MC350-4T-2S
MC352-4P-2S

4-Port Gigabit to 2-Port SFP Industrial Media Converters

MC350-4T-2S
Non-PoE

MC352-4P-2S
PoE+ Support

OVERVIEW

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

SFP Technology

These models convert 10/100/1000Base-T Ethernet on copper to 100Base-X or 1000Base-X fiber via Small Form-factor Pluggable (SFP) technology. These media converters 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.

STANDARD FEATURES

Ethernet

- 10/100/1000 Base-T
- Complies with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab
- Auto-negotiation and MDI/MDI-X
- 10/100/1000Base-T: 4-pair Cat. 5e/6 UTP cable, up to 100 meters

SFP (Mini-GBIC) Port

- Supports Fast or GigE SFPs
- 2 SFP slots provide for custom configuration
- Optical fiber and distance varies by SFP (ordered separately)

Power over Ethernet (MC352-4P-2S)

- Complies with IEEE 802.3at
- Inserts 52VDC (30w) power on Category network cable
- Protects non-PoE devices if accidentally connected
- Backwards compatible with IEEE802.3af

Installation & Diagnostics

- Plug-n-play installation
- LED indicators for easy local network diagnostics
- Firmware upgradable via remote Web interface
- Reset button at the front panel for resetting to factory default

Robust Hardened Design

- Slim IP30 metal enclosure
- DIN-rail or wall-mounting
- 12 ~ 48VDC or 24VAC Operation (MC350-4T-2S)
- 48VDC Operation (MC352-4P-2S)
- Redundant power with reverse-polarity protection
- Alarm relay output for port breakdown and power-failure alert
- Voltage/surge-suppression
  - EFT 6000VDC protection for power lines
  - ESD 6000VDC protection for Ethernet
- Complies with IEC60068-2-xx standards for free-fall, shock and vibration
- Wide operating temperature range of up to -40ºC ~ +75ºC

