

Mini Media Converter

10/100/1000Base-TX to

1000Base-FX

User's Manual

🔑 Brief introduction

Thanks for purchasing the mini 10/100/1000Base-TX to 1000Base-FX Media Converter! This product supports IEEE802.3U IEEE802.3z 1000Base-TX/FX protocols.

🔑 Packing list

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

Mini media converter 1set
AC/DC Power adaptor 1pc
User's manual 1copy

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

🔑 Installation

1. Interface

RJ-45 interface

The transmission media adopts CAT5e or CAT6 twisted-pair with maximum length up to 100meters (330feet).

Fiber interface

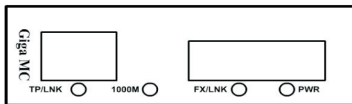
SC/ST fiber interface is of duplex mode type, including two interfaces, namely TX and RX. When the two sets of optical transceiver are interfaced or connected to switch with fiber interface, the fiber is in cross connection, namely "TX-RX", "RX-TX" (direct butting for single optical fiber transceiver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

Power supply interface

The AC/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/ST 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
1000M	ON: 1000M (TP) OFF: 100M/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	Forward mode*	H bit	OFF/OFF Store and forward
		L bit	OFF/ON Modified cut through
3		L bit	ON/OFF Smart pass through
		ON/ON	Pass through
4	FX 100M	OFF	FX 1000M
		ON	FX 100M

*combined keys

🔑 Main features

1. In conformity to IEEE802.3U IEEE802.3z 1000Base-Tx/Fx standards.
2. Supports IEEE802.3x flow control.
3. Supports 100Base-FX interface.
4. Supports auto MDI-MDIX function.
5. Supports LFP function.

🔑 Technical parameters:

1. Standard Protocol: IEEE 802.3u 1000 Base-TX, IEEE802.3z, IEEE802.3ab standards
2. Connector: one UTP RJ-45 connector, one SC/ST connector, 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: Cat5e or CAT6 UTP cable

9. Optical fiber:

multi-mode:

50/125, 62.5/125 or 100/140 μ m

single mode:

8.3/125, 8.7/125, 9/125 or 10/125 μ m

10. Dimensions:

90mm (L) x 60mm (W) x 20mm (H)

(Do not include transceiver length)

🔑 Cautions:

1. This product is suitable for indoor application.
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. Single optical fiber 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) when connected to other network devices.
2. Line loss is excessive during the fiber wiring. Excessive loss in connector plug-in and fiber soldering welding, and excessive intermediate nodes may cause excessive loss rate or abnormal operation.