Fiber Optical Media Converter

1 x 10/100/1000Base-T +1 x 1000Base-Fx

1. Product Overview

The fiber optic transceiver is a communication product that converts Ethernet signals from CAT5 to fiber optic transmission. With a 10/100/1000M RJ45 port and a 1000M optical port, the transmission distance can reach several kilometers to hundreds of kilometers. Transceivers are an economical solution for long-distance transmission of Ethernet signals. Widely used in telecommunications network transmission, security transmission, traffic monitoring and other fields.

2.Appearance

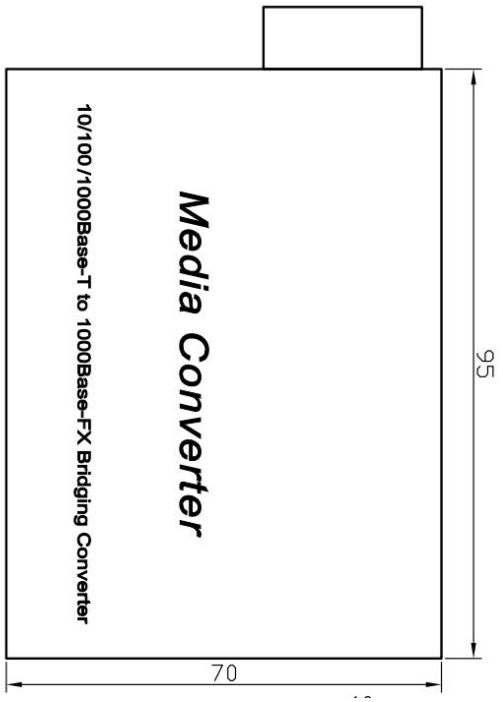
3.Product Features

1. Comply with IEEE 802.3 10 Base-T, IEEE 802.3u 100 Base-TX/FX standard;
2. MAC address table 1K, buffer memory 1M;
3. Support IEEE 802.3X full-duplex and half-duplex back pressure flow control;
4. Automatically identify the MDI/MDI-X crossover line;
5. Support up to 1552 bytes of packet forwarding;
6. Power and link LEDs indicate the operating status of the device;
7. Can be installed in a 3.5U 14-slot rack;
8. Safety: FCC,RoHS 15 CLASS A and CE.

4.Technical Parameters

	Fiber Optical Media Converter 1 x 10/100/1000Base-T +1 x 1000Base-Fx
Protocol standard	IEEE802.3 10 Base-T，IEEE 802.3u 1000Base-TX/FX
Address table	1K
Interface	1*UTPRJ-45，1*SC/ST connector
Cable	Cat5 UTP
Fiber	MM：50/125μm，62.5/125μm，100/140μm SM：8/125μm，8.7/125μm，9/125μm，10/125μm
Operating mode	Full/Half duplex
LED	PWR，FX，TX，FDX，Link/Act
Power parameter	220V - 5V，1A
Operating temperature	0 ～ +60℃
Storage temperature	20 ～ +70℃
Humidity	5% ～ 90%
Size	95(L) ×70 (W) ×26(H)mm

5.Product Structure



Upper panel

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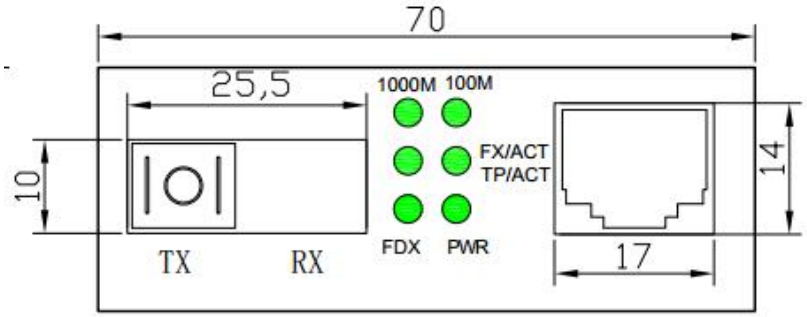
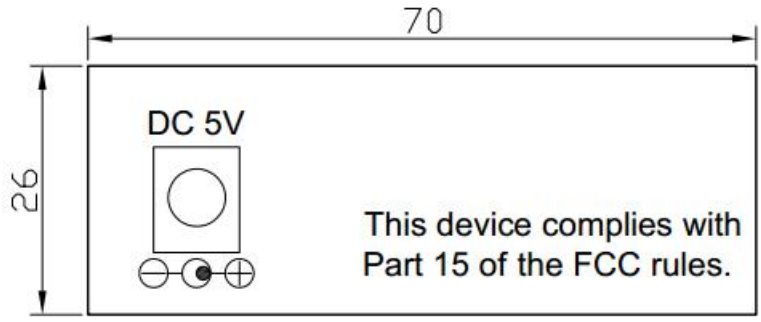


Front panel



Back panel

6. LED Indicator description

LED	Status	Description
PWR	ON	Normal
1000M	ON	Data transfer rate is 1000Mbps
100M	ON	Data transfer rate is 100Mbps
Link/Act	ON	Line link is correct
	glint	Switch data transmission
FDX	ON	Full duplex mode

7. Transmission characteristics of single fiber and double fiber

Fiber type	Connector	Wavelength (nm)	Transmission power (dBm)	Receiving sensitivity (dBm)	Distance (km)	Allowable error (dBm)
MM Dual fiber	ST/SC/FC	1310	-14 ~ -9	-34	2	10
SM Dual fiber	ST/SC/FC	1310	-13 ~ -4	-33	20	19
SM Dual fiber	SC	1310	-8 ~ -3	-35	40	27
SM Dual fiber	SC	1310	-5 ~ 0	-36	60	34
SM Dual fiber	SC	1550	-5 ~ -0	-36	80	27
SM Dual fiber	SC	1550	-5 ~ 0	-36	100	31
SM Dual fiber	SC	1550	-2 ~ 3	-37	120	35
SM Single fiber	SC	1310/1550	-12 ~ -3	-35	20	Standard error:1310nm 0.4/km 1550nm 0.25/km
SM Single fiber	SC	1310/1550	-8 ~ -3	-35	30	
SM Single fiber	SC	1310/1550	-5 ~ 0	-36	40~60	
SM Single fiber	SC	1310/1550	-3 ~ 3	-36	60~80	

8.Order information

Model	Description
ST-1000-MM-05	Dual fiber Multi mode 550m，1310nm
ST-1000-SM-20	Dual fiber single mode 20/40/60/100KM，1310nm
ST-1000-BD-20A/B	Single fiber single mode 20/40/60/80KM，1310/1510nm
ST-1000-11-SFP	LC Interface