

10/100/1000M Ethernet Fiber Media Converter

General Description

The media converter transforms the transmission media of Ethernet signal from CAT5 to optical fiber. It can extend the transmission distance to several kilometers or hundred kilometers. This product supports IEEE802.3U IEEE802.3z 1000Base-Tx/Fx protocol, as well as full duplex and half duplex mode.

Outline

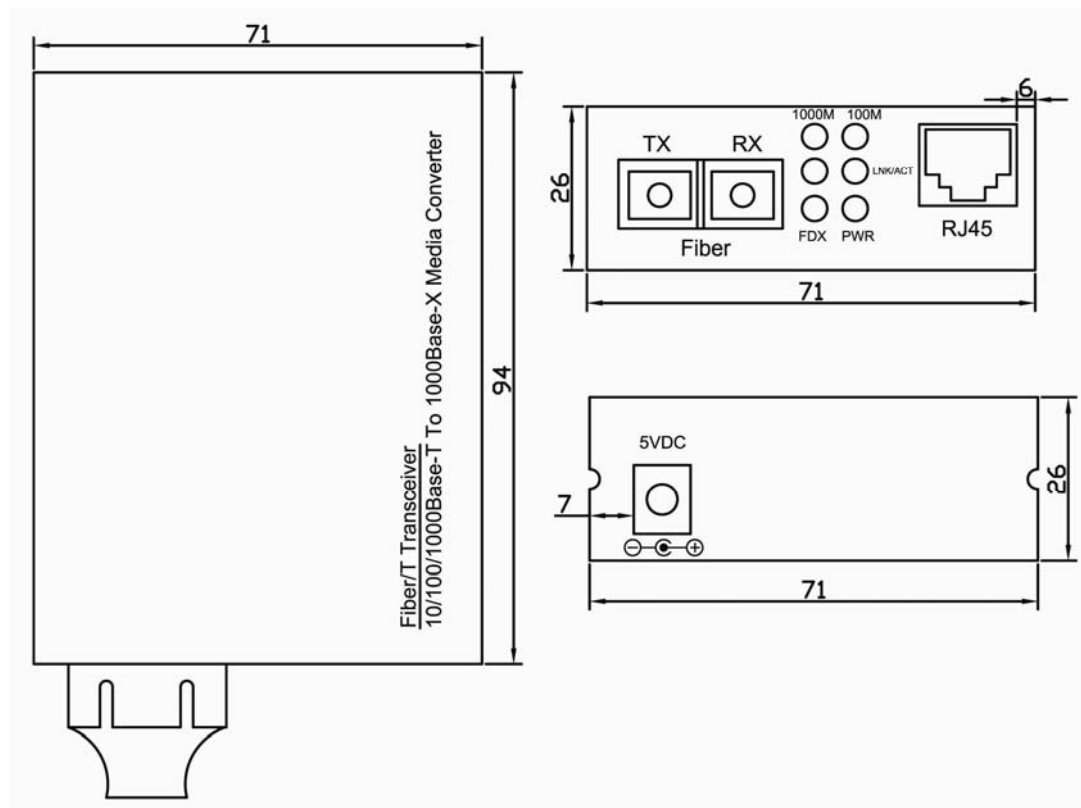


10/100/1000M Ethernet Fiber Media Converter

Key Features

- ☑ In conformity to IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX and IEEE802.3z standards.
- ☑ Built-in high efficient SRAM data storage space, with 1K query table, and 4-way associative hash algorithm.
- ☑ Supports back pressure flow control, IEEE802.3x and half duplex.
- ☑ Supports MDI/MDI-X auto-sensing.
- ☑ Optional internal or external power supply.
- ☑ Optional SC, ST, FC, or LC optical fiber connector.
- ☑ LED indicators display the equipment's operating status.
- ☑ Supports 2U, 14-slot rack-mounted (for external power supply, desk type media converter only); supports 1U, 14-slot rack-mounted (for card type, gigabit media converter only);

