# MC-10/100 SERIES
# Mini Media Converter
## User Manual


☛Brief introduction
This mini 10/100Base-TX to 100Base-FX Media Converter supports IEEE802.3 / IEEE802.3U 100Base-TX/FX protocols.

☛Packing list
Please check the following items in the package before installing the media converter.

| | |
|---|---|
| Mini media converter | 1 Unit |
| AC to DC Power adaptor | 1 PCS |
| User Manual | 1 Copy |

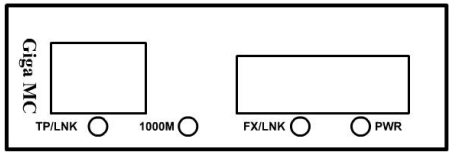
Please contact the dealer immediately for any loss or damage to the above items.

☛Installation
1. Interfaces
RJ-45 interface
The transmission media adopts CAT5 or CAT5e twisted-pair with maximum length up to 100 meters (330 feet).

Fiber interface
SC fiber interface is duplex mode type, including two interfaces, namely TX and RX. When the two sets of optical transceiver are interfaced or connected to switch with fiber interface, the fiber is in cross connection, namely "TX-RX", "RX-TX" (direct butting for single optical fiber transceiver module).

Power supply interface
The AC to DC power adaptor is connected to DC-input jack of media converter.

2. Connection
The network device (IP camera, wireless AP, VoIP phone, etc) with RJ-45 interface is connected to RJ-45 jack of media converter through twisted-pair. And the multi/single mode optical fiber is connected to SC fiber interface of the optical transceiver module. Then connect the AC power adaptor, the media converter will work. The corresponding LED is on for correct connection (See the table below for the LED indicator lamp).




☛Description for LED indicator lamp
LED indicator lamps serve as device monitoring and trouble display. The following is the description for each LED indicator lamp.

| | |
|---|---|
| TP/LNK | Bright: twisted pair is connected well, but no data transmission |
| | Blinking: receiving data |
| 100M | ON: 100M (TP) |
| | OFF: 10M (TP) |
| FX/LNK | Bright: optic fiber cable is connected well, but no data transmission |
| | Blinking: when receiving data |
| PWR | ON: the power is ok |

☞ Introduction to DIP switches

| NO. | Function | Status | Description |
|---|---|---|---|
| 1 | LFP function | OFF | Disable |
| | | ON | Enable |
| 2 | Pass-through mode | OFF | Disable |
| | | ON | Enable |
| 3 | TP-Duplex mode | OFF | Full |
| | | ON | Half |
| 4 | TP-Speed mode | OFF | 100M |
| | | ON | 10M |

☛Main features
1. In conformity to IEEE802.3 10 Base-T standard and IEEE802.3u 100 Base-Tx/Fx standards.
2. Support flow control for full and half duplex operation.
3. Bandwidth control.
4. Support auto MDI-MDIX function.
5. Support link fault pass through function.

☛Technical parameters:
1. Standard Protocol: IEEE802.3 10 Base-T standard and IEEE802.3u 100 Base-Tx/Fx standards.
2. Connector: one UTP RJ-45 connector, SC fiber connectors, one DC-inlet connector
3. Operation mode: full duplex or half duplex mode
4. Power supply parameter: DC 5-12V
5. Environmental temperature: 0°C - 50 °C
6. Relative humidity: 5%-90%
8. TP cable: Cat5 or Cat5e UTP cable
9. Optical fiber:
multi-mode: 50/125, 62.5/125 or 100/140μm
single mode: 8.3/125, 8.7/125, 9/125 or 10/125μm
10 Dimensions:
90mm (L) x 60mm (W) x 20mm (H)
(Not including transceiver length)

☛Cautions:
1. This product is suitable for indoor applications.
2. Put on the dust cover of fiber interface when not used.
3. It is forbidden to stare at the TX fiber-transfer end with naked eyes.
4. WDM transceiver must be used in pair.

☛Trouble shooting:
1. Device is not matched. Please select the corresponding network device according to the transfer rate of the product (100Mbps or 1000Mbps) when connected to other network devices.
2. Line loss is excessive during the fiber wiring. Excessive loss in connector plug-in and fiber soldering, and excessive intermediate nodes may cause excessive loss rate or abnormal operation.

Megatel
**Megatel Industries Corporation**
664 Wagner Court
North Wales, PA 19454, USA
TEL : 1-610-239-8812 FAX : 1-215-699-3348
sales@megatelindustries.com www.megatelindustries.com