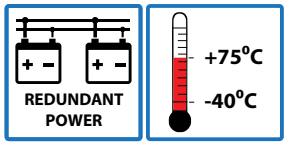
Hardened 2 Port Media Converter
1 Port 10/100TX (RJ45) + 1 Port 100 SFP

MEDIA CONVERTER



FEATURES

- Supports 1 port 10/100Base-TX with auto-negotiation and auto-MDI/MDI-X
- Supports Ethernet to fiber SFP port
- Supports LFP (Link Fault Pass-through) function
- Supports full/half duplex operation
- Supports store and forward transmission
- Redundant power inputs
- Rugged IP-30 housing
- DIN-Rail or panel mounting

DESCRIPTION

Meridian's MC2FT1FX1SFP-M media converter is a cost-effective solution for the conversion between 10/100Base-TX and 100Base-FX interfaces, allowing you to extend communication distance by optical fiber. The MC2FT1FX1SFP-M supports MDI/MDIX auto detection, eliminating the need for crossover cables. The MC2FT1FX1SFP-M has a wide operating temperature range (-40 ~ 75°C) and accepts a wide voltage range from dual 12 ~ 48 VDC power inputs. These operating parameters make it suitable for operation under even the most extreme environments.

The MC2FT1FX1SFP-M also supporst the LFP (Link Fault Pass-through) feature. Configured from the front-panel DIP switch, this LFP function will force the link to shutdown when it has detected a failure from the signal source. This feature enhances the overall reliability and fault detection capability of the network. The MC2FT1FX1SFP-M is a highly reliable media converter which can operate flawlessly in extreme environments.

SPECIFICATIONS

Physical Ports	
10/100 Base-TX Port in RJ45 Auto MDI/MDIX	1
100Base-FX SFP port	1

Technology	
Ethernet Standards	IEEE 802.3 for 10Base-T, IEEE 802.3u for 100Base-TX and 100Base-FX, IEEE 802.3x for Flow control
Processing	Store-and-Forward
DIP-Switch setting	DIP-Switch 1 for LFP mode selection : (ON) enable / (OFF) disable DIP-Switch 2 for Ethernet speed selection : (ON) 10Mbps / (OFF) 10/100Mbps Auto-negotiate DIP-Switch 3 for Ethernet full/half duplex selection : (ON) Full-duplex / (OFF) Half-Duplex Auto-negotiate DIP-Switch 4 for fiber full/half duplex selection : (ON) Full-Duplex / (OFF) Half-Duplex

LED indicators	
Power indicator	Green : Power LED x 2 (ON : power input on-line / (OFF) power input off-line
10/100Base-TX RJ45 port indicator	Green for port Link/Act – (ON) Link up / (Blinking) Acting / (OFF) Link down Amber for 100Mbps/10Mbps indicator – (ON) Working at 100Mbps / (OFF) Working at 10Mbps Green for port duplex indicator – (ON) Full-Duplex / (OFF) Half-Duplex
100Base-FX fiber port indicator	Green for fiber port Link/Act - (ON) Link up / (Flash) Acting / (OFF) Link down
LFP statue indicator	Amber LED – (ON) LFP function fail / (OFF) LFP function disable

Power	
Input Power	Dual 12~48 VDC voltage power input at 4-pin terminal block
Power Consumption (Typ.)	2.2 Watts
Overload Current Protection	Yes
Reverse polarity protection	Yes

Physical Characteristic	
Enclosure	IP-30
Dimension (W x D x H)	26.1 (W) x 70 (D) x 95 (H)mm (1.03 x 2.76 x 3.74 inch)
Weight (g)	213 g (0.5 lb.)

Environmental	
Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Temperature	-40 to 75°C (-40 to 167°F)
Operating Humidity	5% to 95% Non-condensing

Regulatory approvals	
EMI	FCC Part 15, CISPR (EN55022) class A
EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11
Shock	IEC60068-2-27
Free Fall	IEC60068-2-32
Vibration	IEC60068-2-6
Safety	EN60950-1

Ordering Information		
Products	**Part Number**	**Description**
	MC2FT1FX1SFP-M	**Hardened 2 Port Media Converter, 1 Port 10/100TX (RJ45) + 1 Port 100 SFP**
Power supplies	**PSH24DC24** **PSH24DC40** **PSH48DC240** **PSH48DC480**	**PSH24DC24 - 24VDC @ 1 Amp (24 Watts)** **PSH24DC40 - 24VDC @ 1.7 Amps (40 Watts)** **PSH48DC240 - 24VDC @ 5 Amp Amps (240 Watts)** **PSH48DC480 - 24VDC @ 10 Amp Amps (480 Watts)**
SFP Options	**Refer to Optical SFP Data Sheet for complete part numbers and ordering information**	

Packing List	
MC2FT1FX1SFP-M	**1**
Wall-Mount Kit	**1**
Quick Installation Guide	**1**
Din-Rail Kit (attached)	**1**