MC-1GT-SFP

Gigabit Media Converter

User Manual

☛Brief introduction

This product supports IEEE802.3U IEEE802.3z 1000Base-Tx/Fx protocol, as well as full duplex and half duplex mode.

☛Packing list

Please check the following items in the package before installing the converter.

Media Converter	1 Unit
Power Adapter DC5V 1A	1 PCS
User manual	1 Copy

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

☛Installation

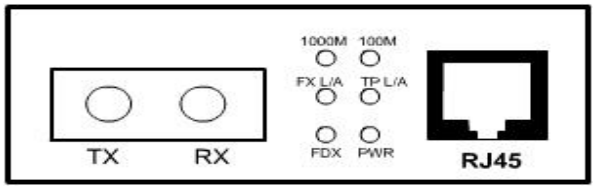
1. Interface

RJ-45 interface

The transmission media adopts CAT5 twisted-pair with typical length of 100 meter. It features the function of automatically identifying the through line and cross wire. Fiber interface LC is of duplex mode type, including two interfaces, namely TX and RX. When the two sets of optical transceivers are interfaced or connected to switch, the fiber is in cross connection, namely "TX-RX", "RX-TX" (direct butting for single optical fiber).

2. Connection

The network device (work station, hub or switch) with RJ-45 interface is connected to RJ-45 jack of this converter through a twisted pair. And the multi/single mode fiber is connected to fiber interface of this converter. Then optical transceiver works. The corresponding LED is ON for correct connection. (See the table below for the LED indicators.)



☛Explanation for LED indicator lamp

LED indicators serve as device monitoring and trouble display. The following is the explanation for each LED indicator.

LED	Status	Explanation
Link/Act	On	Connection status display for link. "ON" indicates that link is in correct connection.
	Blink	Active status display of fiber port or RJ45 port "Blink" indicates packet goes through media converter
FDX	On	Transceiver works in the full duplex mode.
	Off	Transceiver works in the half duplex mode.
PWR	On	Power is on and normal.
1000M	On	Transfer rate of electric interface is 1000Mbps.
100M	On	Transfer rate of electric interface is 100Mbps.

☞Main features

1. In conformity to IEEE 802.3 10 Base-T standard. In conformity to IEEE 802.3u 100 Base-TX, IEEE802.3z, IEEE802.3abstandard.

2. Built in high efficiency SRAM for packet buffer, with 1K-entry lookup table and 4-way associative hash algorithm.

3. Half duplex: back pressure flow control
   Full duplex: IEEE802.3x flow control

4. Automatic identification of MDI/MDI-X cross line.

5. In conformity to safety code of FCC and 15 CLASS A and CE MARK.

☞Technical parameters:

1. Standard Protocol: IEEE802.3 10 Base-T standard
   IEEE 802.3u 100Base-TX and IEEE802.3z standard
2. Connector: one UTPRJ-45 connector, one SC/ST connector
3. Operation mode: full duplex mode or half duplex mode
4. Power supply parameter:
   Adapter (External): 100-265V AC input, DC5V 1A output
5. Environmental temperature: 0℃ - 50 ℃
6. Relative humidity: 5%-90%
8. TP cable: Cat5 UTP cable
9. The SFP slot supports 1.25G Transfers and 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:
   Power external: 94mm(L)x 71mm(W) x 26mm(H)
   Power internal: 140mm(L) x 110mm(W)x 29mm(H)

☞Cautions:

1. This product is suitable for indoor application.
2. Put it under the dust cover 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 (10Mbps or 100Mbps, 1000Mbps) when connected to other network devices (network card, hub, switch).

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.

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