

# 10/100M Fiber Ethernet Media Converter

## With 4 RJ45 Ports & 1 Fiber Port



## 1. Overview

The MT-8110SB-14-20A/B fast Ethernet Media Converter series is designed to meet the massive needs for network deployment and able to extend a copper based Fast network via fiber cable to a maximum distance up to 120KM.

Our 10/100M Fiber Ethernet Media Converter series is fully compliant with IEEE802.3, IEEE802.3U, 10/100Base-TX, 100Base-FX, standards. The installation & operation procedures are simple & straightforward. Operation status can be locally monitored through a set of Diagnostic LED lamps.

### Features

10/100Base-TX to 100Base-FX Media Converter

- 1) 4 ports 10/100M ethernet switch with built in transceivers and memory;
- 2) Build in SRAM for frame buffer;
- 3) Build in storage of 1K MAC address;
- 4) Compliance with IEEE802.3, 802.3u, 802.3x standard;
- 5) Compliance CSMA/CD Protocol;
- 6) Converter twisted-pair cable to 100Base-Fx fiber;
- 7) Support 10/100Mbps auto-negotiation for RJ45 ports;
- 8) Support auto MDI/MDI-X function for RJ45 ports;;
- 9) Passed maximum frame size 1536 bytes;
- 10) Broadcast storm protection;
- 11) Fiber Port SC/PC (single/multi-mode ),the transmission distance can up to 120Km.  
RJ45 Port: 100m for 100Base-Tx UTP Cat.5 cable.
- 12) Inside power: AC 220/110V
- 13) Power Consume: < 5W.

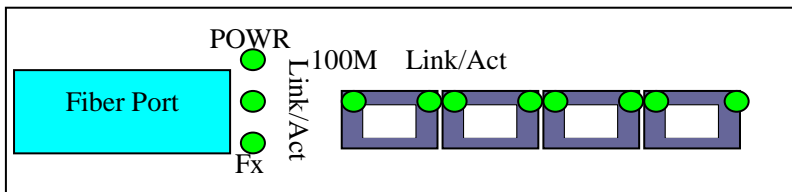
## 2. Installation

- Attach fiber cable from the media converter to the fiber network. The fiber connections must be matched – transmit socket to

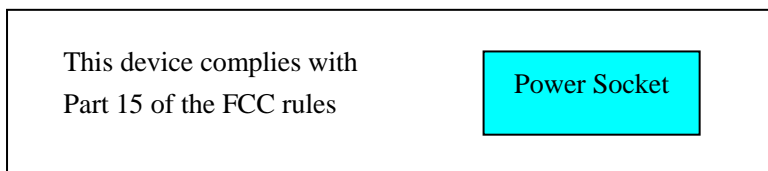
receive socket, the TX ,RX fiber cable must be paired at both ends .

- Attach a UTP cable from the 10/100BASE-T network to the RJ-45 ports on the media converter .
- Connect the power adapter to the media converter and check that the Power LED lights up. The LINK/ACT LEDs will light up when all the cable connections are satisfactory.

### 3. LED Description



Picture1.Front View



Picture2.Back View

Power : When the power is on and valid ,the LED will solid ON

100M: When the RJ45 port is working at 10M speed ,the LED lamp is off; when 100M speed , it will solid ON

Link/Act: When Fiber or UTP link is valid ,the LEDs will solid on;When data is exchanging ,the LEDs will blink;

FX: When the fiber signals is detected the LED will ON .

### 4. Technical Specifications

1. Standard Protocol: IEEE802.3 10 Base-T standard  
IEEE 802.3u 100Base-TX/FX standard
- 2.Connector:Four RJ-45 connector,one SC/ST fiber connector .
3. Operation mode: full duplex mode or half duplex mode
4. Power supply parameter: outside: 5V DC 2A  
built-in: 110-265V AC 48V DC
5. Environmental temperature: 0°C-70 °C
6. Relative humidity: 5%-90%
7. TP cable: Cat5 UTP cable
- 8.Fiber:50/125,62.5/125um multi-mode fiber ; 9/125,10/125um single-mode fiber.
9. Dimensions: 40mm x 110mm x 140mm

## Ordering information :

Description
10/100M external media converter 2KM multi mode dual fiber,4RJ45 port
10/100M external media converter 20KM single mode dual fiber, 4RJ45 port
10/100M external media converter 40KM single mode dual fiber, 4RJ45 port
10/100M external media converter 60KM single mode dual fiber, 4RJ45 port
10/100M external media converter 80KM single mode dual fiber, 4RJ45 port
10/100M external media converter 100KM single mode dual fiber, 4RJ45 port
10/100M external media converter 120KM single mode dual fiber, 4RJ45 port
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