

Introduction of 10 / 100M Fiber Media Converter

Gernal Description

10/100M Fast Ethernet Fiber Media Converter achieves the connect transforming from 10/100BASE-TX to 100BASE-FX. It changes the Ethernet transmission distance from cooper' s 100 meter to single-mode optical fiber' s 2-100 Km. What is more; the optical fiber has the advantage of anti-electromagnetic interference, so Fiber Optical Transceivers always apply to long distance and wide bandwidth computer network.

Main Feature:

1. Comply with IEEE802.3/u 10Base-T and 100Base-TX/FX
2. Support 802.3x full duplex flow control and Back Pressure half duplex flow control
3. Link Loss Alarm function
4. Supports MDI/MDI-X auto-sensing
5. Optional internal or external power supply
6. Optional SC,CT,FC, or LC (SFP module) optional fiber connector
7. Provide 1 channel optic interface and 1 channel Ethernet interface
8. Small volume, low power consumption, easy to install
9. Supports 2U,14-slot rack-mounted (for external power supply, desk type media converter only);supports 2U 16-slot rack-mounted (for card type, gigabit media converter only)

See the table below for the LED indicator lamp

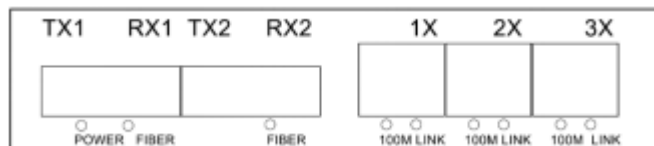
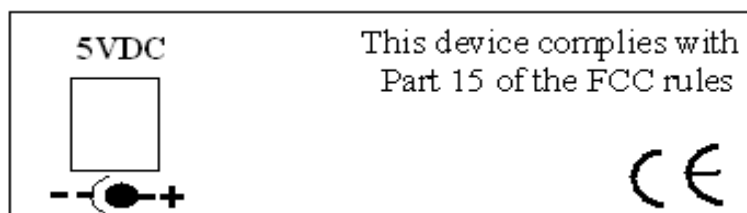


Figure 1 Schematic drawing of connection



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 indicator lamp	Status	Explanation
FIBER /Act	On	Connection status display for fiber link. "ON" indicates that Fiber link is in correct connection.
	Blink	Active status display of fiber link "Blink" indicates packet goes through Fx end.
Link /Act	On	Connection status display for electric link. "ON" indicates that electric link is in correct connection.
	Blink	Active status display of fiber link "Blink" indicates packet goes through Tx end.
PWR	On	Power is on and normal.
100M	On	Transfer rate of electric interface is 100Mbps.
	Off	Rate of electric interface is 10Mbps
FIBER /Act	On	Connection status display for fiber link. "ON" indicates that Fiber link is in correct connection.
	Blink	Active status display of fiber link "Blink" indicates packet goes through Fx end.
Link /Act	On	Connection status display for electric link. "ON" indicates that electric link is in correct connection.

Transmission characteristics of single fiber transceiver

Product model (WDM)	Optical wavelength (nm)	Transmitting optical power(dbm)	Receiving sensitivity (dbm)	Transmission distance (km)
UTP-SM (25km)	1310/1550 1550/1310	-12-6	-12	25
UTP-SM (40km)	1310/1550 1550/1330	-3-5	<-31	40
UTP-SM (60km)	1310/1550 1550/1330	-5-9	<-44	60

Technical Parameter:

Optic Interface

1. Single Mode Transmit Optic Power: -3dBm ~ -9dBm
2. Single Mode Receive Sensitivity: -33dBm ~ -40dBm
3. Fiber Connector: Dual SC /Dual FC /Single SC is optional;
4. Adaptive fiber: Single Mode, Multi Mode.

Ethernet Interface

1. Provide 3* RJ45 electronic interface, support local switching
2. Comply with IEEE802.3 10Base-T, IEEE802.3u 100Base-TX and 100Base-FX
3. Support full duplex IEEE802.3X flow control, half duplex back pressure flow control
4. Interface Speed Rate: 10/100Base-Tx, 10M and 100M
5. Support Broadcast Storm Suppression
6. Support RJ45 interface direct connection/cross line auto-adaptation

Power Supply Condition

1. DC Power Voltage: -48VDC, Tolerance Range -24V~-72V
2. DC Power Voltage: +24VDC, Tolerance Range +20V~+28V
3. AC Power Voltage: 110V~260V
4. Power Consumption: ≤ 10W

Working Environment

1. Environment Temperature: 0~65℃
2. Relative Humidity: ≤ 90%(35℃)
3. Atmospheric Pressure : 86-106Kpa

Dimension

97mm*70mm*26mm(desktop), can be installed in standard 19" rack
150mm*110mm*28mm Internal power supply.

Ordering Information

Product Name	Description	Unit
10/100M Fiber Media converter	Dual fiber,multi-mode,1310nm,2KM	set
	Dual fiber,multi-mode,850nm,2KM	set
	Dual fiber,single-mode,1310nm,20KM	set
	Dual fiber,single-mode,1550nm,20KM	set
	Dual fiber,sinlge-mode,1310nm,40KM	set
	Dual fiber,sinlge-mode,1310nm,60KM	set
	Dual fiber,sinlge-mode,1310nm,80KM	set
	Dual fiber,sinlge-mode,1310nm,100KM	set
	Dual fiber,sinlge-mode,1310nm,120KM	set
	Single-fiber,single-mode,1310/1550nm,20km	pair
	Single-fiber,single-mode,1310/1550nm,40km	pair
	Single-fiber,single-mode,1310/1550nm,60km	pair
	Single-fiber,single-mode,1310/1550nm,80km	pair
	Single-fiber,single-mode,1310/1550nm,100km	pair
	Single-fiber,single-mode,1310/1550nm,120km	pair