

## MC-1000

10/100/1000 Mbps Ethernet  
BASE-T/TX to 100/1000 SFP  
(MM or SM)

Copper port supports Auto-  
Negotiation for 10/100/1000,  
full duplex or half duplex data

Optical port supports 100 or  
1000 Mbps full duplex data

Distances up to 160 km SM  
with optional SFPs

Uses interchangeable SFP  
modules for fiber type, dis-  
tance and connector

Voltage transient protection  
on all power and signal input/  
output lines provides protec-  
tion from power surges and  
other voltage transient events

No in-field optical adjustments  
required

LED indicators provided for  
confirming equipment operat-  
ing status

EEE 802.3 compliant



The ITS Express fiber optic Media Converter is designed to convert 10/100/1000 Mbps base T (copper/ethernet) to 100/1000 SFP ports over fiber. It can use 100FX or 1000SX or SXL(2 KM) mm or 100/1000 BX/LX/EX/ZX or SM fiber Optic via a Pluggable (SFP) modules. These fiber optic media converter devices can be used to transmit Ethernet data up to 160KM SM. The SFP modules are ordered separately to meet user requirements for mode type, distance and type of optical connector.

Distributed By:  
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**Interface**

Ethernet

**Data Rate**

10/100/1000 Mbps  
IEEE 802.3 Compliant  
Full Duplex or Half Duplex Copper Port  
Full Duplex SFP Port

**Connectors**

Power: Terminal block  
Electrical: RJ-45 (10/100/1000 BASE-T/TX)  
Socket: SFP (100/1000)

**Indicators**

**Link/Act**

Green: Indicates a good fiber connection  
Flashing Green: Indicates data is present on at least one side of the IP connection  
No LED lit: Indicates a loss of fiber connection

**Power**

Green: Power is supplied  
None: No power is supplied

**RJ-45 Connector**

Right side, Flashing Green: Data is present  
Right side, Off: No data is present

**Power Requirements**

Input: 12-48 VDC

**Current Protection**

Automatic resettable  
Solid-state current limiters

**Circuit Board**

Meets IPC Standard

**Environmental**

MTBF: > 200,000 hours  
Operating Temperature: -40 to 185°F  
(-40 to 85°C)  
Storage Temperature: -40 ~ 185°F  
(-40 ~ 85°C)  
Relative Humidity: 0 to 95% (non-condensing)  
Meets TS2 Requirements

**Dimensions (LxWxH)**

6.3 x 5.1 x 1.1" (16 x 13 x 2.8cm)  
**Weight less than 1 lb**

