

MC355-1T/1S

Gigabit Ethernet to SFP Industrial Managed Media Converter

Overview

The IFS Gigabit Ethernet to SFP Industrial Managed Media Converter is designed for the most demanding IP network applications offering the flexibility of SFP technology and remote network management for optimizing network performance with wide operating temperature range.

SFP Technology

The IFS MC355-1T/1S converts a 10/100/1000Mbps (TX) Ethernet on copper to 1000Mbps (FX) fiber via Small Form-format Pluggable (SFP) technology. This 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.

Enhanced Remote Management Features

For efficient management, the IFS Gigabit Ethernet to SFP Industrial Managed Media converter 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.



Caratteristiche standard

- 10/100/1000 Base-TX
- Complies with IEEE 802.3, IEEE 802.3u IEEE 802.3ab
- Auto-negotiation and MDI/MDI-X
- 10/100Base-TX: 2-pair Cat. 5e/6 UTP cable, up to 100 meters
- IEEE 802.3z 1000Base-SX/LX/BX standard
- 1 SFP slot provides custom configuration
- Optical fiber and distance varies by SFP (ordered separately)
- Plug-n-play installation
- LED indicators for easy local network diagnostics
- 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 -30° C ~ +75° 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

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| Ethernet | |
|--------------------------------|--|
| Data Rate | 10/100/1000 Base-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) |
| 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) |
| SFP (Mini-GBIC) port link | Green/On – link established |
| Reset button | Reset to factory default settings |
| Electrical & Mechanical | |
| Power | 12 to 48 VDC, .65A (7.9 watts) |
| Enclosure | Metal |
| Dimensions (H x W x D) | 5.31 x 3.34 x 1.25 in. (135 x 85 x 32mm) |
| Weight | 0.93 lbs. / 423 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 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 | |
| 613P-EU | 12VDC@1.5A External Power Supply |
| 613P-UK | 12VDC@1.5A External Power Supply |
| PS5VDC2A-US: | 5VDC 2A Wall Mounted Power Supply |
| PS5VDC2A-UK: | 5VDC 2A Wall Mounted Power Supply |
| PS5VDC2A-EU: | 5VDC 2A Wall Mounted Power Supply |
| MCR-R15 | MCR Series Media Converter Chassis |

Come ordinare

| Codice prodotto | Descrizione |
|-----------------|--|
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