

MC250-4T/2S

4-Port Ethernet to SFP Industrial Media Converter

Overview

IFS Ethernet to SFP Industrial Media Converters offer four 10/100Mbps Ethernet ports and 100Base-FX transmission on either multi-mode or single mode optical utilizing SFP technology. 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 the 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. The MC251-4P/1S model provides full IEEE802.3-af (15.4w) on each individual 4 ports, while the MC250-4T/2S model is a non-PoE unit designed for drop-and-repeat applications.

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.



Details

- 4 RJ-45 Ports 10/100Base-TX
- Auto MDI/MDI-X
- Auto-negotiation
- 2 SFP Ports - Drop-and-Repeat
- 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
- 24 ~ 48VDC or 24VAC Operation (MC251-4P/1S)
- 12 ~ 48VDC Operation (MC250-4T/2S)
- Redundant power with reverse-polarity protection
- Removable terminal block for master and slave power
- Alarm relay output for power-failure alert
- Voltage/surge-suppression
- Complies with IEC60068-2-xx standards for free-fall, shock and vibration
- Wide operating temperature range of -40°C ~ +75°C

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Technical specifications

General

Category	Industrial
Type	Ethernet to SFP
Switch throughput (Mpps)	0.892
Mac table	2 K
Drop and repeat	Yes
Fault relay output	Yes

Connections

No. of ports	4
Port speed	Fast
Port type	10/100
Fiber port	2
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	16 W
PoE	No

Physical

Physical dimensions	32 x 87 x 135 mm
Net weight	442 g
Switch fabric	1.2 Gbps
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

RJ45 Ports

10/100Base-TX Connectors	RJ-45 (4)
Port Configuration	Auto MDI/MDI-X
Port Speed	Auto-negotiate
Electro Static Discharge (ESD) Protection	6 kVDC

SFP Ports

Data Rate	100 Base-FX/BX/LX
# of SFP Ports	2
Optical Fiber Type	Varies by SFP
Optical Distance	Varies by SFP

PoE (MC251-4P/1S only)

PoE Standard	IEEE 802.3af Power over Ethernet / PSE
PoE Power Supply Type	End-Span
PoE Power Output	Per Port 48 VDC, 350 mA. Max. 15.4 W
Power Pin Assignment	1/2(+), 3/6(-)

Switch performance

Switch Architecture	Store-and-Forward
Switch Fabric	1.2 Gbps / non-blocking
Throughput (Packet per second)	0.892 Mpps @ 64bytes
Address Table	2 K 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)	100 Mbps Activity - Green; 10 Mbps Activity - Off
Fiber (100Base-FX)	Connected to network - Green
Optical Link	Link established - Steady Green; TX/RX Activity - blinking green
PoE (MC251-4P/1S only)	PoE in use - Amber -

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
Mounting	DIN-rail kit and wall-mount ears

Standards Compliance

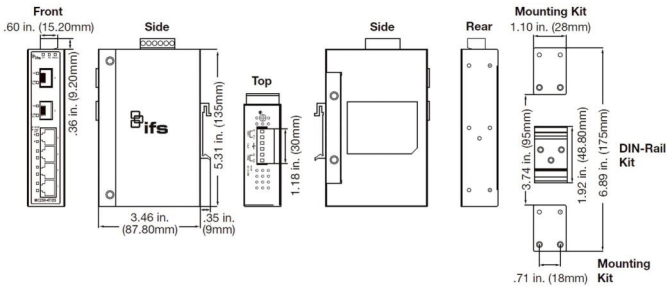
IEEE Standards	IEEE 802.3 10Base-T; IEEE 802.3u 100Base-TX /100Base-FX; IEEE 802.3x Flow Control and Back pressure IEEE802.3-af PoE (15.4w) - MC251-4P/1S only
IEC Standards	IEC60068-2-32 (Free fall) IEC60068-2-27 (Shock) IEC60068-2-6 (Vibration)
EIA/TIA-568 Standards	2-Pair UTP Cat. 3, 4, 5 (100meters, max.) EIA/TIA-568 100-ohm STP (100meters, max.)
Regulation	FCC Part 15 Class A, CE

Accessories

SFP	S20 Series
SFP	S25 Series (wide-temp)

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