MC2FT1FX1POEH | DigiNET

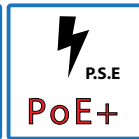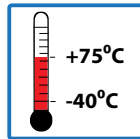## HARDENED MINI TYPE ETHERNET TO FIBER MEDIA CONVERTER WITH 1x 100BASE-T(X) PoE+ PORT AND 1x100BASE-FX SFP PORT

MEDIA CONVERTER

FC CE

+75°C
-40°C

P.S.E
PoE+

FEATURES

- Supports 1 port 100Base-T(X) P.S.E. auto-negotiation and auto-MDI/MDI-X
- Support Ethernet to fiber or Ethernet to SFP port
- Supports IEEE802.3at PoE+(30W)
- Supports Full/Half duplex
- Supports external 100Base SFP
- Supports Auto MDI/MDI-X
- Supports DIN-Rail & Wall-mount installation
- Extensive LED indicators for network diagnostics
- Environmentally hardened -40°C to 75°C (-40°F to 167°F) operating temperature

DESCRIPTION

Meridian's MC2FT1FX1POEH media converter is a cost-effective solution for the conversion between 100Base-T(X) and 100Base-FX interfaces, allowing you to extend communication distance by optical fiber. The MC2FT1FX1POEH supports MDI/MDIX auto detection, eliminating the need for crossover cables. MC2FT1FX1POEH also support Power over Ethernet, a system to transmit electrical power up to 30 watts, along with data, to remote devices over standard twisted-pair cable in an Ethernet network. Each converter has 1x 100Base-T(X) P.S.E. (Power Sourcing Equipment) port to provide power in a PoE setup.

The MC2FT1FX1POEH has a wide operating temperature range (-40 ~ 75°C) and accepts 48 VDC input power.

These operating parameters make it suitable for operation under even the most extreme environments. MC2FT1FX1POEH is a highly reliable media converter with PoE capability which can operate flawlessly in extreme environments.

SPECIFICATIONS

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

Ethernet	
Ethernet Standards	IEEE802.3u 100Base-TX/FX IEEE802.3af Power over Ethernet IEEE802.3at Power over Ethernet Standards: IEEE802.3x Flow Control
Processing	Forward. Half-duplex, Full-duplex
Forward Filter Rate:	148, 800pps (100Mbps)
Cabling:	100Base-TX: Cat5 or above
Maximum Distance:	Cat5 UTP up to 100m
Connector:	1x RJ45
Optical Port:	1 x SFP 100Base-FX

PoE	
Standard	IEEE802.3at
Port	RJ45

LED indicators	
Max. Power	30W Max per port (Alternative B Mode)
Power	Power Status
100TX	Link/Activity, Speed
SFP	Link/Activity

Power	
Input Power	48 VDC (terminal block)
Power Consumption (Typ.)	36 Watts max. 0.75A@48VDC
Overload Current Protection	Yes
Reverse polarity protection	Yes

Physical Characteristic	
Enclosure	Metal Enclosure
Dimension (W x D x H)	28 (W) x 70 (D) x 95 (H)mm (1.03 x 2.76 x 3.74 inch)
Weight (g)	250 g (0.55 lb.)
Mounting Options	DIN-Rail / Wall-mount

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	ISO9001, FCC Part 15, class A
EMS	EN55022:2006+A1: 2007 Class A

Surge Protection	
RJ45	1KV
Power	500W
ESD	4kV/8kV

Ordering Information		
Products	**Part Number**	**Description**
	MC2FT1FX1POEH	**Hardened Mini Type Ethernet to Fiber Media Converter with 1x 100Base-T(X) PoE+ port and 1x100Base-FX SFP port**
Recommended Power supplies	PSH48DC40	**High efficiency, switching power supply 48VDC@0.83A, 40W**
SFP Options	**Refer to Optical SFP Data Sheet for complete part numbers and ordering information**	

Packing List	
MC2FT1FX1POEH	1
Wall-Mount Kit	1
Quick Installation Guide	1
Din-Rail Kit (attached)	1