

5. Installing the Gigabit Fiber Switch

1. Attach the SFP Module to SFP Cage on the Switch.
2. Attach fiber cable from the SFP on the Switch to the fiber network. The fiber connections must be matched: transmit socket to receive socket.
3. Attach a UTP cable from the TP network device to the RJ45 port on the Switch.
4. Connect the power adapter to the Switch and check that the Power LED lights up. The TP SPD, Act and SFP LEDs will light when all the cable connections satisfactory.

6. Technical Specifications

The Gigabit Ethernet Switch conforms to the following standards:

- **Standards:** IEEE 802.3z/AB 10/100/1000Base-T
1000Base-SX/LX/ZX
- **Fiber Cable:**
1000SX: 50/125, 62.5/125µm multi-mode
1000LX/ZX: 8.7/125, 9/125µm single-mode.
- **UTP Cable:** Cat.5e or Cat.6 cable up to 100m.
(only 9 port switch)
- **Data Transfer Rate:**
RJ45 port: 10M, 100M, 1000Mbps
SFP: 1000Mbps.
- **LED Indicators :**
SFP1-8, 1000, Link/Act, PWR.
- **Duplex Modes: RJ45 port: NWay Full/Half**
Duplex auto- negotiation
SFP: full-duplex mode

- **Power Requirement:** 220V(100-260V)AC, 50Hz
DC12/1A
- **Ambient Temperature:** 0 ~ 50°C
- **Humidity:** 5% ~ 90%
- **dimensions:** 25× 217× 115MM (H×W×D)

Gigabit Ethernet Switch User's Manual

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1. Overview

IEEE802.3z/AB 1000Mbps 10 port Gigabit Ethernet Switches supports two types media for network connection and switching such as 10/100/1000Base-T and 1000Base-SX/LX. The switch is designed with a switch controller and buffer memory that connects two types segments to operate smoothly. The Switch with 8 SFP port 1000Base-T/SX/LX and 2 RJ45 port 10/100/1000Base-T(selectable). The RJ45 port support Half or Full Duplex modes. All SFP ports support only 1000Mbps and Full-Duplex modes. With external power unit, it provides good stability and reliability.

2. Checklist

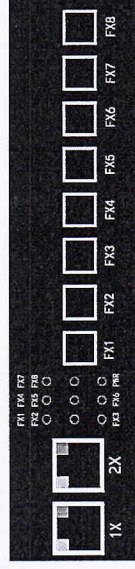
Before you installing the Switch, verify that the package contains the following:

1. The 10 port TP-SFP Gigabit Switch.
2. AC-DC Power Adapter.
3. This User's Manual.

Please notify your sales representative immediately if any of the aforementioned items is missing or damaged.

3. LED Description

There are 13 LED At Front View of 8 port Gigabit Ethernet Switch.:



1X/2X	Lit when TP speed is 1000Mbps
LINK	Lit when TP connection is good. Blinks when TP data is transmitting.
SFP1-8	Lit when SFPn connection is good or when SFPn data is transmitting.
PWR	Lit when +12V power is coming up.

n : 1-8

4. SFP Module Fiber Optic Technical Specifications

Connector type	1000Base-SX	1000Base-LX-20
Fiber type	LC	LC
Wavelength	Multi-mode	Single-mode
Max Distance	850nm	1310nm
Min TX PWR	62.5µm: 224m 50µm: 550m	20Km
Max TX PWR	-12.0dBm	-11.0dBm
Sensitivity	-6.0dBm	-5.0dBm
Link Budget	< -19dBm	< -22dBm
	7.0dBm	11.0dBm

Connector type	1000Base-LX-40	1000Base-LX-80
Fiber type	LC	LC
Wavelength	Single-mode	Single-mode
Max Distance	1310/1550nm	1550nm
Min TX PWR	40Km	80Km
Max TX PWR	-5.0/-10dBm	-3.0dBm
Sensitivity	0dBm	0dBm
Link Budget	< -25dBm	< -25dBm
	20.0/15dBm	22.0dBm

Single Fiber Technical specification

Connector type	1000Base-LX-20	1000Base-LX-40
Fiber type	LC/SC	LC/SC
Wavelength	Single-mode	Single-mode
Max Distance	1310/1550nm	1310/1550nm
Min TX PWR	20Km	40Km
Max TX PWR	-10.0dBm	-5.0/-10dBm
Sensitivity	-4.0dBm	0dBm
Link Budget	< -22dBm	< -25dBm
	12.0dBm	20/15dBm

Connector type	1000Base-LX-60	1000Base-LX-80
Fiber type	LC/SC	LC/SC
Wavelength	Single-mode	Single-mode
Max Distance	1490/1550nm	1490/1550nm
Min TX PWR	60Km	80Km
Max TX PWR	-6.0dBm	-1dBm
Sensitivity	0dBm	3dBm
Link Budget	-25dBm	< -26dBm
	19dBm	25.0dBm