



## Product data sheet

# MCR300-1T-1S-V2

## 10/100/1000 Base-T to 100/1000 SFP Media Converter

### OVERVIEW

The IFS Gigabit Ethernet to SFP Media Converter is designed for the most demanding extended IP network applications offering the flexibility of SFP technology for Gigabit Ethernet transmission over optical fiber.

### SFP Technology

The IFS MCR300-1T-1S-V2 converts 10/100/1000Base-T Ethernet on copper to 100Base FX/LX/BX or 1000Base SX/BX/LX/LHX/ZX optical 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 Smart Link Management

The MCR300-1T-1S-V2 provides Auto MDI/MDI-X on its TP port and a DIP-switch to configure the Link Fault Pass-through function (LFP). The LFP function includes both Link Loss Carry Forward (LLCF) and Link Loss Return (LLR). The LLCF/LLR function combination provides efficient TP and optical transmission media monitoring and enables immediate alarm notification to network administrators in the event of a link problem.

### Unified Enclosure Design

The MCR300-1T-1S-V2 is designed with a unified enclosure that can be used in a stand-alone 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.



### Details

- 10/100/1000Base-TX
- Auto-negotiation and Auto-MDI/MDI-X
- 9K jumbo frame supported
- 100Base FX/LX/BX or 1000Base SX/BX/LX/LHX/ZX SFP optic compatible
- 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
- DIP-switch for LFP function (Enable / Disable) setting
- Unified design for stand-alone or rack mount installation (MCR-R15 chassis)

# MCR300-1T-1S-V2

## 10/100/1000 Base-T to 100/1000 SFP Media Converter

### Technical specifications

#### Allgemein

Typ	Ethernet zu SFP
Switch-Durchsatz (Mpps)	14.8
Kompatibel mit MCR-Rack	Ja

#### Verbindungen

Anzahl der Ports	1
Port-Geschwindigkeit	Gigabit
Porttyp	10/100/1000
Glasfaser-Port	1
Glasfaser-Port-Typ	SFP
Glasfaser-Port-Geschwindigkeit	100Base FX/LX/BX or 1000Base SX/BX/LX/LHX/ZX
Unterstützte SFPs	S2x und S3x Serie
Distanz für Glasfaser	SFP abhängig
Glasfaseranschluss	LC
Wellenlänge	SFP abhängig

#### Physikalische Angaben

Abmessungen	97 x 70 x 26 mm
Nettogewicht	190 g
Montage	Wandmontage

#### Umweltbedingungen

Betriebstemperatur	0 to +50°C
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#### Elektrische Angaben

Netzteil	5 VDC
Energieverbrauch	5.6 W
PoE	Nein

#### Ethernet

Data Rate	10/100/1000Mbps
OAM	TS-1000, IEEE 802.3ah terminal
Jumbo Packet Size	9K
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 m / 100Base-TX: 2-pair UTP Cat. 5, up to 100 m / 1000Base-T : 2-pair UTP Cat. 5/5e/6, up to 100m

#### LED Indicators & Controls

Power/Status	Green/On - power detected (+5VDC)
10/100/1000Base-T port link/activity	Green/On - link established / Green/blinking - active port (TX/RX)
10/100/1000Base-T port speed	Green/On - 1000Mbps full duplex mode operation / Green/Off - 10/100Mbps full duplex mode operation
SFP (Mini-GBIC) port link	Green/On - link established / Green/blinking - active port (TX/RX)
DIP switch	LFP function (Enable/Disable) setting

#### Standards Compliance

IEEE	IEEE 802.3, 10Base-T / IEEE 802.3u, 100Base-TX / IEEE 802.3ab 1000Base-T / IEEE 802.3z 1000Base-SX/LX/BX
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-UK	5VDC@2A Wall-mount Power Supply
PS5VDC2A-EU	5VDC@2A Wall-mount Power Supply
MCR-R15	MCR Series Media Converter Chassis

