

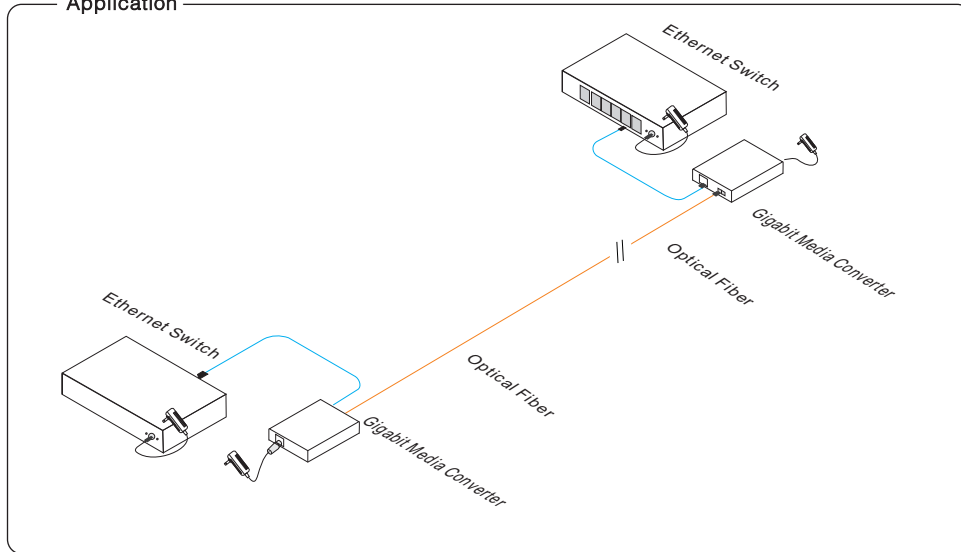
Gigabit Media Converter

single mode single fiber SC 20km

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

It is Gigabit ethernet fiber optic transmission equipment which can convert between two different network cable and optical fiber transmission medium. Support 10/100/1000Mbps 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 1000Mbps 1 fiber optic port and 1 Ethernet port which can convert between 10/100/1000BASE-T and 1000BASE-X;
- Compatibility with IEEE 802.3, IEEE 802.3u, 10/100/1000BASE-T and 1000BASE-X;
- Support 10/100/1000Mbps full/half duplex automatic adaptation, support
- automatic MDI/MDIX.

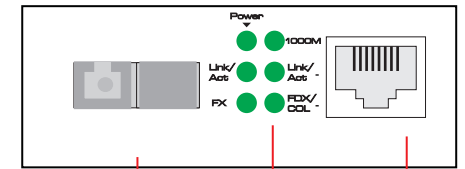
Board Diagram

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
1000M	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.

- Gigabit 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: 10/100/1000Mbps
	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	1.25Gbps
	Transmission Distance	20km
Network Standard	Compatible with	IEEE802.3u10/100/1000BASE-T and 1000BASE-X
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.