



4-port Ethernet to optical transceiver
Model:UT-2574
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.

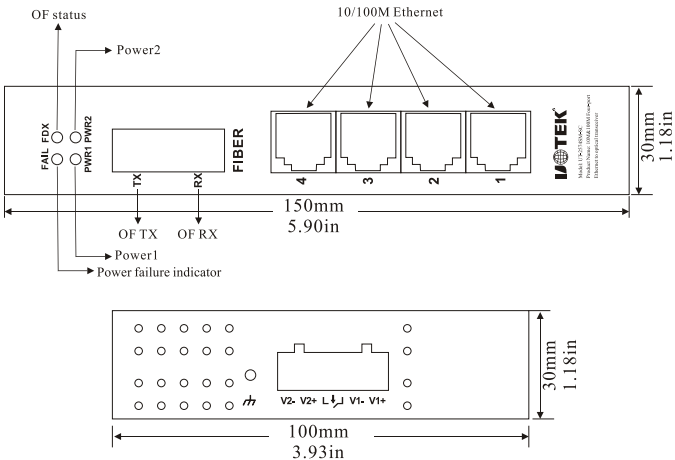
I. Summary

Our 10/100M fiber optic transceiver used for 100Base-TX twisted pair and 100Base-FX fiber optic cable or data communication between 10 Base-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. It uses a high-quality photoelectric integration module to provide good optical properties and electrical properties to ensure reliable data transmission, with a long working life.
- 2. Support full-duplex or half duplex mode, and with auto-negotiation capability.
- 3. 10 MBPS and 100 MBPS adapted to automatically.
- 4. So support automatic cross recognition
- 5. With store and forward mechanism, cache 1MB, support for multiple protocols.
- 6. Support the maximum transmission packet size of 1600 bytes of data.
- 7. in line with carrier-class operating standards, MTBF 50,000 hours or more.
- 8. Power supply:DC12~48V/500Ma (can reverse connection)
AC12~38V/560mA
- 9. Use SC fiber optic interface (ST or FC)
- 10. Surge shock protection: 3000V (power supply)
- 11. ESD electrostatic protection: 4000V(Ethernet).
- 12. Automatic alarm function by Fail, relay output.
- 13. DC power supply input overload protection.

Side panel view



III. 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 in dBm	-5 ~ -18	-5 ~ -18	-12 ~ 2	-12 ~ 2
	Receiver sensitivity in dBm(≤)	-28	-32	-35	-35
	Light saturation dBm	-3	-3	-3	-3
	Optical loss dBm/km.	-3	0.5	0.4	0.25
Other requirements	Optical interface type	SC, FC, ST Interface optional			
	Send and receive data rate	100Mbps, 10Mbps			
	Cache	1MB			
	Operating mode	Full duplex / half duplex mode			
	Power Requirements	DC12-48V/400mA, AC12-48V/400mA			
	Operating Temperature	-10 ~ 60℃			
	Storage Temperature	-55 ~ 150℃			
	Relative humidity	5% ~ 90%			
	Dimensions	150mm × 100mm × 37mm			

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

IV. Installation

1. Check the box

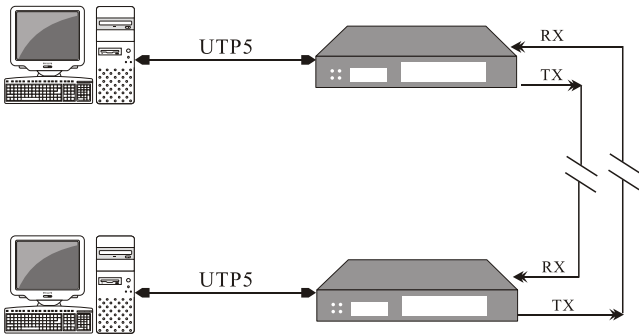
Open the box, check table (5-1), if defect, please contact your local dealer.

Table 5-1 lists available

Name	External 10/100M transceiver	Warranty card	User manual	Certificate	Screw	Guide groove
Quantity	1	1	1	1	6	1

2. Installation

According to the installation diagram (Figure 5-1) to install.



Map 5-1

3. The working state of the equipment

State of the light

- Rj45 light: Please connect the net cable, if you connect the cable to 100base, the left green light will be on. Otherwise the left green light will be off; The yellow light on the right is the network connection indicator light, when you connect the net line and the device works, the yellow light is flashing; if the net line is not be connected, the yellow and green light are all off.
- When FDX indicator light is on, it means that Optical fiber connection is correct. If the light is flashing, it means the device is transmitting data.
- When PWR1, PWR2 lights are on, it means the power is on and working.
- When Fail indicator light is off, it means the power is off.