I. Brief introduction

Many thanks for purchasing Gigabit media converter! This product supports IEEE802.3Z/AB 1000Base-SX/LX protocol, the working mode of duplex full mode and half mode. The electric outlet is adaptive to the rate of 10/100/1000M Gigabit media converter. This manual is for various models of adaptive 10Base-T, 100Base-T, and 1000Base-T media converter. The following purchasing guide is for customer to refer to.

II. Packing list

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

Gigabit optical media converter	1 piece
Power line	1 piece
User manual	1 copy

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

III. Installation

1. Interface

RJ-45 interface

The transmission media adopts CAT5/CAT5E/CAT6 twisted-pair. It is recommended to use quality RJ-45 and well made jumper. It features the function of automatically identifying the through line and cross wire.

Fiber interface

The fiber interface is of duplex mode type, including two interfaces, namely TX and RX. When the two sets of media converter are interfaced or connected to switchboard with fiber interface, the fiber is in cross connection, namely "TX-RX" "RX-TX".

2. Connection

Connect the network device (work station, hub or switch) to the RJ-45 jack of the media converter through twisted-pair CAT5. Connect the multimode/single mode fiber to LC fiber interface of the media converter. Turn the power on. The corresponding LED is on for a correct connection. (See the table below for the LED indicator lamp)
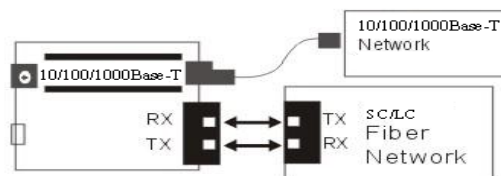

Figure 1 Schematic drawing of connection

IV. Explanation for LED indicator lamp

The LED indicator lamps serve as device monitoring and error display. The following explains each LED indicator.

LED	Status	Explanation
FDX	On	Converter works in the full duplex mode.
	Off	Converter works in the half duplex mode.
FX Link/ACT	Blink	Active status display of fiber interface link "Blink" indicates packet goes through FX
1000	On	Rate of electrical interface is 1000Mbps
100	On	Rate of electrical interface is 100Mbps
TP Link/ACT	Blink	Active status display of electrical interface link
		"Blink" indicates packet goes through TP
PWR	On	Power is on and normal.

When both 1000 and 100 are Off, Rate of electrical interface is 10Mbps.

V. Technical Specification

1. Standard Protocol:
   IEEE802.3Z/AB 1000Base-T/SX/LX
2. Transfer rate: 2000Mbps/full-duplex
3. Interface: One RJ-45 10/100/1000Base-TX
   One FX 1000Base-SX/LX
4. Operation mode: full duplex mode or half duplex mode
5. Power supply:
   Internal 110-240VAC 50-60HZ (Standalone)
   External 5V DC 2A (Slider card)
6. Environmental temperature: 0℃~50 ℃
7. Relative humidity: 5%-90% non-condensing
8. TP cable: CAT.5, CAT.5E, CAT.6
9. Transfer fiber: multi-mode: 50/125, 62.5/125μm
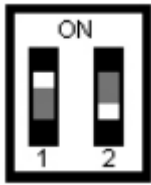   Single mode: 8.3/125, 8.7/125, 9/125 or 10/125μm
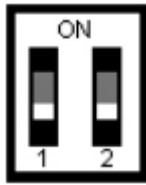10. Dimensions:
    Standalone type: 32mm x 127mm x 156mm
    Slider Card type: 26mm x 77.2mm x 113mm

DIP-Switch:

*Toggle ON pin 1 to LFP is enable; OFF is disable

LFP is enable   LFP is disable

VI. Caution:

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 (A, B)

A: TX1310RX1550nm   B: TX1550/RX1310nm.

VII. Trouble shooting:

1. Line loss is excessive during the fiber wiring

Excessive loss in adaptor connector plug-in and fiber soldering welding and excessive intermediate nodes may cause excessive loss rate or abnormal operation.

2. If power loss is excessive in the fiber, please check and clean the fiber patch cord connectors.

Gigabit Ethernet Media Converter

10/100/1000Base-Tx to 1000Base-X

User manual

(Please read before using the Media Converter)

V： 1.1