

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.



Details

- 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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Technical Specifications

General

Type	Ethernet to SFP
Switch throughput (Mpps)	14.8
Fault relay output	Yes

Connections

Fiber port type	SFP
Fiber port speed	1000Base SX/BX/LX/LHX/ZX ve100Base FX/LX/BX
Fiber distance	SFP dependant
Fiber connector	LC
Port speed	Gigabit
No. of ports	1
Port type	10/100/1000
Fiber port	1
Supported SFP's	S20/S25 series, S30/S35 series
Wavelength	SFP dependant

Physical

Physical dimensions	32 x 87 x 135 mm
Net weight	423 g
Mounting type	DIN-rail, Wall mount

Environmental

Operating temperature	-30 to +75°C
IP-rating	IP30
Operating Temperature	-30°C ~ +75°C
Storage Temperature	-40°C ~ +85°C
Relative Humidity	5% ~ 90% (non-condensing)
MTBF	> 50,000 hrs @ 25°C

Electrical

Power supply type	12 to 48 VDC
Power consumption	7.9 W
PoE	No
Redundant power	Yes

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

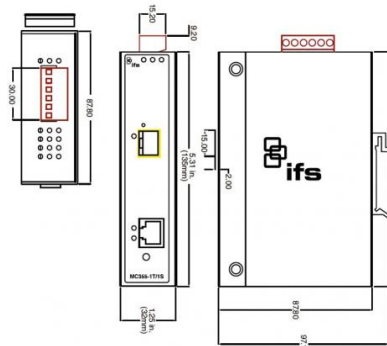
Power	12 to 48 VDC, .65A (7.9 watts)
Enclosure	Metal
Dimensions (H x W x D)	5.31 x 3.34 x 1.25 in. (135 x 85 x 32mm)
Weight	0.93 lbs. / 423 grams

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



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