
EMS	EN 55024:1998+A1:2001, IEC 61000-4-2:2001, IEC 61000-4-3:2008, IEC 61000-4-4:2004, IEC 61000-4-5:2005, IEC 61000-4-6:2008, IEC 61000-4-8:2001
Stability	IEC60068-2-32(Free fall) IEC60068-2-27(Shock) IEC60068-2-6(Vibration)



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