



# MC350-4T-2S

## 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.

### 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 unit 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
- 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 48 VDC or 24VAC, 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

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### Technical specifications

#### General

Category	Industrial
Type	Ethernet to SFP
Switch throughput (Mpps)	14.8
Drop and repeat	Yes
Fault relay output	Yes

#### 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/ZX or 100Base FX/LX/BX
Supported SFPs	S20/S25 series, S30/S35 series
Fiber distance	SFP dependant
Fiber connector	LC
Wavelength	SFP dependant

#### Electrical

Power supply type	12 to 48 VDC
Power supply value	24 to 48 VDC or 24 VAC
Power consumption	7.2 W
PoE	No
Redundant power	Yes

#### Physical

Physical dimensions	135 x 87 x 32 mm, 1.25 x 5.32 x 3.43 in. (H x W x D)
Net weight	500 g, 1.2 lbs.
Mounting type	DIN-rail, Wall mount

#### Environmental

Operating temperature	-40 to +75°C
Storage temperature	-40 to +85°C
Relative humidity	5 to 90% noncondensing
IP rating	IP30
MTBF	>50,000 h @ 25°C

#### Ethernet

Data Rate	10/100/1000 Base-T
Throughput (packet per second)	1,488,000 pps
Switch Architecture	Store-and-forward
Jumbo Packet Size	9 K
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.)

#### Fiber

Data Rate	100Base-FX/BX/LX and 1000Base-SX/BX/LX/LHX/ZX
Connector	SFP (Mini-GBIC) port
Fiber Type and Distance	Varies by SFP module

#### LED Indicators & Controls

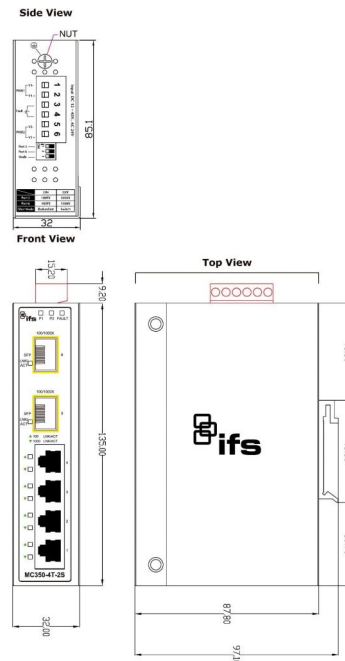
Power/Status	Green/On - power
10/100/1000Base-TX port	Green/On - active port (TX/RX)
SFP (Mini-GBIC) port link	Green/On - link established

#### Electrical & Mechanical

Enclosure	IP30 rated metal enclosure
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#### 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



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