UTC Fire & Security
A United Technologies Company

MC350-1T-2S

Gigabit Ethernet to 2-Port SFP Industrial Media Converter

Overview

The IFS® 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.

Standard Features

- 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
- Protects non-PoE devices if accidentally connected

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Specifications

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.)

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), Amber/On – PoE in-use
SFP (Mini-GBIC) port link	Green/On – link established

Electrical & Mechanical

Power	24 ~ 48VDC or 24VAC, (4,8watts)
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)
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 802.3x 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

613P-EU	12VDC@1.5A External Power Supply
613P-UK	12VDC@1.5A External Power Supply

Ordering Information

Part No.	Description
MC350-1T-2S	Gigabit Ethernet to 2-Port SFP Industrial Media Converter

Side View

Front View

Top View

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