Ethernet to optical transceiver
Model:UT-2601
10M&100M MEDIA CONVERTER

Instructions:
To enable you to fully understand the product features, correct, effective and safely use this product, please note the followings:
①. Read this manual carefully, follow the instruction to install and use.
②. All the parameters have been set well before their shipping; please do not change the settings by yourself.

I. Summary

Our 10/100M fiber optic transceiver used for 100Base-TX twisted pair and 100Base-FX fiber optic cable or data communication between 10Base-T twisted pair and 10Base-FL fiber optic cable. Auto-adapt 10/100Mbps, easy to upgrade. It can extend the limit of the network transmission distance from 100M of the twisted-pair to 100KM above. It can easily achieve the interconnection among the motherboard servers, repeaters, hubs, terminals and terminal.

II. Features

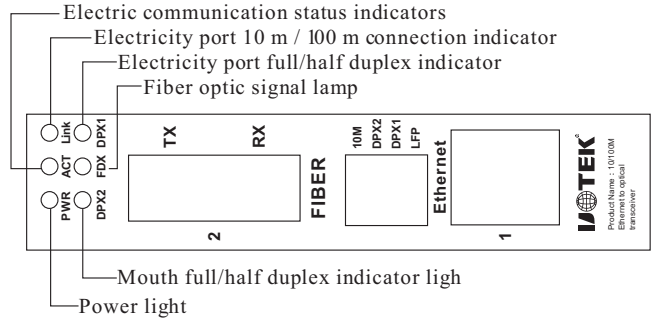
1. Use the high quality of photoelectric integration module provides good optical and electrical properties, ensure reliable data transmission, long working life.
2. support for full duplex or half duplex mode with automat ic negot iation ability.
3. 10 MBPS and 100 MBPS at the same time automatically adapt, no manual adjustment.
4. Support automatic cross identification, no manual switch operation.
5. inside take a store-and-forward mechanism, cache 288 KB, support for multiple protocols.
6. the maximum transmission support packets 2046 bytes long
7. in line with the telecommunication level operation standard, the average trouble-free working in more than 50000 hours.
8. working power supply: DC9 ~ 48 v / 50 ma
9. use of SC fiber interface (optional ST, FC interface)

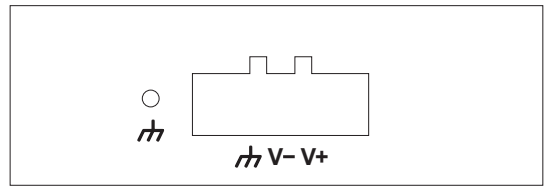
Ⅲ. Appearance

Dial the code switch function

- Dial the code switch 1 set to "OFF" when the electrical work in the 100 m speed, the port set to "ON", the electrical work in 10 m rate.
- Dial the code switch 2 set to "OFF", the light work in a state of full duplex, set to "ON",port work in half duplex mode.
- Dial th e code sw itch 3 set to "OFF" when the port 2 work in full-duplex state is set to "ON", light port work in half duplex state.
- Dial the code switch 4 set to "OFF", prohibit LFP function, set to "ON", enabling the LFP alarm function; LFP function is to detect light and electricity connection state of port, when the remote light port or electricity disconnected, will inform and disconnect the light of the local corresponding port or port, and will put out lights, convenient engineering technical personnel fast detect connection point of failure.

Side panel view





Ⅳ Technical standards

Support the IEEE802.3 Ethernet, IEEE802.3 U Ethernet protocol standard

1. The technical parameters:

Indicator parameters		Technical parameters			
		Multimode		Single-mode	
Optical properties	Emission wavelength nm	850	1310	1310	1550
	Transmission distance km	0 ~ 2	0 ~ 5	10 ~ 60	15 ~ 120
	Transmit power indBm	-5 ~ -18	-5 ~ -18	-12 ~ 2	-12 ~ 2
	Receiver sensitivity indBm(≤)	-28	-32	-35	-35
	Light saturation dBm	-3	-3	-3	-3
	Optical loss dBm/km.	-3	0.5	0.4	0.25
	Optical interface type	SC、FC、ST Interface optional			
Other requirements	Send and receive data rate	100Mbps、10Mbps			
	Cache	288KB			
	Operating mode	Full duplex / half duplex mode			
	Power Requirements	Power:DC9-48V/500mA			
	Operating Temperature	-40 ~ 85℃			
	Storage Temperature	-55 ~ 150℃			
	Relative humidity	5% ~ 90%			
	Dimensions	100mm × 80.5mm × 35mm			

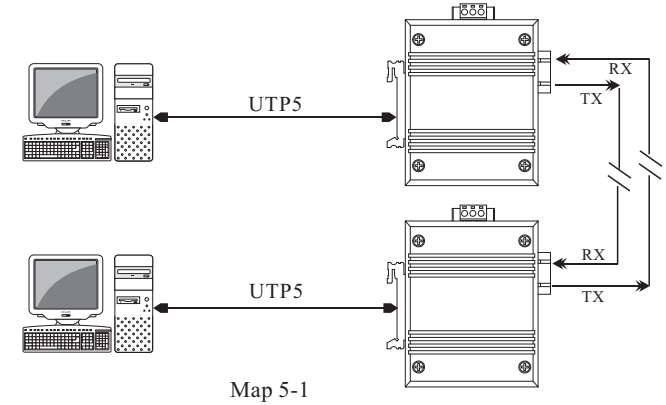
2. the optical fiber connection parameters
① transmission fiber
Multimode: 50/125, 62.5/125, 100/140 μ m
Single-mode: 8.3/125, 8.7/125, 9 / 125, 10/125 μ m
② transmission distance
Multi-mode: 5km
Single-mode: 20km, can be customized according to user needs 40Km, 60Km, 120km.
Connection cable UTP5 class lines: 100m

Ⅴ. Installation

1. Check the box
Open the box, check table (5-1), if defect, please contact your local dealer.
Table 5-1 lists available

Name	External type 10/100M transceiver	Guide groove	User manual	Screw
Quantity	1	1	1	3

2. Installation
According to the installation diagram (Figure 5-1) to Install.



Map 5-1

3. The equipment working condition
The state of the light

- PWRS indicator said, electricity power supply is normal.
- LINK indicator according to the optical transceiver working at 100Mbps.
- FDX indicator said fiber connection correct, flash is to transmit data.
- ACT indicator said twisted-pair cable connected correctly, flash is to transmit data.
- DPX1, DPX2 indicator said work in full duplex, otherwise to half duplex mode.