

## Brief introduction

Thanks for purchasing fiber media converter. This product supports IEEE802.3I/U/Z/AB 10/100/1000Base-T, 100Base-FX/1000Base-SX/LX/FX protocol, the working mode of duplex full mode and half mode. The electric outlet (RJ45) is adaptive to the rate of 10/100/1000TX auto negotiation. This product is for various models of adaptive 100Base-FX, and 1000Base-X optical transceivers. It's designed dual rate SFP with LFP function

## Packing list

Please check the following items in the package before the installation of transceiver.

Fiber media converter	1 piece
Power adapter 5V/1A	1 piece
SFP module	Not included
User manual	1 piece

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

## Installation

### 1. Interfaces

#### RJ-45 interface

The transmission media is min CAT5e twisted-pair with a maximum length of 100 meters. It features auto -negotiation of straight through line and crossover cables.

#### Fiber interface

SFP slot is for SFP module. The fiber interface is of duplex type, 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).

### 2. Connection

Connect the network device (work station, hub or switch) to the RJ-45 jack of the optical transceiver through twisted-pair CAT5e. Connect the multimode/single mode fiber to SC/LC fiber interface of the optical transceiver. Turn the power on. The corresponding LED is on for a correct connection. (See the table below for the LED indicator lamp)

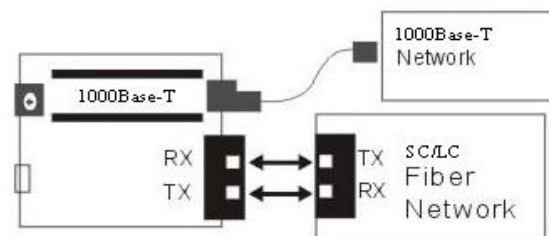
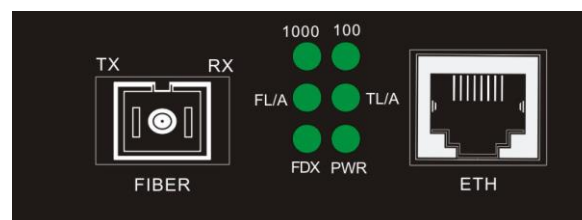


Figure 1 Schematic generic drawing of connection



## LED indicators

The LED indicator lamps serve as device monitoring and

error display. The following explains each LED indicator.

LED	Status	Function
FL/A	On	"ON" indicates that Fiber link is in correct connection.
	Blink	"Blink" indicates packet goes through Fx end.
FDX	On	Transceiver works in the full duplex mode.
	Off	Transceiver works in the half duplex mode.
TL/A	On	"ON" indicates that electric link is in correct connection.
	Blink	"Blink" indicates packet goes through Tx end.
1000	On	Transfer rate of electric interface is 1000Mbps.
100	On	Transfer rate of electric interface is 100Mbps.
PWR	On	Power is on and normal.

Note: "Off" of TP100 and TP1000 indicates that the rate of electric interface is 10Mbps.

Switch	Status	Function
DIP1	ON	Enable LFP function
DIP2	ON	Flow control

## Main features

1. Conforms to IEEE802.3Z/AB 1000  
Base-T/SX/LX standard
2. Back pressure flow control for full duplex IEEE802.3 X  
and half duplex.
3. Automatic identification of MDI/MDI-X cross line.
4. Conforms to safety code of FCC and 15 CLASS A, CE.

## Technical parameters

1. Standard Protocol: IEEE802.3Z/AB 1000  
Base-T/SX/LX/FX standard
2. Transfer rate: electric interface: 10/100/1000Mbps  
Optical interface: 155M/1.25Gbps
3. Interface: One UTP RJ-45 jack,  
One SFP Slot
4. Working mode: full duplex or half duplex
5. Power supply parameter:  
External: 100-240V AC 48VDC  
Internal: 5V DC 1A
6. Operating temperature: -10~60 °C
7. Relative humidity: 5%-90%
8. TP cable: 5E, Cat6
9. Fiber cable depending on SFP:  
Multi-mode: 50/125, 62.5/125  
Single mode: 8.3/125, 8.7/125, 9/125 or 10/125μm
- 10 Outside dimensions: 94mmx70mm\*26mm

## Warning

1. This product is suitable for indoor application.
2. Place the dust cover on the fiber interface when not in use.
3. It is dangerous to stare at the fiber transmitter with the naked eye.
4. Optical fiber transceivers must be used in pair.
5. Single optical fiber transceiver must be used in pair(A,B)  
i.e. A: TX1310RX1550nm B: TX1550/RX1310nm.

## Trouble shooting

1. Device is not connecting. Please check that the corresponding network device is using the same transfer rate as the media converter (10Mbps, 100Mbps or 1000Mbps).
2. If power loss is excessive in the fiber, please check and clean the fiber patch cord connectors.

**10/100/1000M**

**Gigabit Media Converter**

**Dual Rate SFP with LFP**

**User Manual**

**V1.1**

Please read before using the Media Converter