

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-factor 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

MC250-1T/1S

Fast Ethernet to SFP Industrial Media Converter

Technical Specifications

General

Type	Ethernet to SFP
Fault relay output	Yes

Connections

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

Physical

Physical dimensions	32 x 87 x 135 mm
Net weight	430 g
Mounting type	DIN-rail, Wall mount

Environmental

Operating temperature	-40 to +75°C
IP-rating	IP30
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-40°C ~ +85°C
Relative Humidity:	0% ~ 90% (non-condensing)
MTBF:	> 100,000 hrs @ 25°C

Electrical

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

Ethernet

Data Rate:	10/100Base-TX port
Throughput (packet per second):	148,800pps
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:	6KVDC
Cable Type and Distance:	10Base-T: 2-pair UTP Cat. 3,4,5, up to 100 m (328 ft.), 100Base-TX: 2-pair UTP Cat. 5e, up to 100 m (328 ft.)

Fiber

Data Rate:	100Base-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 Operation –Off; Fault:	Green
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

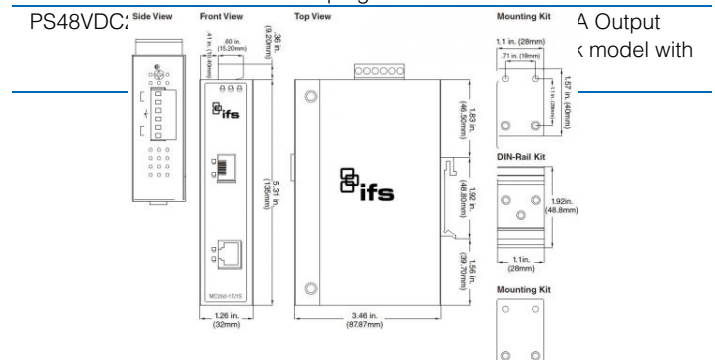
Power (Redundant with reverse polarity protect function):	12 ~ 48VDC, .65A (3W Max.)
Electrical Fast Transient (EFT) Protection:	6KVDC
Alarm:	Provides one relay output for power failure notification Alarm relay maximum current: 1A @ 24VDC
Power and Alarm Fault Connector:	6-pin removable screw terminal
Enclosure:	IP30 rated metal enclosure
Dimensions (H x W x D):	5.31 x 1.26 x 3.46 in. (135 x 32 x 88mm)
Weight:	0.95 lbs. / 430 grams

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)

Accessories

SFP :	S20 Series
SFP :	S25 Series (wide-temp)
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



As a company of innovation, UTC Technologies reserves the right to change product specifications without notice. For the latest product specifications, visit UTC

Technologies online or contact your sales representative.

