

MC352-1P/1S

Gigabit Ethernet to SFP Industrial Managed Media Converter

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 MC352-1P/1S 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 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.



Standard Features

- 10/100/1000 Base-SX/BX/LX/LHX/ZX and 100 Base-FX/BX/LX
- 10/100Base-TX: 2-pair Cat. 5e/6 UTP cable, up to 100 meters
- 1 SFP slot provides custom configuration
- Optical fiber and distance varies by SFP (ordered separately)
- Plug-n-play installation
- Slim IP30 metal enclosure
- DIN-rail or wall-mounting
- 24 to 48 VDC with 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
- Power over Ethernet
- 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

MC352-1P/1S

Gigabit Ethernet to SFP Industrial Managed Media Converter

Specifications

Ethernet	
Data Rate	100Base-FX/BX/LX and 1000Base-SX/BX/LX/LHX/ZX
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.)
Fiber	
Data Rate	1000Base-SX/LX/BX 802.3z
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), Amber/On – PoE in-use
SFP (Mini-GBIC) port link	Green/On – link established
Reset button	Reset to factory default settings
Electrical & Mechanical	
Power	24 ~ 48VDC, 1.4A (33watts)
Enclosure	Metal
Dimensions (H x W x D)	5.31 x 3.34 x 1.25 in. (135 x 85 x 32mm)
Weight	1.2 lbs. / 500 grams
Environmental	
Operating Temperature	-40°C ~ +75°C
Storage Temperature	-40°C ~ +85°C
Relative Humidity	5% ~ 90% (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 802.3Q VLAN Tagging / IEEE 802.3x Flow Control and Back Pressure / IEEE 802.3p Class of Service
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	
PS48VDC65W	48 VDC in line power supply (65 Watt)
PS48VDC100W-DIN	48 VDC Din Rail power supply (100 Watt)

Ordering Information

Part No.	Description
MC352-1P/1S	Gigabit Ethernet to SFP Industrial Managed Media Converter

