



# MCR300-1T-2S

## Gigabit Ethernet to 2-Port 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 converts 10/100/1000Base-T Ethernet on copper to 1000Base-LX/SX optical fiber via Small Form-factor 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.

### Flexible Drop-and-Repeat or Redundant Path Operation

The MCR300-1T-2S model, with its 2 SFP ports, can easily be configured for either drop-and-repeat or redundant path operation. In drop-and-repeat mode, the MCR300-1T-2S operates like a 3-port switch and can be used as a repeater with an electrical drop or simply as an optical repeater/extender. In redundant path mode, the MCR300-1T-2S will quickly switch to the second SFP port as a redundant path if the primary optical path experiences an optical cable failure. Also, if the primary destination port link is down, the module will forward the data packet to the redundant path providing a highly fault-tolerant solution for mission critical IP applications.

### Unified Enclosure Design

The MCR300-1T/1S 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.



### Détails

- 10/100/1000Base-T
- Auto-negotiation and Auto-MDI/MDI-X
- Complies with IEEE 802.3 10Base-T; IEEE 802.3u 100Base-TX; and IEEE 802.3ab 1000Base-T
- 9K jumbo frame supported
- IEEE 802.3z 1000Base-LX/SX standards
- 2 SFP slots 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)

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### Spécifications techniques

#### Général

Catégorie	Commercial
Type	Ethernet vers SFP
Débit du switch (Mpps)	14.8
Drop and repeat	Oui
Compatible avec le rack MCR	Oui

#### Connexions

Nombre de ports	1
Vitesse du Port	Gigabit
Type de port	10/100/1000
Port fibre	2
Type de port fibre	SFP
Vitesse du port fibre	1000Base SX/BX/LX/LHX/ZX
Prise en charge SFP	Série S30/S35
Distance de fibre	SFP dépendant
Connecteur fibre optique LC	
Longueur d'onde	SFP dépendant

#### Électrique

Type de bloc d'alimentation	5 VDC
Valeur de l'alimentation	2 A
Consommation électrique	5.6 W
PoE	Non

#### Caractéristiques physiques

Dimensions physiques	97 x 70 x 26 mm, 3.82 x 2.76 x 1.02 in., (W x D x H)
Poids net	190 g, 0.41 lbs.
Matériel	Métal
Type de montage	Fixation murale

#### Environnement

Température de fonctionnement	0 to +50°C
Température de stockage	-10 to +70°C
Humidité relative	5 to 90% noncondensing

#### Ethernet

Data Rate	10/100/1000 Mbps
Packet Forwarding Rate	1,488,000 pps @ 1000 Mbps
Jumbo Packet Size	9 K
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

#### Fiber

Data Rate	1000Base-LX/SX
Connector	SFP (Mini-GBIC) port
Fiber Type and Distance	Varies by SFP module

#### LED Indicators & Controls

Power/Status	Green/On – power detected (+5 VDC)
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

#### Environmental

MTBF	>50,000 h @ 25°C
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#### 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

#### Produits compatibles

Catégorie	Référence	Description
Accessoires réseau	MCR-R15	Chassis pour Convertisseurs Média avec alimentation interne - 15 slots.
Alimentations	PS5VDC2A-EU	Bloc d'alimentation sur prises EU Entrée: 100-240VAC / Sortie: 5VDC 2A,
Alimentations	PS5VDC2A-UK	5 VDC 2 AMPS. Wall plug PSU - UK

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