

1000M Gigabit Media Converter

Overview

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

Installation

1. Interface

RJ-45 interface

The transmission media adopts CAT5 twisted-pair with typical length of 1000 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)

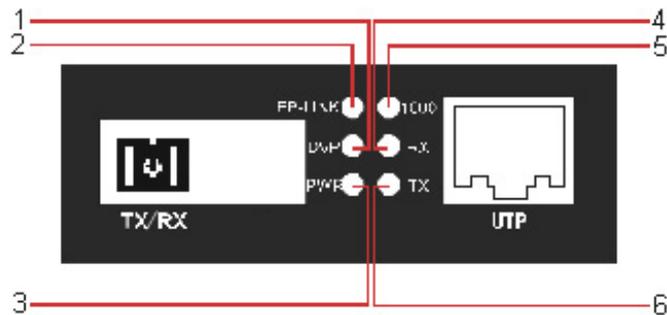


Table 1 : Front panel for single fiber media converter

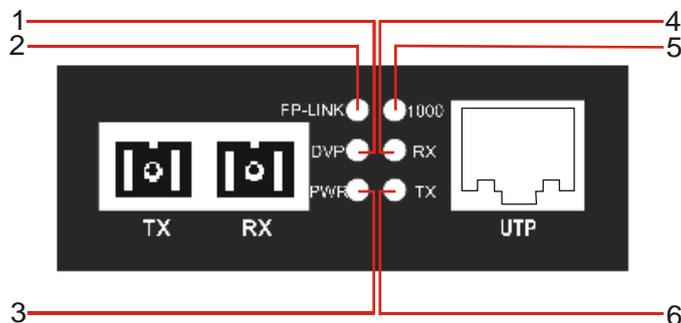


Table 2 : Front panel for dual fiber media converter

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	Description
DUP	UTP port duplex LED	ON	Full duplex
		OFF	Half duplex
FP-LINK	Fiber port link/action status LED	ON	Fiber link is ok.
		OFF	Fiber link is fail.
PWR	Power LED	ON	Power is ON.
		OFF	Power is Fail.
RX	UTP port link/action status LED	ON	The electrical link in ok
		Blink	Data is been received or transmitted
		OFF	The electrical link in fail
1000	UTP port speed LED	ON	1000M speed
		OFF	100M speed
TX	UTP port link/action status LED	ON	The data send out

Main features

1. In conformity to IEEE 802.3z 1000Base-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-performance 1.4Gbps memory bandwidth.
6. In conformity to safety code of FCC and 15 CLASS B and CE MARK.

Technical parameters:

1. Standard Protocol: IEEE 802.3z 1000Base-TX/FX standard
2. Connector: one UTP RJ-45 connector, one SC/ST connector
3. Operation mode: full duplex mode or half duplex mode

4. Power supply parameter: outside: 5V DC 2A
 built-in: 110-265V AC 48VDC
5. Environmental temperature: 0°C-60 °C
6. Relative humidity: 5%-90%
8. TP cable: Cat5 UTP cable
9. Transfer 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:
 External power supply: 26mmx 71mm x 94mm (can be installed in 19" 2U 14slots rack-mount chassis)
 Internal power supply: 40mm 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

Description	Fiber mode	TX power	Rx power	Wavelength	Distance
Gigabit Ethernet Media Converter	Multi-mode dual fiber	-17~-12	《-20.0	850nm	550m
Gigabit Ethernet Media Converter	Multi-mode dual fiber	-17~-12	《-20.0	1310nm	2 Km
Gigabit Ethernet Media Converter	Single-mode dual fiber	-6~-12	《-21.0	1310nm	10 Km
Gigabit Ethernet Media Converter	Single-mode dual fiber	-3~-8	《-23.0	1310nm	20 Km

Gigabit Ethernet Media Converter	Single-mode dual fiber	-3~-0	《-25.0	1550nm	40 Km
Gigabit Ethernet Media Converter	Single-mode dual fiber			1550nm	60 Km
Gigabit Ethernet Media Converter	Single-mode dual fiber	》 1	《-27.0	1550nm	80 Km
Gigabit Ethernet Media Converter	Single-mode single fiber	-10~-5	《-20.0	A side:Tx1310nm/Rx1550nm B side:Tx1550nm/Rx1310nm	10 Km
Gigabit Ethernet Media Converter	Single-mode single fiber	-8~-3	《-23.0	A side:Tx1310nm/Rx1550nm B side:Tx1550nm/Rx1310nm	20 Km
Gigabit Ethernet Media Converter	Single-mode single fiber	-3~-0	《-23.0	A side:Tx1310nm/Rx1550nm B side:Tx1550nm/Rx1310nm	40Km
Gigabit Ethernet Media Converter	Single-mode single fiber	-3~-0	《-23.0	A side:Tx1310nm/Rx1550nm B side:Tx1550nm/Rx1310nm	60Km