Connection Diagram



Technical Parameter

	10/100/1000M Media Converter
Protocol	IEEE 802.3 10 Base-T IEEE 802.3u 100 Base-TX IEEE802.3z IEEE802.3abstandard.
Connector	one UTP RJ-45 connector one SC/ST/ connector
Operating mode	full duplex mode or half duplex mode
Power supply	Power adapter (External): 110-265V AC input, 5V1A DC output Power supply (Internal): 110-265V AC input, 5V1A DC output
Operating temperature	0°C~50°C
Relative humidity	5%~90%
TP Cable	Cat5 UTP cable
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
Dimensions	External power supply: 94mm (L) x 71mm (W) x 26mm (H) Internal power supply: 150mm (L) x 110mm (W) x 28mm (H)

LED indicator lamps

LED indicator	Status	Explanation
Link/Act	On	Connection status display for link. “ON” indicates that link is in correct connection.
	Blink	Active status display of fiber port or RJ45 port. “Blink” indicates packet goes through media converter.
FDX	On	Transceiver works in the full duplex mode.
	Off	Transceiver works in the half duplex mode.
PWR	On	Power is on and normal.
1000	On	Transfer rate of electric interface is 1000Mbps.
100	On	Transfer rate of electric interface is 100Mbps.

Transmission characteristics of single fiber transceiver

Product model	Optical wavelength (nm)	Transmitting optical power (dBm)	Receiving sensitivity (dBm)	Standard loss (dBm)
Single/SC/SM 20km	1310/1550	≥-9	-24	1310nm 0.4dBm/KM 1550nm 0.25dBm/KM 1490nm 0.25dBm/KM
Single/SC/SM 40km	1310/1550	> -4	-24	
Single/SC/SM 60km	1310/1550	> -1	-24	
Single/SC/SM 80km	1490/1550	≥ 0	-24	

Transmission characteristics of dual fiber transceiver

Product model	Optical wavelength (nm)	Transmitting optical power (dBm)	Sensibility (dBm)	Loss enable (dBm)
Dual/SC/MM 550m	1310	-10 ~ -5	-23	7
Dual/SC/SM 20km	1310	-9 ~ -3	-24	11
Dual/SC/SM 40km	1310	-2 ~ 3	-24	20
Dual/SC/SM 60km	1550	-3 ~ 2	-24	19
Dual/SC/SM 80km	1550	-3 ~ 2	-24	24
Dual/SC/SM 100km	1550	0 ~ 3	-27	27

Volume, Box Volume and Weight info

10/100/1000M Ethernet Fiber Media (External power supply) Volume				
Product Name	Length	Width	Height	Volume
10/100/1000M Ethernet Fiber Media (External power supply)	94mm	71mm	26mm	173524mm ³
10/100/1000M Ethernet Fiber Media (External power supply) Box Volume				
Product Name	Length	Width	Height	Volume
10/100/1000M Ethernet Fiber Media (External power supply)	240mm	126mm	53mm	1602720mm

10/100/1000M Ethernet Fiber Media (External power supply) Weight		
Product Name	Weight	Each Net Weight
10/100/1000M Ethernet Fiber Media (External power supply)	0.4kg	0.26kg

Ordering Information

Product	Description	Unit
10/100/1000M Fiber Media Converter	Dual fiber, multi-mode, 550m, 1310nm	set
	dual fiber, single-mode, 20KM, 1310nm	set
	dual fiber, single-mode, 40KM, 1310nm	set
	dual fiber, single-mode, 60KM, 1310nm	set
	dual fiber, single-mode, 80KM, 1550nm	set
	dual fiber, single-mode, 100KM, 1550nm	set
	dual fiber, single-mode, 120KM, 1550nm	set
	single-fiber, single-mode, 20km, 1310nm/1550nm	pair
	single-fiber, single-mode, 40km, 1310nm/1550nm	pair
	single-fiber, single-mode, 60km, 1310nm/1550nm	pair
	single-fiber, single-mode, 80km, 1490nm/1550nm	pair
	single-fiber, single-mode, 100km, 1490nm/1550nm	pair
	single-fiber, single-mode, 120km, 1490nm/1550nm	pair