10/100/1000M Gigabit Media Converter

☞ Brief introduction

Many thanks for purchasing Gigabit Ethernet optical transceiver!

This product supports IEEE802.3UI100Base-Tx/Fx protocol, as well as full duplex and half duplex mode. This manual is for 1000M transceivers.

☞ Installation

1. Interface

RJ-45 interface

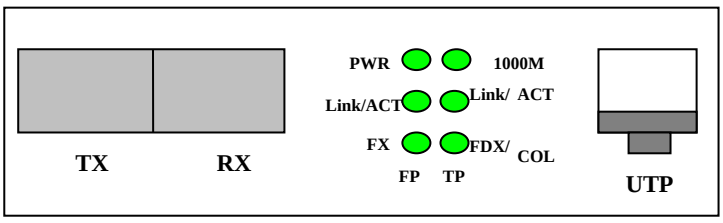
The transmission media adopts CAT5 twisted-pair with typical length of 100 meter. It features the function of automatically identifying the through line and cross wire

Fiber interface

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).

2. Connection

The network device (work station, hub or switch) with RJ-45 interface is connected to RJ-45 jack of optical transceiver through twisted-pair. And the multi/single mode fiber is connected to SC/ST fiber interface of the optical transceiver. Then switch on. The corresponding LED is on for correct connection. (See the table below for the LED indicator lamp)



☞ Explanation for LED indicator lamp

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

LED	function	status	Describing
PWR	Power LED	ON	Power is ON.
		OFF	Power is Fail.
FX	Fiber port signal detect LED	ON	Laser is receiving.
		OFF	No laser input.
FX-LINK/ACT	Fiber port link/action status LED	ON	Fiber link is ok.
		Blink	Data is been received or transmitted
		OFF	Fiber link is fail.
1000M	UTP port speed LED	ON	1000M speed
		OFF	100M speed
TX-LINK/ACT	UTP port link/action status LED	ON	Link is ok.
		Blink	Data is been received or transmitted
		OFF	Link is fail.
FDX/COL	UTP port duplex LED	ON	Full duplex
		OFF	Half duplex

Main features

1. In conformity to IEEE 802.3 10 Base-T standard.
   In conformity to IEEE 802.3u 100 Base-TX/FX standard.
2. Max. 2M buffer memory built in chip.
3. Back pressure flow control for full duplex
IEEE802.3 X and half duplex.
4. Automatic identification of MDI/MDI-X cross line.
5. High-performance1.4Gbps memory bandwidth.
6. In conformity to safety code of FCC and 15 CLASS B and CE MARK.

Technical parameters:

1. Standard Protocol: IEEE802.3 10 Base-T standard
   IEEE 802.3u 100Base-TX/FX standard
2.Connector:oneUTPRJ-45connector,oneSC/STconnector
3. Operation mode: full duplex mode or half duplex mode
4. Power supply parameter: outside: 5V DC 1A
   built-in: 110-265V AC 48VDC
5. Environmental temperature: 0℃-60 ℃
6. Relative humidity: 5%-90%
8. TP cable: Cat5 UTP cable
9. Transfer 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:

External power supply: 26mmx 70mm x 95mm

Built-in power supply: 30mm x 110mm x 140mm

☞ 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 (See the attachment description in delivery).

☞ 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 (network card, hub, switch).
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.

ORDERING INFORMATION

Item No	Description	Fiber mode	Connector	Wavelength	Distance
6C-4002	Gigabit Ethernet Media Converter	Multi-mode dual fiber	SC	850nm	550m
6C-4005	Gigabit Ethernet Media Converter	Multi-mode dual fiber	SC	1310nm	2 Km
6C-4010	Gigabit Ethernet Media Converter	Single-mode dual fiber	SC	1310nm	10 Km
6C-4020	Gigabit Ethernet Media Converter	Single-mode dual fiber	SC	1310nm	20 Km
6C-4040	Gigabit Ethernet Media Converter	Single-mode dual fiber	SC	1550nm	40 Km
6C-4060	Gigabit	Single-mode	SC	1550nm	60 Km

	Ethernet Media Converter	dual fiber			
6C-4080	Gigabit EthernetMedia Converter	Single-mode dual fiber	SC	1550nm	80 Km
6C-BIDI-2010	Gigabit Ethernet Media Converter	WDM Single-mode single fiber	SC	A side:Tx1310nm/Rx1550nm B side:Tx1550nm/Rx1310nm	10 Km
6C-BIDI-2020	Gigabit Ethernet Media Converter	WDM Single-mode single fiber	SC	A side:Tx1310nm/Rx1550nm B side:Tx1550nm/Rx1310nm	20 Km
6C-BIDI-2040	Gigabit Ethernet Media Converter	WDM Single-mode single fiber	SC	A side:Tx1310nm/Rx1550nm B side:Tx1550nm/Rx1310nm	40 Km
6C-BIDI-2060	Gigabit Ethernet Media Converter	WDM Single-mode single fiber	SC	A side:Tx1310nm/Rx1550nm B side: Tx1550nm/Rx1310nm	60 Km

NOTE : The above products are 10/100/1000M adaptive and are available in Card form on a 17 slots rack-mounted chassis .

☞ Packing list

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

Gigabit Ethernet optical transceiver 1set
AC/DC adapter (external) 1pc
Power line (built-in) 1pc

User manual 1copy

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