

MC251-4P/1S

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 w/PoE
- Auto MDI/MDI-X
- Auto-negotiation
- 1 SFP Port (MC251-4P/1S)
- 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)
- Up to 4 IEEE 802.3af devices powered
- Complies with IEEE 802.3af Power over Ethernet End-Span PSE
- Supports up to 15.4 watts for each PoE port
- Auto detect powered device (PD)
- Circuit protection prevents power interference between ports
- Remote power feeding up to 328 ft. (100m)
- Robust Hardened Design
- Provides either DIN-rail or wall-mounting
- 24 ~ 48VDC or 24VAC Operation (MC251-4P/1S)
- Redundant power with reverse-polarity protection
- 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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Technische specificaties

Algemeen

Categorie	Industrial
Type	Ethernet naar SFP
Switch-doorvoer (Mpps)	0.744
MAC-tabel	2 K
Storingsrelais uitgang	Ja

Aansluitingen

Aantal poorten	4
Poortsnelheid	Snel
Type poort	10/100
Glasvezelpoort	1
Type glasvezelpoort	SFP
Glasvezelpoort snelheid	100Base FX/LX/BX
Ondersteunde SFP's	S20/S25 series
Glasvezelafstand	SFP dependant
Glasvezelconnector	LC
Golflengte	SFP dependant

Elektrisch

Type voeding	24 tot 48 VDC, 24 VAC
Vermogensverbruik	77 W max.
PoE	Ja
PoE / PoE+	4 ports PoE (802.3af)

Fysiek

Fysieke afmetingen	56 x 87 x 135 mm, 2.20 x 3.46 x 5.31 in (W x D x H)
Netto gewicht	842 g, 1.86 lbs
Switch fabric	1 Gbps
Type montage	DIN-rail, Muurmontage

Omgeving

Bedrijfstemperatuur	-40 to +75°C
Opslagtemperatuur	-40 to +85°C
Relatieve vochtigheid	0 to 90% noncondensing
IP-classificatie	IP30

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	100Base-FX/BX/LX
# of SFP Ports	1
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(-)

Performances des commutateurs

Switch Architecture	Store-and-Forward
Switch Fabric	1 Gbps / non-blocking
Throughput (Packet per second)	0.744 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)	100Mbps Activity - Green; 10Mbps 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

Environnement

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 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

Accessoires

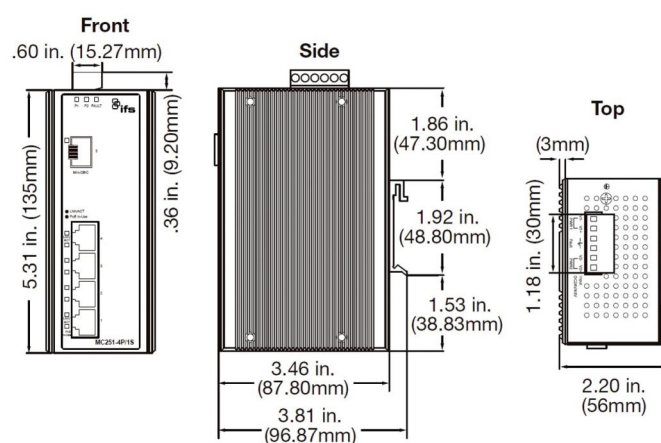
SFP	S20 Series
SFP	S25 Series (wide-temp)

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Compatibele producten

Categorie	Referentie	Beschrijving
Voedingen	PS48VDC240W-DIN	48VDC 240W POWER SUPPLY WITH DIN RAIL MOUNT



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