Product Data Sheet

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.

Enhanced Remote Management Features

For efficient management, the IFS MC355-1T/1S model supports Simple Network Management Protocol (SNMP) and can be remotely managed via any standards-based management software.

Management functions include IP address configuration, DHCP Client function, port configuration, converter configuration, 802.1Q VLAN tagging, Q-in-Q VLAN, Ingress/Egress bandwidth control, QoS and Layer protocol filter, and broadcast storm control, to enhance bandwidth utilization.

In addition, the TS-1000/802.3ah OAM (operations, administration, and maintenance) protocol is supported which allows management and monitoring of a remote device via the MC355-1T/1S media converter.

Standard Features

- 10/100/1000 Base-SX/BX/LX/LHX/ZX
- 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
- 12 to 48 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 -30º C ~ +75º C
- Layer 2 management
- Built-in IP-based Web interface for remote management
- SNMP v1 / v2c monitor / private Enterprise MIB
- Loop detection / broadcast / multicast / unicast storm control
- Supports 100Base-FX/BX/LX
- 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

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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 or 24VAC, 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 -30°C ~ +75°C
- Storage Temperature -40°C ~ +85°C
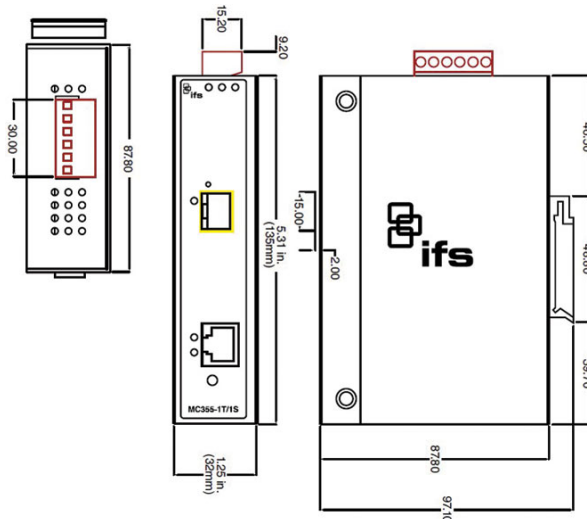- Relative Humidity 5% ~ 90% (non-condensing)
- MTBF > 50,000 hrs @ 25°C

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 / 02.3Q VLAN Tagging / IEEE 802.3x   Flow Control and Back Pressure / IEEE 802.3p Class of Servic
- 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

MC352-1P/1S
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Diagram

UTC Fire & Security
A United Technologies Company