Gigabit Ethernet Switch

User's Manual

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1. Overview

This 10 ports gigabit Fiber Switch provides a high-performance switch architecture that is capable of providing the non-blocking switch fabric and wire-speed throughput as high as 16Gbps,It offers 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. reducing substantial power consumption and creating a noiseless environment. It is definitely the best choice for any working environment without affecting its performance.
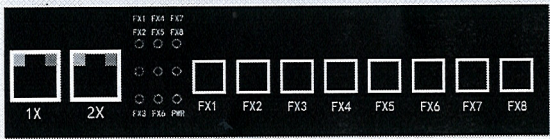
2. Checklist

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

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

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

Single Fiber Technical specification

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

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

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 10/1001000Base-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(100-240V)AC，50Hz
  DC12/1A
- **Ambient Temperature:** -10 ～ 50℃
- **Humidity:** 5% ～ 90%
- dimensions：25× 217× 115MM （H×W×D）