

## Industrial 10/100M Ethernet to Fiber Optic Converter Part Number: MT8110-F-G (DIN-Rail/Wall-Mount)

Single-Mode (12.4miles/20km) or Multi-Mode (3miles/5km)

Connector types: ST, SC or FC

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Maiwe

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#### INTRODUCTION

MT8110-F-G (DIN-Rail/Wall-Mount) is a rugged, industrial-grade 10/100M Ethernet to fiber optic media converter, which provides one channel for media conversion between 10/100BaseTX and 100BaseFX fiber optic links. MT8110-F-G works in pair (point to point) and it runs on a light-speed fiber backbone inherently resistant to radio and electrical interference, such as EMI/RFI, transient surges, and ground loops. Depending on the fiber cable and the type of media converter used, a single-mode media converter can extend the 10/100M Ethernet's distance to 12.4 miles (20 km), while a multi-mode media converter can extend the 10/100M Ethernet's distance to 3 miles (5 km). MT8110-F-G is a plug and play unit featuring auto-negotiation for half or full-duplex and 10 or 100Mbps data rates, it also supports MDI (straight-through) and MDIX (crossover) cables, no DIP switch or jumper settings are required.

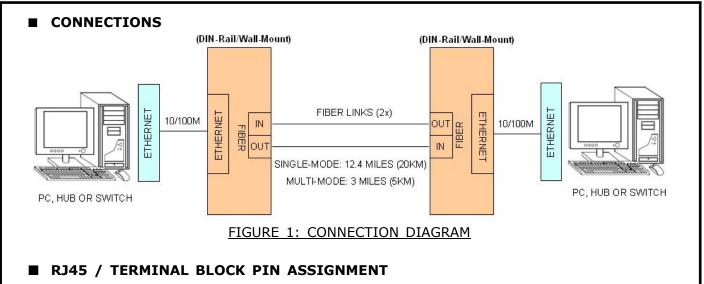
#### ■ FEATURES

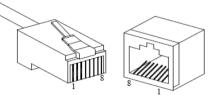
- Enclosed in a rugged, rustless ABS housing.
- Direct DIN-Rail or wall/panel mounting without using any unsecured brackets or adapters.
- Converts 10/100BaseTX to 100BaseFX fiber optic links.
- Transmits 10/100M Ethernet data over a long distance through fiber cables.
- Auto-negotiation of speed and duplex mode on TX port.
- Auto-MDIX on TX port.
- Store-and-forward mechanism.
- Single or Multi-mode, with ST, SC or FC connectors.
- Built-in surge protection, static protection and circuit protection.
- Surface Mount Technology manufactured to RoHS and ISO-9001 standards.
- 5 Year manufacturer's warranty.

#### ■ SPECIFICATIONS

Compatibility:	IEEE802.3 10Base-T; IEEE802.3u 100Base-TX and 100Base-FX	
Power Source:	9 to 30VDC (External AC to DC power adapter included)	
External AC/DC Power Adapter:	9VDC/500mA (Input: 100~240VAC 50/60Hz, US type A plug)	
Features:	Auto-negotiation for half/full-duplex and 10/100M on TX port;	
	Auto-MDIX on TX port	
Switching Method:	Store-and-forward	
Speed:	10BaseT: 10/20Mbps for half/full-duplex	
	100BaseT: 100/200Mbps for half/full-duplex	
Current Consumption:	Less than 200mA	
Wavelength:	1310nm	
Output Power (Fiber):	Single-Mode: -15dBm(Min); -10dBm(Typ); -8dBm(Max)	
	Multi-Mode: -15dBm(Min): -10dBm(Typ); -8dBm(Max)	
Sensitivity (Fiber):	Single-Mode: -34dBm; Multi-Mode: -34dBm	
Usable Fiber Optic Cables:	Single-mode: 8.3/125, 8.7/125, 9/125, 10/125µm	
	Multi-mode: 50/125, 62.5/125µm	
Distance (Ethernet):	10BaseT: Cat. 3, 4, 5 up to 328ft (100m)	
	100BaseT: Cat. 5 up to 328ft (100m)	
Distance (Fiber Lines):	Single-mode: 12.4 miles (20km); Multi-mode: 3 miles (5km)	
Connectors (Ethernet/Power):	RJ45 (Female) / Terminal Block (9-way)	
Connectors (Fiber Links):	ST Connector, SC Connector or FC Connector	
Surge Protection:	600W	
Electro-Static Discharge (ESD):	Up to 15KV	
Dimensions (H $\times$ W $\times$ D):	ST: 4.9 x 2.9 x 1.3 in (125 x 73 x 33 mm)	
	SC: 4.7 x 2.9 x 1.3 in (120 x 73 x 33 mm)	
	FC: 4.6 x 2.9 x 1.3 in (117 x 73 x 33 mm)	
Weight:	ST: 4.6 oz (130 g) / SC: 4.6 oz (129 g) / FC: 4.6 oz (129g)	
Operating Temperature:	-20°C to 70°C)	
Operating Humidity:	0 to 90% Non-condensing	

