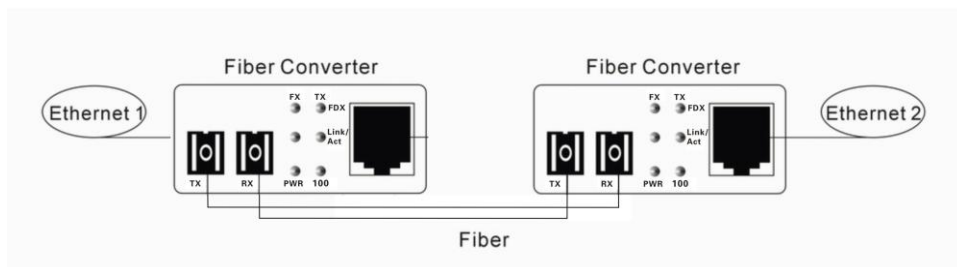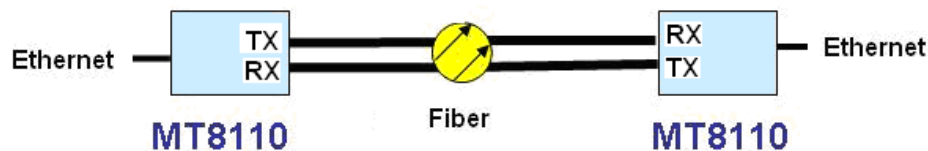| Ethernet to Fiber Optic Converter |
|---|
| Model: MT8110 |

MAIWE

◆ Brief introduction

MT8110 can reciprocally convert the signals of Ethernet and fiber optic. It achieves to transfer the Ethernet signal by fiber which can reach to much longer distance.

◆ Capability and feature

·Standard IEEE802.3 and 802.3u Fast Ethernet.

·10/100Mbps Ethernet and 100Mbps optic port.

·Full and half duplex communications.

·Surge and lightning influence protection, plus-and-play.

·LED indicator for work state

·Metal shell protects the device.

·External power supply.

◆ Connection and application

◆ Led indication

LED light	Function	State	Working
PWR	Power indication light	On	Power supply is being supplied
		Off	No power
FX LINK/ACT	100Base-FX port link state indication light	On	100Base-FX is active
		Blinking	Data is being transmitted
		Off	100Base-FX is inactive
FX-FDX	100Base-FX port working mode indication light	On	Full duplex
		Off	Semi duplex
TX-100	10/100 Base-TX signal indication light	On	100M signal
		Off	10M signal
TX LINK/ACT	10/100 Base-TX LINK state indication light	On	100Base-TX is active
		Blinking	Data is being transmitted
		Off	100Base-TX is inactive
TX-FDX	10/100 Base-TX working state indication light	On	Full duplex
		Off	Semi duplex

◆ Parameters

Power supply	2.5w
Work current(mA)	200mA
Baud rate(bps)	Ethernet 10/100M, fiber optic 100M
Port connector	Ethernet:RJ45,fiber optic: ST/SC/FC
Error rate	≤10^{-9}
Power stabilization	0.2Mw/℃
Data cache	1MBits
EMC	According to FCC part 15
Work temperature（℃）	-20~70
Stock temperature（℃）	-45~80
Relative humidity	0~95%
Dimension(mm)	95mm×70mm×26mm
IEEE standard	802.3,802.3u,802.3d

◆ Suitable fiber optic line

Multi-mode fiber optic line: 50/125, 62.5/125, 100/140um

Single mode fiber optic line:8.3/125, 837/125, 9/125, 10/125um

◆ MT8110 product type and each type parameters

Twist-Pair

Communication distance	Sent wave nm	Receive wave nm	transmitted power dBm	Receiver sensitivity dBm	light saturation dBm	Power loss dB/km
Multimode -2km	850	850	−10~−3	≤−24	≥−9	4
Multimode -2km	1310	1310	−22~-12	≤−30	≥−3	2
Singlemode -25km	1310	1310	−15~−8	≤−36	≥0	0.35
Singlemode -40km	1310	1310	−8~-3	≤−38	≥0	0.35
Singlemode -60km	1310	1310	−3~0	≤−38	≥0	0.35
Singlemode -80km	1550	1550	−5~0	≤−38	≥0	0.25
Singlemode -100km	1550	1550	≥-1	≤−38	≥0	0.25

Single fiber bi-directional

Communication distance	Sent wave nm	Receive wave nm	transmitted power dBm	Receiver sensitivity dBm	light saturation dBm	Power loss dB/km
Singlemode -25km	1310	1550	−15~−8	＜−36	＞0	0.35
Singlemode -25km	1550	1310	−8~-3	＜−36	＞0	0.25
Singlemode -40km	1310	1550	−3~0	＜−36	＞0	0.35
Singlemode -40km	1550	1310	−5~0	＜−38	＞0	0.25
Singlemode -60km	1310	1550	−3~0	＜−38	＞0	0.35
Singlemode -60km	1550	1310	−3~0	＜−38	＞0	0.25

◆ **Maintain and Service**

MT8110 has 5 years' guarantee. According to the Product Specifications of Maiwe, we will maintain or change the product for free which has any problem in this guarantee, of that is not including the destroy of error usage, accident, natural disaster and incorrect installation.

To ensure the customer's profit, we also provide some methods to help the customer and solve their problem as followings:

● Service on line

● Call for our customer service

Maintain or exchange

◆ **Warranty Policy**

According to the solving process, maintain, exchange or return should be confirmed by our technical staff. You have to contact our sales person to solve after this kind of negotiation.

1. We can one to one exchange the product in 3 month for the quality problem.

2. We guarantee to keep the product in good repair for 5 years.

◆ **General problem**

Normal problem	Problem reason	Problem solve
Power indication light off	Power socket not connect	Please connect power socket
Link/Act indication light off	1.RJ45 port line not connect	Please connect cable
	2.Not suitable cable	Please use this user manual suitable cable
	3.Ethernet equipment or network card not work	Please solve equipment these problem
FX and FX-Link/Act indication light off	1.Fiber optic equipment have problem 2.Fiber optic line cutoff or connect error 3.Fiber optic signal loss too much	Check if the remote Optical output power and then check the cause of problem.
TX and FX indication light working well, but not transfer Ethernet data	1.Optic cable and equipment have not correctly connect, then leading to the optical output powerless. 2.When the system just be charged or network have some changes, this equipment and Ethernet switch in network need self-healing.	1.Connect well each fiber optic connector 2. If our equipment and Ethernet switch connect for a long time but not transfer data, please refresh the system then charged again.