

Ethernet Fiber Optic Transceiver Model:UT-2177 10M&100M MFDIA CONVERTER

Term of Use

To help you with a better understanding of the product's functions and features, and to use the product correctly, effectively, and safely, please note the following:

- (1). Please read the instruction manul, and follow the procedures for installation and operations.
- 2. All devices' parameters have been appropriately set up before leaving the factory. Please do not change the settings.

I Introduction

The 10/100M fiberoptic transceiver is used for datacommunication between 100Base-TX twisted pair and 100Base-FX cable, or between 10Base-T twisted pair and 10Base-FL cable. It is the most suitable for the connectors be tween intelligent community, or fiber optic, and the desktop. It automatically adjusts 10Mbps and 100Mbps transmission speed, and it makes userupgrades more convenient. It enhances the network transmission distance from the limited 100M twisted pair to more than 100KM. It simply realizes the interconnection between server motherboard, repeaters, hubs, and terminals.

II. Functions and Features

- 1. The quality optical integration module provides excellent optical and electrical properties. It ensures reliable data transmission and long working life.
- 2. It supports both full-duplex and semi-duplex modes, and italso possesses auto-negotiation capability.
- 3. 10Mbps and 100Mbps adjust automatically. No manual adjustment required.
- 4. Electrical interface supports fully automatic cross-identification. No manual operation required.
- 5. Built-in store and forwardmechanism, cache 128KB, supports multiple protocols.
- 6. Support maximum transmission data packets of 1600 bytes
- 7. Conform with carrier-class operating standards, average 50,000+ no-error operation hours.
- 8. Power supply: DC5V Input 1A
- 9. SC fiber optic interface (ST or FC interface optional)

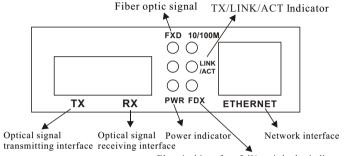
III. Appearance Description

DIP Switch:

- When DIP switch 1 is setto "OFF", switch and switch are not in operation mode. Switch 2 and 3 can only be configured when Switch 1 is set to "NO".
- When DIP switch 2 is set to "OFF", the electrical interface opearting rate is at 100M; when set to "NO", the interface operating rate at 10M.
- When DIP switch 3 is set to "OFF", the electrical interface is at full-duplex operation status; when set to "NO", the interface is at semi-duplex operation status.
- When DIP switch4 is setto "OFF" .LFP function isbanned; when setto "NO". LFP alarm function is then activated. LFP function is used to detect the connection between optical and electrical interfaces. When remote optical or electrical interface is disconnected, itnotifies and disconnect the corresponding local optical or electrical interface, and the indicator will be off. This helpstechnicians to quickly identify the point of connection error.

Side view





Electrical interface full/semi-duplex indicator

IV. Technical Standards

EEE802.3 Ethernet and IEEE802.3 U Ethernet are supported 1. Technical Parameters

Index parameter		Technical parameter					
		Multi-mode		Single mode			
Optical Properties	Emission wavelength nm	850	1310	1310	1550		
	Transmission distance km	0 ~ 2	0 ~ 5	10 ~ 60	15 ~ 120		
	Emission Power dBm	-5 ~ -18	-5 ~ -18	-12 ~ 2	-12 ~ 2		
	Receiving sensitivity dBm(≤)	-28	-32	-35	-35		
	Optical saturation dBm	-3	-3	-3	-3		
	Optical loss dBm/km	-3	0.5	0.4	0.25		
	Fiber optic interface type	SC, FC, STinterfaces, optional					
Otherrequirements	Receive and Send data rate	100Mbps、10Mbps					
	Cache	128KB					
	Operation mode	Full/semi-duplex mode					
	Power supply requirement	DC5V/1Apower supply					
	Operation termperature	0 ~ 70 ℃					
	Storage temperature	-40 ~ 70 ℃					
	Relative humidity	5% ~ 90%					
	Dimensions	103mm × 71.5mm × 26mm					

2. Fiber connection parameters

1 Transmission fiber optic Multi-mode: 50/125, 62.5/125, 100/140 µ m

Single-mode: 8.3/125, 8.7/125, 9/125, $10/125 \mu m$

(2) Transmission Distance

Multi-mode: 5km

Single-mode: 20km, 40km, 60km, is user requires.

Connection cable UTP5: 100m

V. Equipment Installation and Startup

1. Check box

Open the package and check items with List 5-1. If anything missing or damaged, please contact your local distributor immediately.

List 5-1 Supplies List

Name	External 10/100M	Power	Warranty	Instruction	Certificate
	Transceiver	supply	Card	Manual	of Conformance
Quantity	1	1	1	1	1

2. Installation

Install according to the following illustration (Figure 5-1)

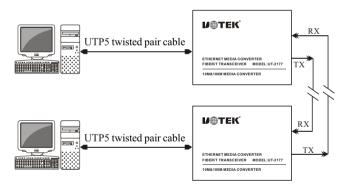


Figure 5-1

3 Equipment Operation Status Indicator Status

- When PWR indicator is on, the power supply is normal.
- When 10/100M indicator is on, the fiber optic transceiver is opearting at 100MBPS.
- When the fiber optic cable is connected correctly, the FX/LINK/ ACT indicator lights on. It flashes when data is in transmission.
- When the twisted pair cable is connected correctly, TX/LINK/ ACT indicator lights on. It flashes when data is in transmission.
- When the twisted pair cable is operating at full-duplex mode, FDX lidicator lights on. Otherwise it is operating at semiduplex mode.

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