

100/1000M Media Converters 20km

Product Brief Introduction

10/100/1000M Ethernet media converter adopts switching technology to fulfill media conversion. It complies with IEEE802.3z and IEEE802.3ab standards, and supports two types of media network connections: 10/100/1000Base-T and 1000Base-SX/LX. It inter-converts electrical signals of 10/100/1000Base-T twisted pairs with optical signals of 1000Base-SX, extending the transmission distance of a network from 100m via copper cables to 220m (fiber size: 62.5/125 μ m)/550m (fiber size:50/125 μ m) via fiber optical cables. It supports transmission in multi-mode dual fiber; single-mode dual fiber, single-mode single fiber.





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Main Feature:

- 1.Supporting inter-conversion between 10/100/1000Base-TXand 1000Base-SX
- 2.Supporting full-duplex and half-duplex and its auto-sensed
- 3.Supporting automatic cross connection of twisted pair interfaces, facilitating system commissioning and installation

- 4.Supporting the transmission of extra-long VLAN packets
- 5.Supporting Quality ofService (QoS) and ensuring the transmission of VoIP packets
- 6.Supporting STP to form a redundant network

Technical

Parameter	Specification
Access mode	10/100/1000Mbps Gigabit Ethernet
Standard	IEEE802.3ab 1000Base-T , IEEE802.3z 1000Base-SX/LX Gigabit thernet,IEEE802.1qVLAN,IEEE802.1p QoS,IEEE802.1d Spanning Tree

Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 220m (62.5/125μm)/550m (50/125μm) Dual-fiber single-mode: 25/40/60/80Km Single-fiber single-mode: 25/40Km Category-5 twisted pair: 100m
Port	One RJ45 connector:connected to STP/UTP category-5 twisted pair One fiber port: Multi-mode SC (fiber size: 50,62.5/125μm) Single modeSC/FC(fiber size: 9/125μm)
Conversion means	Media conversion
Delay	<10us
BER	<10 ⁻⁹
MTBF	100,000 hours
LED	PWR(power supply), FX LINK (optical link action), TP LINK1000 (twisted pair link1000M), TP LINK100 (twisted pair link100M), TP ACT (twisted pair packet forwarding)
PowerSupply	AC110-220V to DC5V 2A
Power consumption	5W
Operating temperature	-10~55°C
Operating humidity	5%~90%
Maintaining temperature	-40~70°C
Maintaining humidity	5% ~ 90% non-condensing
Dimensions	26mm (H) * 70mm (W) * 94mm (D) (external power

supply)

30mm (H) * 110mm (W) * 140mm (D) (internal power supply)



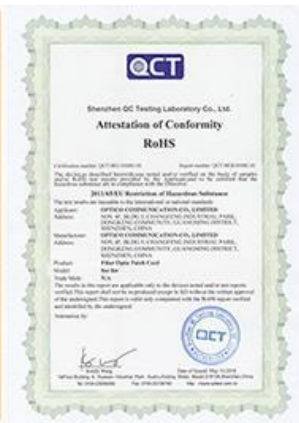
CE



CPR



ISO



RoHS

Installation:

1. Interface

RJ-45 interface

The transmission media adopts CAT5 twisted-pair with typical length of 100 meter. It features the function of automatically identifying the through line and cross wire

Fiber interface

SC/ST fiber interface is of duplex mode type, including two interfaces, namely TX and RX. When the two sets of optical transceiver are interfaced or connected to switch with fiber interface, the fiber is in cross connection, namely "TX-RX", "RX-TX" (direct butting for single optical fiber).

2. Connection

The network device(work station, hub or switch) with RJ-45 interface is connected to RJ-45 jack of optical transceiver through twisted-pair. And the

multi/single mode fiber is connected to SC/ST fiber interface of the optical transceiver. Then switch on. The corresponding LED is on for correct connection. (See the table below for the LED indicator lamp)

Cautions:

1. This product is suitable for indoor application.
2. Put on the dust cover of fiber interface when not used.
3. It is forbidden to stare at the TX fiber-transfer end with naked eyes.
4. Single optical fiber transceiver must be used in pair (See the attachment description in delivery).

Troubles Shooting:

1. Device is not matched. Please select the corresponding network device according to the transfer rate of the product (10Mbps or 100Mbps or 1000Mbps) when connected to other network devices (network card, hub, switch).
2. Line loss is excessive during the fiber wiring. Excessive loss in connector plug-in and fiber soldering welding, and excessive intermediate nodes may cause excessive loss rate or abnormal operation.