Warranty

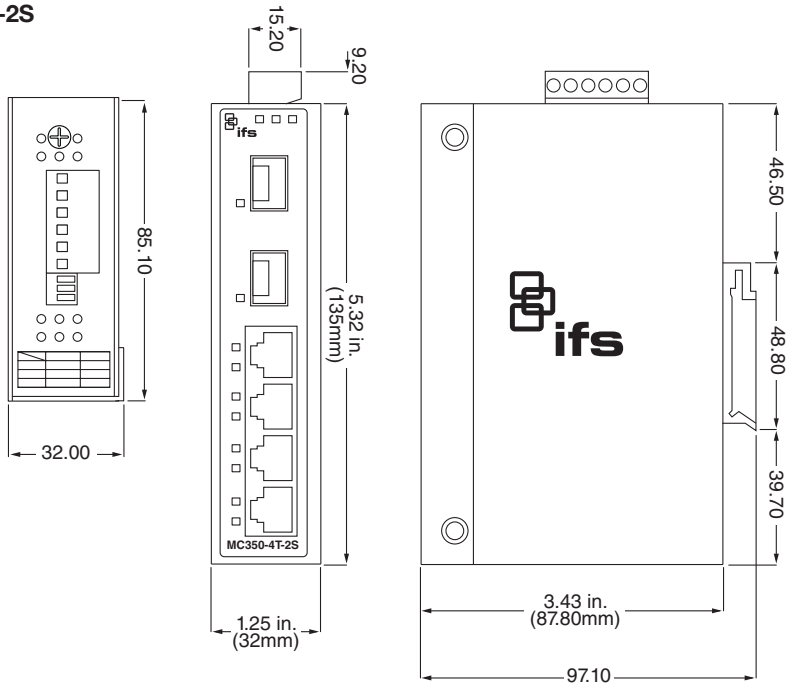
- 3-year warranty

Specifications

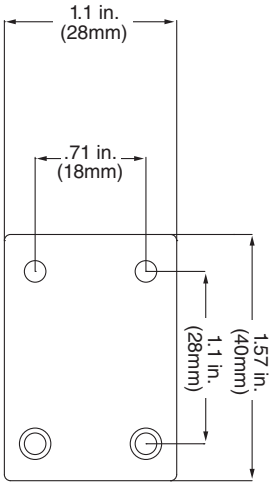
Ethernet	MC350-4T-2S	MC352-4P-2S
Data Rate	10/100/1000Base-TX port	
Throughput (packet per second)	1,488,000pps	
Switch Architecture	Store-and-forward	
Jumbo Packet Size	9K	
Flow Control	Back Pressure for Half Duplex, Mode Pause for Full-Duplex Mode IEEE 802.3x	
Connector	RJ-45 (Auto-MDI/MDI-X)	
Electro Static Discharge (ESD) Protection	6KVDC	
Cable Type and Distance	10Base-T: 2-pair UTP Cat. 3,4,5, up to 100m (328 ft.) 100Base-TX: 2-pair UTP Cat. 5e, up to 100m (328 ft.) 1000Base-T: 4-pair UTP Cat. 5e, 6 up to 100m (328 ft.)	
Fiber		
Data Rate	100Base-FX and 1000Base-SX/LX/BX	
Connector	SFP (Mini-GBIC) port	
Fiber Type and Distance	Varies by SFP module	
Power over Ethernet (PoE) Injector (MC352-4P-2S Only)		
PoE Standard	N/A	IEEE 802.3af / 802.3at High Power over Ethernet / PSE
Power PIN Assignment	N/A	End-Span, (+) Pins 1 & 2; (–) Pins 3 & 6
Power Output per Port	N/A	52VDC 15.4 Watts or 52VDC 30 Watts
LED Indicators & Controls		
Power/Status	Green/On – power	
Power Fault	Proper Operation – Off; Fault – Green	
10/100/1000Base-TX port	Green/On – active port (TX/RX)	Green/On – active port (TX/RX); Amber/On – PoE in-use
SFP (Mini-GBIC) port link	Green/On – link established	
Electrical & Mechanical		
Power (Redundant with reverse polarity protect function)	12 ~ 48VDC or 24VAC (7.2watts)	48VDC (15.1 watts no PoE; 135.1W full load)
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)	1.25 x 5.32 x 3.43 in. (32 x 135 x 87mm)	2.8 x 5.9 x 4.2 in. (72 x 152 x 107mm)
Weight	1.2 lbs. / 500 grams	3.39 lbs. / 1539 grams
Environmental		
Operating Temperature	-40°C~+75°C	
Storage Temperature	-40°C~+75°C	
Relative Humidity	0%~95% (non-condensing)	
MTBF	> 50,000 hrs @ 25°C	
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	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 IEEE 802.3af Power over Ethernet IEEE 802.3at High Power over Ethernet
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	
Stability	IEC60068-2-32(Free fall) IEC60068-2-27(Shock) IEC60068-2-6(Vibration)	

Dimensional Diagrams

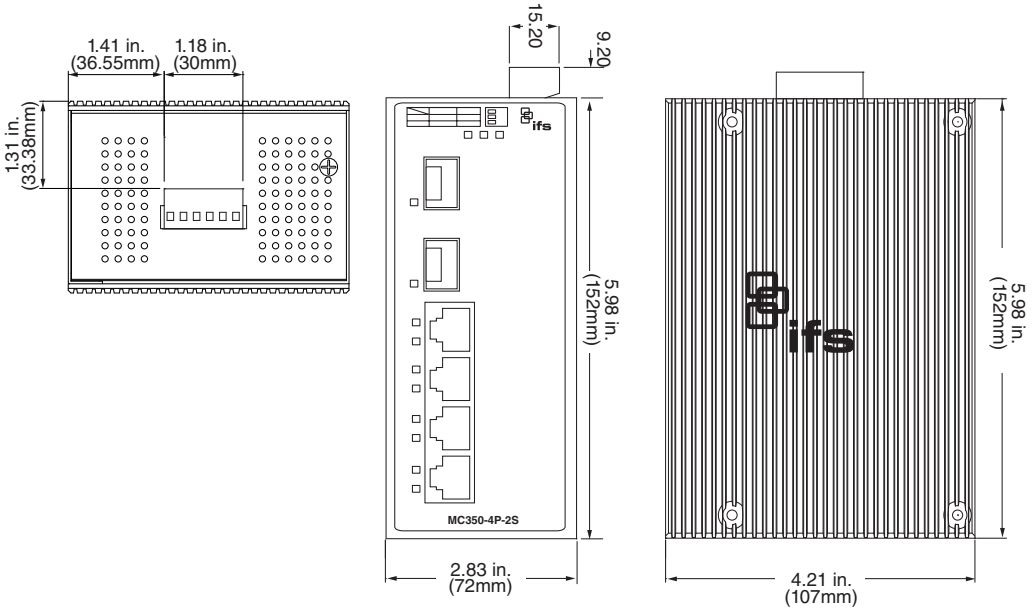
MC350-4T-2S



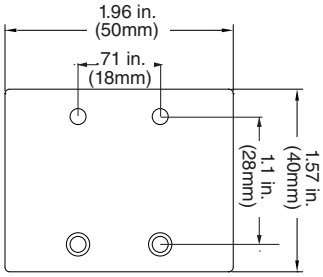
Mounting Kit



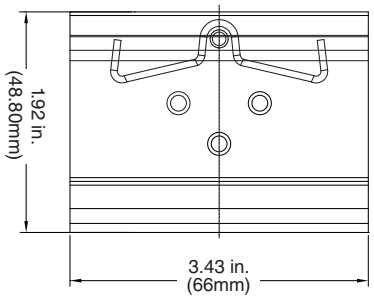
MC352-4P-2S



Mounting Kit



DIN-Rail Kit



MC350-4T-2S
MC352-4P-2S

4-Port Gigabit to 2-Port SFP
Industrial Media Converters

North America
T 855-286-8889

Latin America
T 561-998-6114

Ordering Information

MC350-4T-2S	4-Port Gigabit to 2-Port SFP Industrial Media Converter
MC352-4P-2S	4-Port Gigabit PoE+ to 2-Port SFP Industrial Media Converter
Included Accessories	User's Manual, DIN Rail Kit, Wall Mount Kit

Note: These units require a Small Form-factor Pluggable (SFP) for operation. IFS SFPs are available for multi-mode, single mode, 1 or 2 fibers for various transmission distances over optical fiber. Please refer to the IFS SFP data sheet to select the appropriate SFP for your particular application needs. It is recommended that Gigabit SFPs be used for best performance.

