

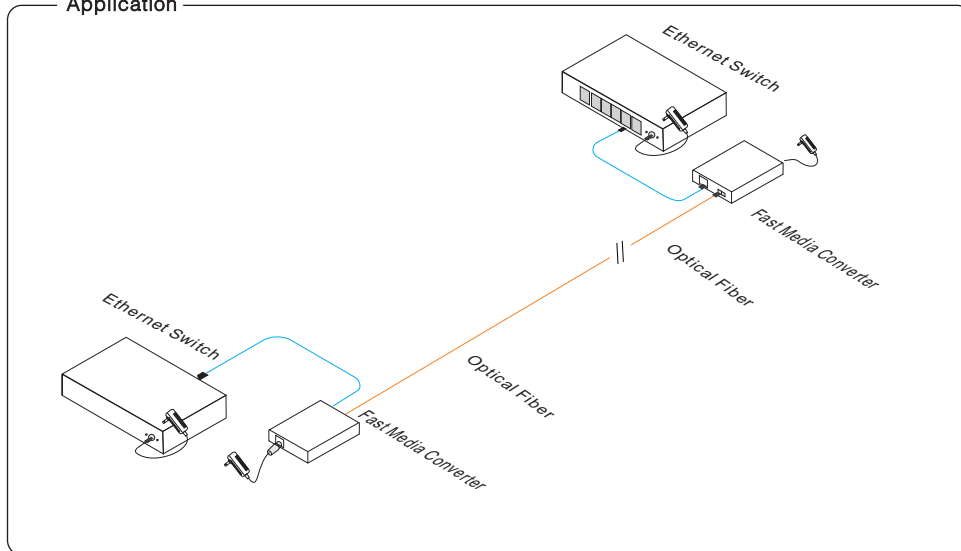
Fast Media Converter

single mode single fiber SC 20km

A: Transmitter 1310/1550nm B:Receiver 1550/1310nm

It is fast ethernet fiber optic transmission equipment which can converter between two different network cable and optical fiber transmission medium. Support 100Mbps network bandwidth. This product can be used in pair and also can be used with other equipment. It is widely used in surveillance, home network fiber, etc.

Application



Feature

- Provide 100Mbps 1 fiber optic port and 1 Ethernet port which can converter between 10/100BASE-TX and 100BASE-FX;
- Compatibility with IEEE 802.3u 100BASE-TX/FX;
- Support 10/100Mbps full/half duplex automatic adaptation, support automatic MDI/MDIX.

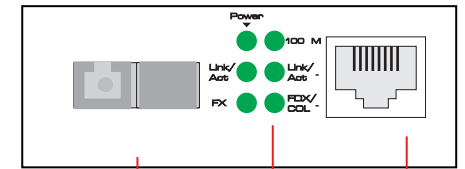
Board Diagram

Rightside



Power Input

Leftside



Fiber Port

Power&Fiber LED Indicator

Copper Port

LED Indicator Instruction:

LED	Function	Status	Instruction
PWR	Power	On	Power on
		Off	Power off
FX	Fiber Port Signal Detection	On	Fiber signal receive well
		Off	No fiber signal input
Link/Act	Fiber Port Connection Status	On	Fiber port connect well
		Flicker	Connect well, with data transmission
		Off	Fiber port without connect
100M	Ethernet Port Rate	On	1000M
		Off	100M
Link/Act	Ethernet Port Connection Status	On	Ethernet port connect well
		Flicker	Connect well, with data transmission
		Off	Ethernet port without connect
FDX/COL	Ethernet Port Full Duplex	On	Full Duplex
		Off	Half Duplex

Installation

Please check the following items before installation. If any missing, please contact the dealer.

- Fast Media Converter 1pc
- Power Adapter 1pc
- User Manual 1pc

Installation Steps

- 1) Please turn off the power related to the device before installation;
- 2) Please check if the network cables being taken up by other device;
- 3) Please connect LAN port of Converter and NVR or network device like computer with network cable;
- 4) Use a optical fibers with single-mode one fiber connect with fiber port of two Converters;
- 5) Please check if the installation is correct and power the system;
- 6) Please check if the network is working.

Specification

Item	Description	
Power	Power Supply	Power Adapter
	Power Voltage	DC5V
	Consumption	<5W
Ethernet Port	Ethernet Port	LAN Port: 100Mbps
	Transmission Distance	LAN Port: 0 ~ 100m
Fiber Port	Fiber Port	single mode single fiber SC 20km A: Transmitter 1310/1550nm B:Receiver 1550/1310nm
	Bandwidth	155Mbps
	Transmission Distance	20km
Network Standard	Compatible with	IEEE802.3, IEEE802.3u10/100BASE-TX and 100BASE-FX
LED Status Indicator	Power	1 Green
	Ethernet	3 Green (1000M, Link/Act, FDX/COL)
	Fiber	2 Green (Link/Act, FX)
Protection	ESD	1a Contact Discharge 3 1b Air Discharge 3 Per IEC61000-4-2
	Lightning Protection	Power: 2KV Signal: 1KV Per: IEC61000-4-5
Environmental	Working Temperature	0°C~55°C
	Storage Temperature	-40°C~70°C
	Humidity (non-condensing)	0~95%
Mechanical	Dimension (L x W x H)	26mm x 71 mm x 94mm
	Material	Aluminum Alloy
	Color	Black
	Weight	160g
Stability	MTBF	>30000h

Product are subject to change without prior notice

Trouble Shooting

Please find the following solution when the device doesn't work

- Please confirm if the installation is correct;
- Please confirm if the RJ45 cable order in accordance with the EIA/TIA568A or 568B industry standards;
- The maximum transmission distance is depend on the signal source and cable quality, please do not over the maximum transmission distance;
- Please replace a normal device with a failure one to check if the device is broken;
- If the problem still exist, please contact the factory.

RJ 45 Making Method

Instruments to be used: wire crimper, network tester.

Wire sequence of RJ45 plug should conform with EIA/TIA568A or 568B.

- 1) Shuck off about 2cm long the insulating layer, and bar the 4 pairs UTP cable;
- 2) Depart the 4 pairs UTP cable and straighten them;
- 3) Line up the 8 pieces of cables per EIA/TIA 568A or 568B;
- 4) Brunt cut the cables to leave 1.5cm bare wire;
- 5) Plug 8 cables into RJ45 plug, make sure each cable is in each pin;
- 6)Then use wire crimper to crimp it;
- 7) Repeat above 5 steps to make the another end;
- 8) Using network tester to test the cable whether is working.

pin color	
1	white/green
2	green
3	white/orange
4	blue
5	white/blue
6	orange
7	white/brown
8	brown



EIA/TIA 568A

pin color	
1	white/orange
2	orange
3	white/green
4	blue
5	white/blue
6	green
7	white/brown
8	brown



EIA/TIA 568B



Notice

Make sure if one end is EIA/TIA568A, the other end should also be EIA/TIA568A.
Make sure if one end is EIA/TIA568B, the other end should also be EIA/TIA568B.