MC352-4P-2S-V2

4-Port Gigabit Ethernet to 2-Port SFP Industrial Media Converter

Overview

The IFS® 4-Port Gigabit Ethernet to 2-Port SFP Industrial Media Converter is designed for the most demanding IP network applications offering the flexibility of SFP technology and wide operating temperature range. The MC352-4P-2S-V2 model provides full IEEE802.3-at (30w) PoE and serves as a PSE device.

SFP Technology

This model converts 10/100/1000Base-T Ethernet on copper to 100Base-X or 1000Base-X fiber via Small Form-factor Pluggable (SFP) technology. The 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.

Flexible Drop-and-Repeat or Redundant Path Operation

These models support 2 SFP ports that can easily be configured for either drop-and-repeat or redundant path operation. In drop and-repeat mode, the units operates like a 6-port switch and can be used as a repeater with an electrical drop or simply as an optical repeater/extender. In redundant path mode, the unit will quickly switch to the second SFP port as a redundant path if the primary optical path experiences an optical cable failure. Also, if the primary destination port link is down, the module will forward the data packet to the redundant path providing a highly fault-tolerant solution for mission critical IP applications.



Details

- 10/100/1000 Base-SX/BX/LX/LHX/ZX and 100 Base-FX/BX/LX
- 10/100/1000Base-T: 2-pair Cat. 5e/6 UTP cable, up to 100 meters
- Complies with IEEE 802.3at and is backwards compatible with IEEE802.3af
- Inserts 52VDC (30w) power on Category network cable
- 2 SFP slots provide for custom configuration
- Optical fiber and distance varies by SFP (ordered separately)
- Plug-n-play installation
- Slim IP30 metal enclosure
- DIN-rail or wall-mounting
- 12 to 56 VDC, 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
- Wide operating temperature range of -40°C ~ +75°C
- Protects non-PoE devices if accidentally connected

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Technical specifications

General

Category	Industrial
Type	Ethernet to SFP
Switch throughput (Mpps)	8.93
Mac table	4 K
Drop and repeat	Yes
Fault relay output	Yes
Compatible with MCR rack	No

Connections

No. of ports	4
Port speed	Gigabit
Port type	10/100/1000
Fiber port	2
Fiber port type	SFP
Fiber port speed	1000Base SX/BX/LX/LHX/ZXor 100Base FX/LX/BX
Supported SFPs	S20/S25 series, S30/S35 series
Fiber distance	SFP dependant
Fiber connector	LC
Wavelength	SFP dependant

Electrical

Operating voltage	12 to 56 VDC
Power consumption	135 W (Max)
PoE	Yes
PoE/PoE+	4 port PoE+ (802.3at)
Redundant power	Yes

Physical

Physical dimensions	135 x 87 x 32 mm
Net weight	1.539 kg
Mounting type	DIN-rail, Wall mount

Environmental

Operating temperature	-40 to +75°C
IP rating	IP30

Ethernet

Data Rate	10/100/1000 Base-T
Throughput (packet per second)	1,488,000pps
Switch Architecture	Store-and-forward
Jumbo Packet Size	9K
Flow Control	Back Pressure for Half Duplex, Mode Pause for Full-Duplex Mode IEEE 802.3x
Connector	RJ-45 (Auto-MDI/MDI-X)
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.) / 1000 Base-T: 4-pair UTP Cat. 5e, 6 up to 100m (328 ft.)

PoE Support

PoE Standard	IEEE 802.3af / 802.3at High Power over Ethernet / PSE
Power PIN Assignment	End-Span, (+) Pins 1 & 2; (–) Pins 3 & 6
Power Output per Port	52VDC 15.4 Watts or 52VDC 30 Watts
Connector	SFP (Mini-GBIC) port

LED Indicators & Controls

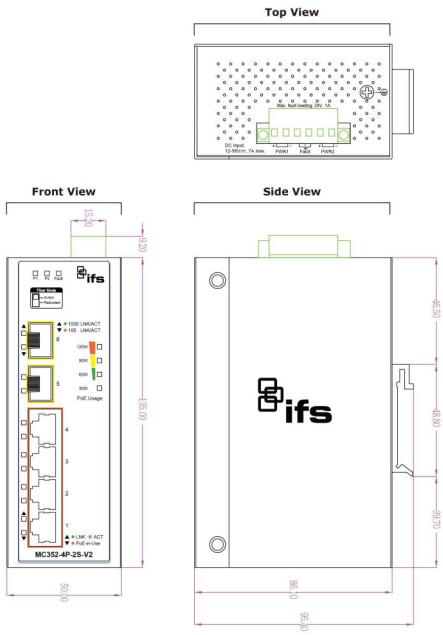
Power/Status	Green/On – power
10/100/1000Base-TX port	Green/On – active port (TX/RX), Amber/On – PoE in-use
SFP (Mini-GBIC) port link	Green/On – link established

Standards Compliance

IEEE	IEEE 802.3 10Base-T / IEEE 802.3u 100Base-TX /100Base-FX / IEEE 802.3ab 1000Base-TX / IEEE 802.3z 1000Base-SX/LX/BX / IEEE 802.3x Flow Control and Back Pressure
EMI	EN 55022 CLASS A / EN61000-3-2:2006 / EN61000-3-3: 1995+1A:2001+A2:2005
EMS	EN 55024:1998+A1:2001+A2:2003 / 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

Accessories

PS48VDC240W-DIN



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