10/100M Media Converter without LFP

AT-C235S1SC-20 (TX1310/RX1550)

General Description

The media converter transform the transmission media of Ethernet signal from CAT5 to optical fiber. It can extend the transmission distance to several kilometer or hundred kilometer.

Using media converter is an economical solution to achieve long distance transmission base on current status.

Image

Single Fiber

Features

1. Standard: IEEE 802.3 10 Base-T standard, IEEE 802.3u 100 Base-TX/FX standard; Support CSMA/CD Protocol. Auto-negotiation and speed autosensing support
2. Built in 128Kb RAM for data buffer.
3. Back pressure flow control for full duplex IEEE802.3 X and half duplex.
4. Automatic identification of MDI/MDI-X cross line.
5. Support 1536 bytes packets.
6. Power from external power adapter.
7. Fiber connector (WAN): SC, ST, FC connector for multimode and single mode.
8. LED display for link/activity, full/half, 10M/100M.
9. Transmission distance can reach 2km for multimode and 120KM for single mode
10. Can be rack mounted in 14 slots chassis (external Power supply)

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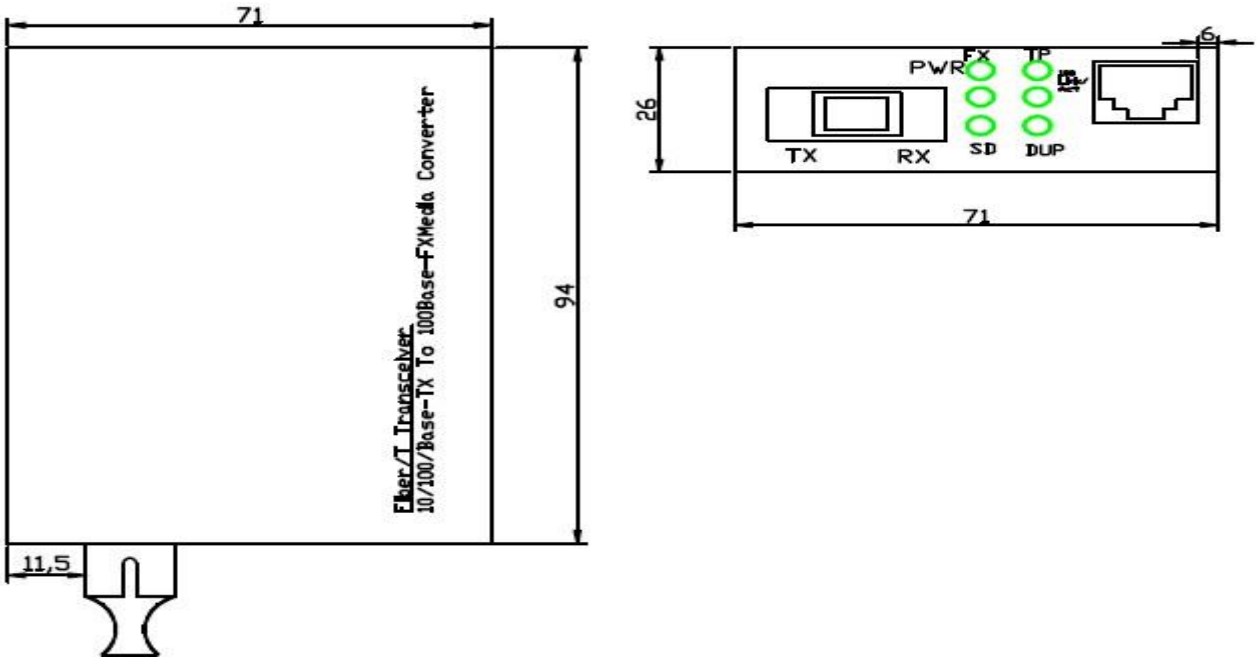
External Product Structure(Units:mm)



LED indicator serve as device monitoring and trouble display.

LED indicator	Status	Explanation
FX Link/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.
TP Link/Act	On	Connection status display for electric link. "ON" indicates that electric link is in correct connection.
	Blink	Active status display of electric link "Blink" indicates packet goes through Tx end.
DUP	On	Transceiver works in the full duplex mode.
	Off	Transceiver works in the half duplex mode.
PWR	On	Power is on and normal.
SD	On	Fiber signal is detected.
100	On	Transfer rate of electric interface is 100Mbps.
	Off	Rate of electric interface is 10Mbps

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Transmission characteristics of single fiber transceiver

Single fiber	Interface	Wavelength (nm)	Transmitting optical power (dBm)	Receiving sensitivity(dBm)	Transmission distance(km)	Loss allowed (dBm)
SM	SC	1310/1550	-14~ -3	-32	20	Standard loss:1310nm 0.4/km; 1550nm 0.25/km
SM	SC	1310/1550	-8 ~ -3	-35	30	
SM	SC	1310/1550	-5 ~ 0	-36	40~60	
SM	SC	1310/1550	-3 ~ 3	-36	60~80	

Technical Parameter

	10/100M Multimode Media converter	10/100M Single Media converter
Cable	MM fiber/twist pair	SM fiber/twist pair
Operation Mode	full duplex mode or half duplex mode	
Connector	One UTP RJ-45connector, one SC/ST/FC or one LC connector	
Power Supply	outside: 5V DC 1A built-in: 110-265V AC or 48V DC or 12V DC(optional)	
Data Buffer	128Kb	
Environmental temperature	0~60 degrees	
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	
Relative Humidity	5%-90%	
Size	94mm x 71mm x 26mm (Power external type) 160mm x 129mm x 33mm(Power internal type)	

Ordering Information

Product	Description	Unit
10/100M Media Converter(Telecom Network Products, 220V power outside, standalone, suitable to 2U 14 slots rack mount media converter)	single-mode, 20km, 1310nm/1550nm	pair
	single-mode, 40km, 1310nm/1550nm	pair
	single-mode, 60km, 1310nm/1550nm	pair
	single-mode, 80km, 1310nm/1550nm	pair
	single-mode, 100km, 1310nm/1550nm	pair
	single-mode, 120km, 1310nm/1550nm	pair

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