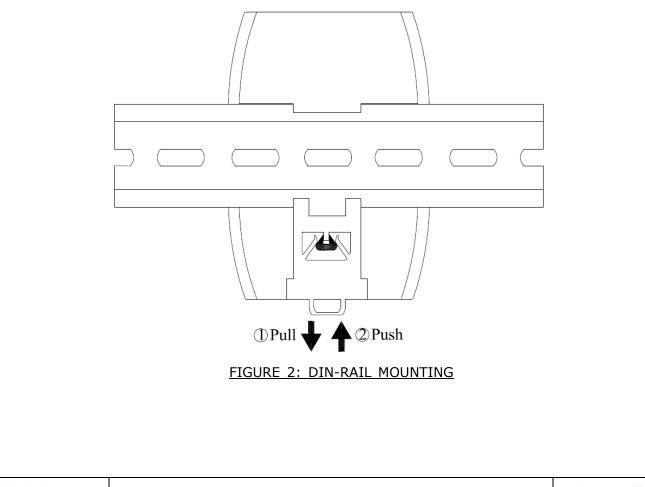


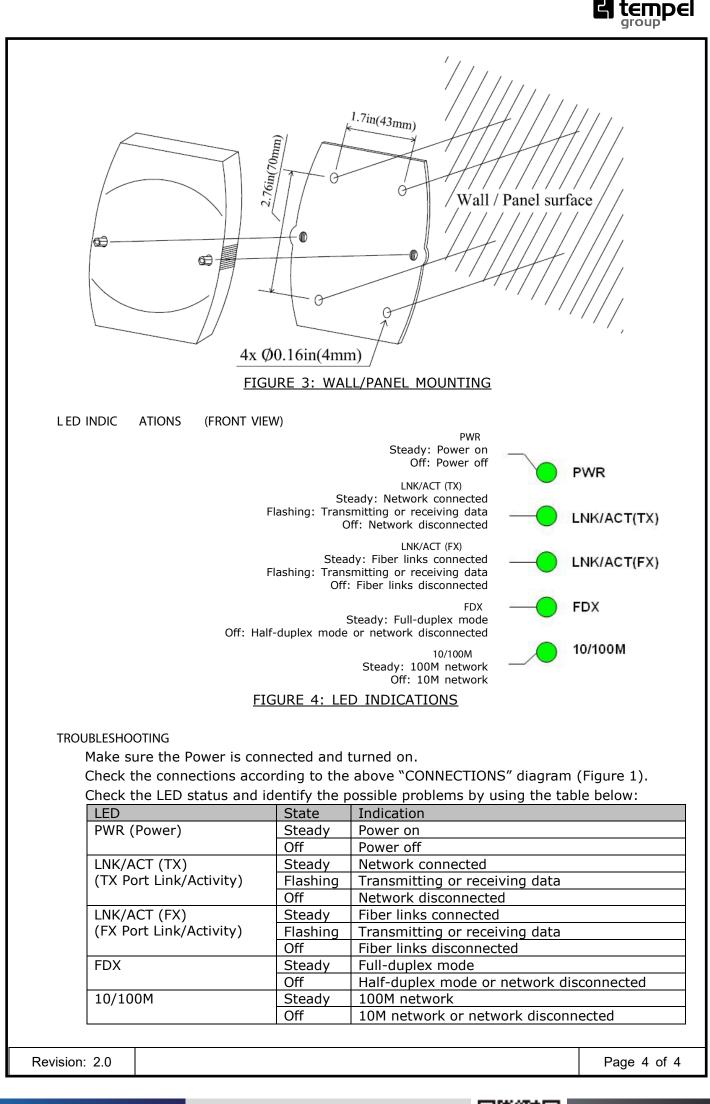




RS45	Terminal Block
1	TX+
2	TX-
3	RX+
6	RX-
4,5,7,8 (Not Connected)	-

### ■ INSTALLATIONS





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