User Manual

Fast Ethernet Optical Switch
(1 Fiber Port and 4 UTP Ports)

this fiber switch supports IEEE802.3U/100Base-Tx/Fx protocol, as well as 10/100M auto-negotiation full duplex and half duplex. The following purchasing guide

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is for customer's reference.

Model	Specification
JF954MM-2	10/100M,dual fiber,multimode 2km,SC
JF954SM-25	10/100M,dual fiber,single mode 25km,SC
JF954SM-40	10/100M,dual fiber,single mode 40km,SC
JF954SM-60	10/100M,dual fiber,single mode 60km,SC
JF954SM-80	10/100M,dual fiber,single mode 80km,SC
JF954SM-100	10/100M,dual fiber,single mode 100km,SC
JF954SM-120	10/100M,dual fiber,single mode 100km,SC
JF954SM-25A	10/100M,single fiber,single mode 25km,SC
JF954SM-25B	10/100M,single fiber,single mode 25km,SC
JF954SM-40A	10/100M,single fiber,single mode 40km,SC
JF954SM-40B	10/100M,single fiber,single mode 40km,SC
JF954SM-60A	10/100M,single fiber,single mode 60km,SC
JF954SM-60B	10/100M,single fiber,single mode 60km,SC

Packing List

When you unpack this product package, you will find the items listed below:

Fiber Switch	1 piece
AC/DC5V1A Adapter	1 piece
Copy of user manual	1 piece

Installation

1. Interface

RJ-45 Interface

RJ-45 Connector supports CAT5 twisted-pair with typical length of 100 meters. It features the function of MDI-MDIX through parallel lines.

Fiber Interface

SC/ST fiber interface is of 100M full-duplex mode,dual fiber(TX and RX)should be cross-connected(TX-RX,

RX-TX),direct connection for single optical fiber when the transmitter and receiver are interfaced or connected to switch with fiber interface.

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 multimode/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)

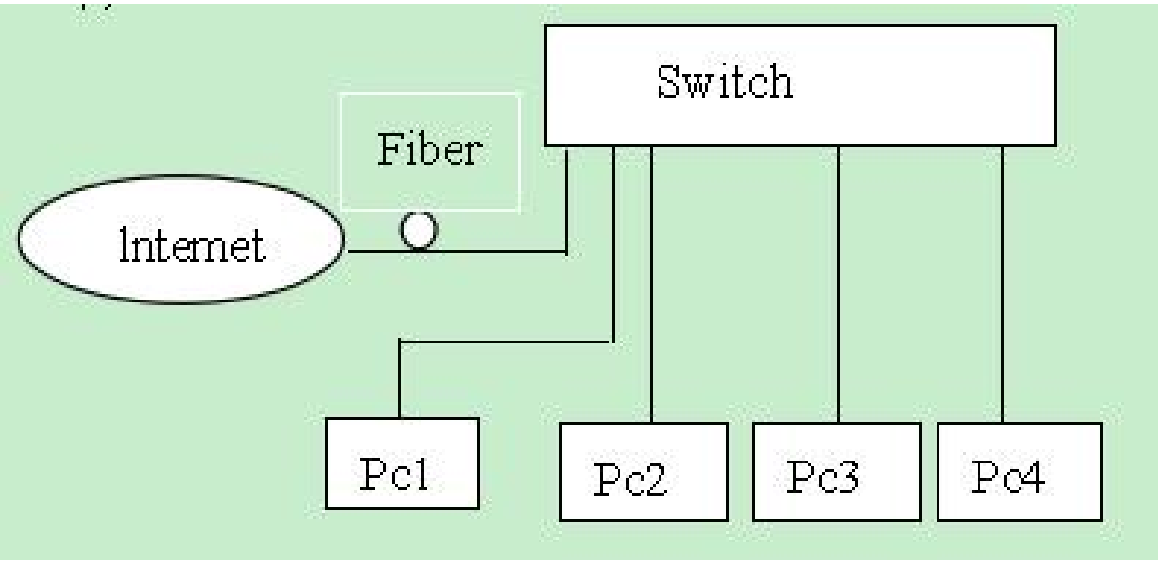

Figure 1 Schematic drawing of connection

- **Explanation for LED indicator lamp**

LED indicator lamps serve as device monitoring and trouble display.The following sheet is the explanation for each LED indicator lamp.

LED indicator lamp	Status	Explanation
SFP	On	Fiber link is in correct connection
	Blink	Packet goes through FX end
TX Link/Act	On	Electric link is correct
	Blink	Packet goes through TX end
PWR	On	Power is on and normal

Transmission Characteristic

Model	Optical wavelength (nm)	Tx Power (dBm)	Receiving Sensitivity (dBm)	Distance (KM)
JF954MM-2	1310	-22~-12	≤-30.0	≥2
JF954SM-25	1310	-15~-8	≤-38.0	≥25
JF954SM-40	1310	-8~-3	≤-38.0	≥40
JF954SM-60	1310	-3~0	≤-38.0	≥60

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JF954SM-80	1550	-5~0	≤-38.0	≥80
JF954SM-100	1550	≥-1	≤-38.0	≥100
JF954SM-120	1550	≥1	≤-40.0	≥120
JF954SM-25A	1310/1550	-15~-8	≤-36.0	≥25
JF954SM-25B	1550/1310	--8~-3	≤-36.0	≥25
JF954SM-40A	1310/1550	-8~-0	≤-36.0	≥40
JF954SM-40B	1550/1310	-8~0	≤-36.0	≥40
JF954SM-60A	1310/1550	-3~0	≤-36.0	≥60
JF954SM-60B	1550/1310	-3~0	≤-36.0	≥60

Main Features

1.In conformity to IEEE 802.3 10Base-T standard.In conformity to IEEE802.3u 100Base-TX/FX standard.

2.Support 1k MAC address.

3.Back pressure flow control for full duplex IEEE802.3X and half duplex.

4.Automatic identification of MDI/MDI-X cross line.

5.Support max forwarding package length 1552/1536 bytes option.

6.In conformity to safety code of FCC and 15 CLASS A and CE MARK.

Technical Parameters

Support IEEE 802.3z/AB 100Base-T/SX/LX/ZX

1.Connector: 4 UTP RJ45 connector, 1 SC/ST/FC connector.

2.Operation model: full duplex mode or half duplex mode.

3.Power supply parameter:

Outside: DC 5V1A

Built-in: 110-265V AC or 48V DC.

4.Operating environmental temperature: 0℃~60℃.

5.Relative humidity: 5%~90%.

6.TP cable: Cat5 UTP cable.

7.Transfer fiber:

multimode: 50/125, 62.5/125 or 100/140μm

single mode:: 8.3/125, 8.7/125, 9/125 or 10/125μm

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