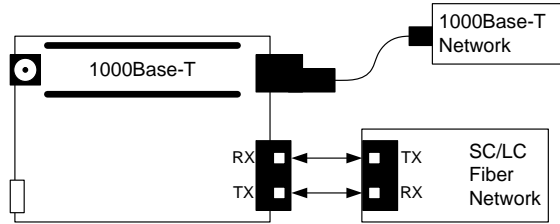




Gigabit Optical Transceiver

Model: OTP-SC-SM



The Gigabit optical transceiver supports IEEE802.3Z/AB 1000Base-SX/LX Protocol, full duplex and half duplex. The electric outlet is adaptive to the rate of 1000M Gigabit optical transceiver.

Packing List:

Please check the following items in the package before the installation of transceiver.

- 1x Gigabit optical transceiver
- 1x AC/DC adapter (outside)
- 1x Power line (Build-in)
- 1x Warranty Card
- 1x User Manual

Please contact the supplier immediately for any loss or damage to the above items

Installation

1. Interface

RJ45 Interface

The transmission media accepts CAT5 and CAT6 twisted-pair. It is recommended to use quality RJ45 and well-made jumper. It features the function of automatically identifying the through line and cross wire.

Fibre Interface

SC Fibre interface is of duplex mode type, two interfaces, namely TX and RX. When the two sets of optical transceiver are interfaced or connected to switchboard with fibre interface the fibre is in cross connection, namely "TX-RX" "RX-TX".

2. Connection

The network device (work station, hub or switch) with RJ45 is connected to RJ45 socket of optical transceiver through twisted-pair. The multimode (single more) fibre is connected to SC/ST fibre interface of optical transceiver. Then switch on.

The corresponding LED is on for correct connection.

Explanation for LED indicator

LED indicator indicates the working status of the transceiver for device monitoring and troubled display. The following is the explanation for each LED indicator.

LED indicator	Status	Explanation
TP 100	On	Lit when TP speed is 100Mbps.
TP 1000	On	Lit when TP speed is 1000Mbps.
TP FDX	On	Lit when TP full-duplex mode is active. Off when TP half-duplex mode is active. Blinks when collision signal present.
TP Act	On	Lit when TP connection is good. Blinks when TP data is transmitting.
FX Act	On	Lit when FX Connection is good. Blinks when collision signal is present.
PWR	On	Lit when -5V power is coming up.

Note: If both TP100 and TP1000 LED are off the TP Speed is 10Mbps



Fibre Parameters:

Product Model	Optical Wavelength (nm)	Optical Power (dBm)	Sensitivity (dBm)	Transmission Distance
TP-SC MM	850	-6-12	<-16	62 μ m: 275meter 50 μ m: 550meter
TP-SC SM	1310	-6-12	<-18	10Km
TP-SC SM	1310	-3-8	<-21	20Km
TP-SC SM	1550	0-6	<-30	50Km

Technical Parameters:

1. Standard Protocol:

IEEE802.3Z/AB
1000Base-T/SX/LX

2. Transfer Rate:

Electrical Interface: 1000Mbps
Fibre Interface: 1.25Gbps

3 Interface:

One UTP RJ45 interface
One SC interface

4. Operation Mode:

Full duplex mode or half duplex mode

5. Power Supply Parameter:

Outside: 5V DC 1A

6. Environmental Temperature:

0°C-60°C

7. Relative Humidity:

5%-90%

8. TP Cable:

5E, CAT 6, CAT 6+

9. Transfer Fibre:

Multi-mode: 50/125, 62.5/125 μ m
Single-mode: 8.3/125, 8.7/125, 9/125 or 20/125 μ m

10. Dimensions:

External Power Supply 95mm (W) x70mm (D) x26mm (H)
Built-in Power Supply 140mm (W) x 110mm (D) x35mm (H)

Cautions:

1. This production is suitable for indoor application only.
2. Put on the dust cover of fibre interface when not in use.
3. It is strongly recommended not to stare at the TX fibre-transfer end