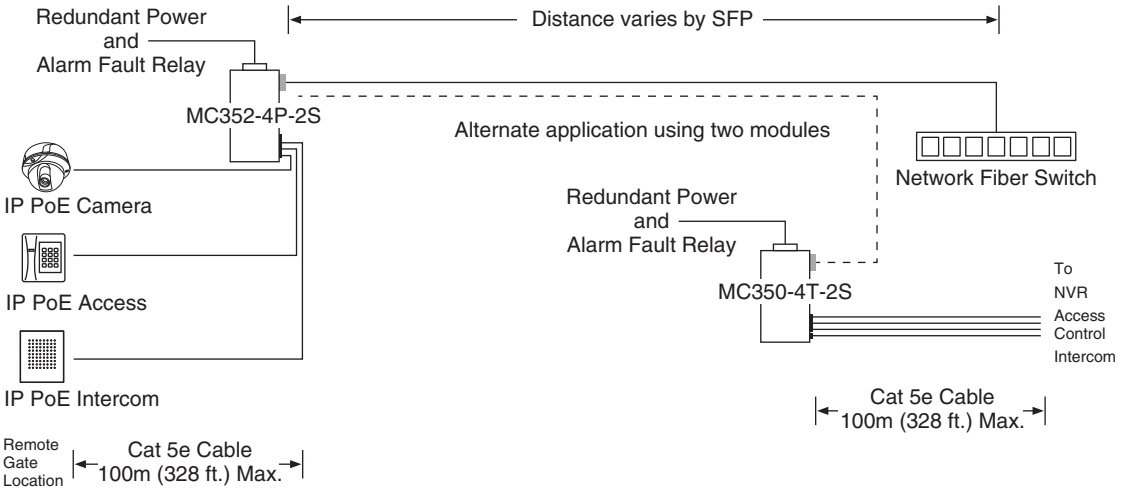
Note: External power supply must be ordered separately.

Accessories

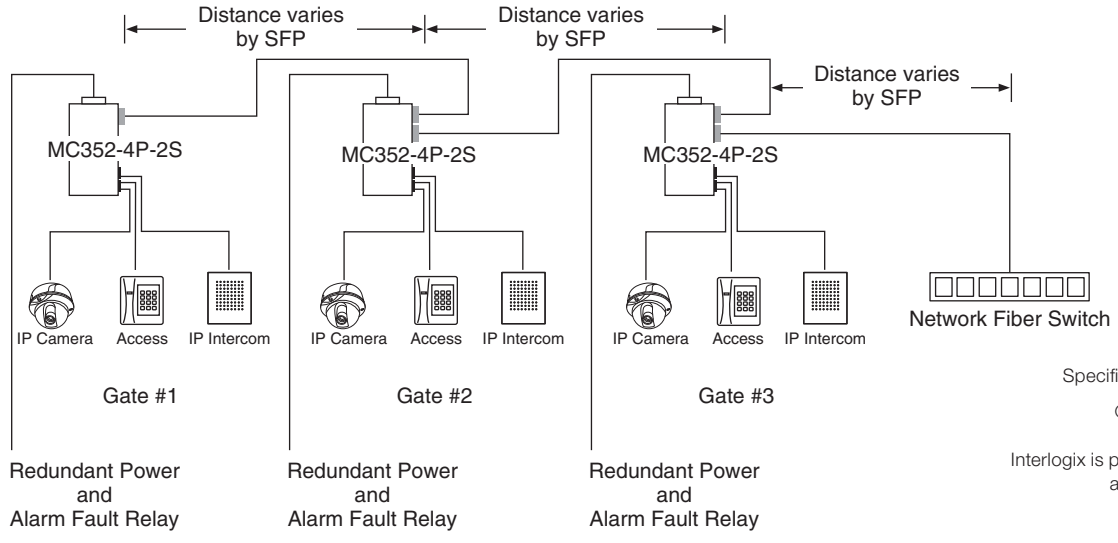
SFP	S30 Series
SFP	S35 Series (wide-temp)
SFP	S20 Series
SFP	S25 Series (wide-temp)
PS12VDC1.5A-U	12VDC, 1.5A External Power Supply (for use w/MC350-4T-2S only)
PS48VDC240W-DIN	48VDC, 5A (240W) DIN-Rail Mount Hardened Power Supply (100~240VAC)

Typical Applications

Point-to-Point Application



Drop-and-Repeat Application



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Specifications subject to change without notice.

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