



## Product Data Sheet

# MCR205-1T/1S

## Fast Ethernet to SFP Managed Media Converter

### Overview

The IFS Fast Ethernet to SFP 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.

### SFP Technology

The IFS MCR205-1T/1S converts 10/100Mbps (TX) Ethernet on copper to 100Mbps (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 Fast Ethernet to SFP 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 MCR205-1T/1S media converter.

### Unified Enclosure Design

The MCR205-1T/1S is designed with a unified enclosure that can be used in a standalone installation or can easily be inserted into the IFS MCR-R15 media converter rack. The IFS Media Converter Rack can provide DC power for up to 15 MCR Series Media Converters.

### Standard Features

- 10/100 Base-TX
- Complies with IEEE 802.3, IEEE 802.3u
- Auto-negotiation and MDI/MDI-X
- 10/100Base-TX: 2-pair Cat. 3/4/5 UTP cable, up to 100 meters
- IEEE 802.3u 100Base-FX standard
- 1 SFP slot provides custom configuration
- Optical fiber and distance varies by SFP (ordered separately)
- Plug-n-Play installation
- Unified design for stand-alone or rack-mount installation (MCR-R15 chassis)
- LED indicators for easy local network diagnostics
- Firmware upgradable via remote web interface
- Reset button to reset to factory default
- 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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## Fast Ethernet to SFP Managed Media Converter

### Specifications

#### Ethernet

- Data Rate 10/100 Base-TX port
- Throughput (packet per second) 148810pps @ 64Bytes
- Switch Architecture Store-and-forward
- Flow Control Half/Full-duplex
- Connector RJ-45 (Auto-MDI/MDI-X)
- Cable Type and Distance 10Base-T: 2-pair UTP Cat. 3,4,5, up to 100 m100Base-TX: 2-pair UTP Cat. 5, up to 100 m

#### Fiber

- Data Rate 100Base-FX
- Connector SFP (Mini-GBIC) port
- Fiber Type and Distance Varies by SFP module

#### LED Indicators & Controls

- Power/Status Green/On – power detected (+5VDC)
- 10/100Base-TX port link/activity Green/On – link establishedGreen/blinking – active port (TX/RX)
- 10/100Base-TX port speed Green/On – 100Mbps half/full duplex mode operation Green/Off – 10Mbps half/full duplex mode operation
- SFP (Mini-GBIC) port link Green/On – link establishedGreen/blinking – active port (TX/RX)
- Reset button Reset to factory default settings

#### Electrical & Mechanical

- Power 5VDC, 2A (3.3 watts)
- Enclosure Metal
- Dimensions (W x D x H) 3.82 x 2.76 x 1.02 in. (97 x 70 x 26mm)
- Weight 0.41 lbs. / 190 grams

#### Environmental

- Operating Temperature 0°C ~ 50°C
- Storage Temperature -10°C ~ 70°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 / IEEE 802.3u, 100Base-FX
- 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

- 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

### Ordering Information

MCR205-1T/1S

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