

➤ LED Description

1000M

Indicators	Status	Interpretation
TP100	On	100M speed is selected.
TP1000	On	1000M speed is selected.
TP TX	On	Data is being transmitted.
TPRX	On	Data is being received.
FX Lind	On	An active link is established/There are data transfer activities.
PWR	On	The power of the unit is on.

10/100/1000M

LED	Color	Function
100	Green	100M Speed is selected
SPD	Green	1000M Speed is Selected
TX	Green	Lit when TP Connection is good Blinks when TP data is present
FX	Green	Lit when Fiber Connection is good Blinks when fiber data is present
FDX	Green	Lit when full duplex mode is enabled
POW	Green	Lit when Power is available

➤ Technical Specifications

Item	1000M	10/100/1000M
Transmit type	(Rapid) Ethernet	(Rapid) Ethernet
Transmit mode	1000M Full/half duplex	10/100/1000M Full/half duplex
MTBF	>3 years	>3 years

Code error rate	<1E-8	<1E-8
Data buffer	1M	1M
Power stability	0.2mw/°C	0.2mw/°C
Optic power receiver's dynamic range (dBm)	-3 ~ -36	-3 ~ -36
Work temp	0°C -70°C	0°C -70°C
Store temp	-45°C~80°C	-45°C~80°C
Max current	600mA	600mA
Power waste	2.5w	2.5w
Compatibility	Compatibility	Compatibility
EMC	Accord with FCC Part15	Accord with FCC Part15

➤ Fiber Optic Detail:

	MM Mode	SM Mode-20
Connector Type	SC/ST	SC
Fiber Type	Multi-mode	Single-mode
Wavelength	850nm	1310nm
Typical Distance	0.5Km	20Km
Min TX PWR	-6.0dBm	-3dBm
Max TX PWR	-12.0dBm	-8dBm
Sensitivity	≤-17.0dBm	≤-21.0dBm
Link Budget	12.0dBm	15.0dBm

	SM Mode -50	SM Mode -80
Connector Type	SC	SC
Fiber Type	Single-mode	Single-mode
Wavelength	1550nm	1310nm
Typical Distance	50Km	80Km
Min TX PWR	-5dBm	-5.0dBm
Max TX PWR	0dBm	0dBm
Sensitivity	≤-23.0dBm	≤-24.0dBm
Link Budget	22.0dBm	30.0dBm

1000M 10/100/1000M Media Converter

User's Guide V 1.0

➤ Introduction

The Gigabit Fiber Media Converter provides a cost-effective solution for bridging between Gigabit networks, extending distance for networks. Three models are available for multimode ST fiber, Multimode SC fiber, and single mode SC fiber connections respectively.

➤ Specifications

1. Standard protocol: IEEE802.3Z/AB
1000Base-T/SX/LX
2. Transmit speed: TX port: 10、100、1000Mbps
or 1000M
FX port : 1.25Gbps
3. Interface: a UTP RJ-45 interface and a SC interface.
4. Work mode: full duplex or half duplex
5. Power parameter: outside: 110~275VAC or -48VDC
6. Environment temperature: 0 to 60°C
7. Relative temperature: 5% to 90%
8. TP cable: 5 class and 6 class.
9. Transmit fiber:
 - a) multi-mode: 50/125, 62.5/12.5 or 100/140μm;
 - b) single-mode: 8.3/125, 8.7/125, 9/125 or 10/125 μm.
10. Sharp size:
 - External power Supply-26x82x106mm (10/100/1000M)
 - External power Supply-26x70x94mm (1000M)
 - Inner power Supply-30x110x140mm

➤ CE Mark Warning

These are Class A products. In a domestic environment these products may cause radio interface in which case the user will need to consider adequate preventative measures.

➤ Overview

The Gigabit Fiber Media Converter provides a cost-effective solution for bridging between Gigabit networks, extending distance for networks. Three models are available for multimode ST fiber, Multimode SC fiber, and single mode SC fiber connections respectively.

➤ Installation

1. Fiber media converter is used in pair. The representative connection is as follows:

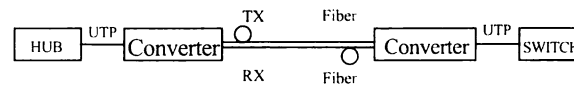


Fig 1

2. The straight twisted-pair or the cross twisted-pair can be used to link to RJ45 port or PC's network port.
3. The TX of a converter's should connect to the RX of another's. The type of fiber interface mainly is SC or ST and so on. Fiber available is as follows:
Multi-mode fiber: 50/125、62.5/125、100/140 μm
Single-mode fiber: 8.3/125、8.7/125、9/125、10/125 μm

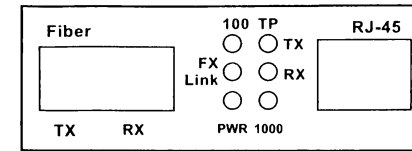


Fig.2 1000M Front

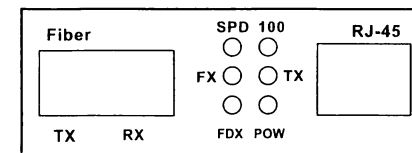


Fig.3 10/100/1000M Front

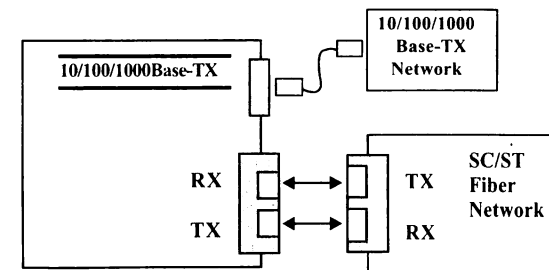


Fig.4 Basic Network Connection