User Guide

8*10G SFP+ L3 Fiber Managed Switch

This document applies to the 8*10G SFP+ L3 Fiber Managed Switch. The 8*10G SFP+ is used as an example in the product figure unless otherwise specified.

Packing List

When using the Switch for the first time, carefully open the packing box. The packing box should contain the following items:

- ➢ Switch *1
- ➢ User Manual *1
- ➢ DC Adapter *1
- ➢ Console Line *1
- ➢ Accessories(Feet *4)

⚠ **Note:** Precision devices are built in the device, please handle them carefully to avoid violent vibration, which may affect the performance of the device. If you find that the equipment is damaged or any parts are lost in the process of transportation, please inform us, we will give you a proper solution as soon as possible.

Chapter 1 Product Introduction

1.1 Product Overview

8*10G SFP+ is our self-developed Layer 3 Fiber Managed Switch with 8*10Gbps SFP+ fiber modules and 1 Console port. It supports static routing function, provides complete security policy, perfect QoS policy and rich VLAN function, easy to manage and maintain, and meets the networking and access requirements of Enterprise, Community, Hotel, Office Network and Campus Network.

Chapter 2 Product Appearance Description

2.1 Front Panel

The front panel consists of 8*10G SFP+ fiber modules and 1 Console port with associated indicators, as shown in the following figure:
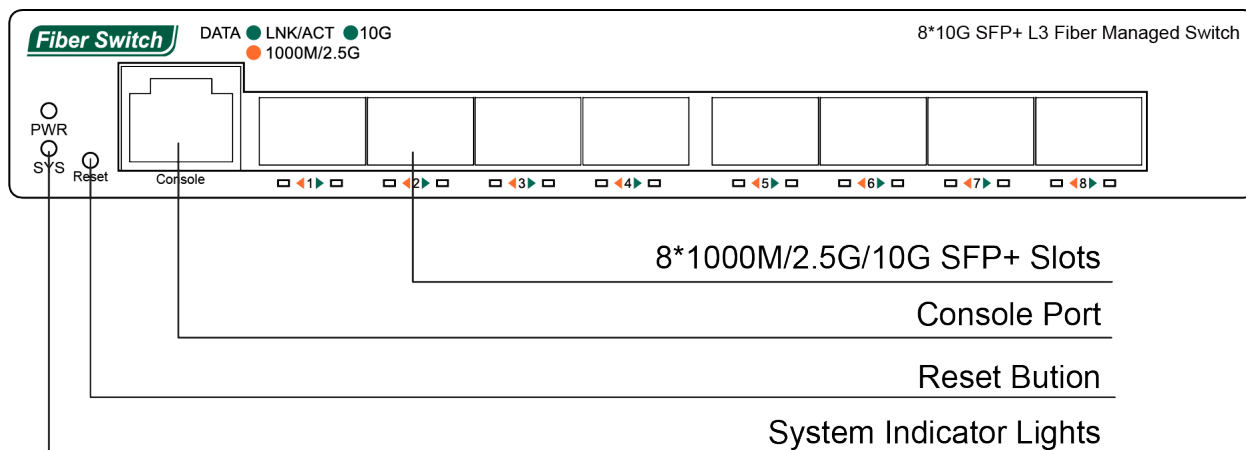

Figure 2-1 Switch front panel diagram

Port description:

➢ **10Gbps SFP+ Slots**

10 Gigabit optical port is backward compatible with 1000M/2.5Gbps transmission rate, need to use 10Gbps SFP+ 10 Gigabit optical module, support SR/LR/LRM/ER/ZR and other models, corresponding to 1-8 port indicator.

➢ **Console Port**

The Console port is used to connect to the serial port of a computer or other terminal device and to manage or configure the switch.

➢ **Reset Button**

A switch that can be automatically reset, long press 5s and release, that is, to restore the factory settings.

2.2 LED Indicator

The LED indicators of the Switch are shown in the following table. Users can monitor the work and running status of the Switch conveniently and quickly through the following indicators:

LED	Color	Function
PWR	Green	Off: No Power supply. Light: Indicates the Switch has power.
LNK/ACT	Orange	Light: Connection rate is 1000M/2.5Gbps. Off: The data port is disconnected. Blinking: The data port has data forwarding.
	Green	Light: Connection rate is 10Gbps. Off: The data port is disconnected. Blinking: The data port has data forwarding.
SYS	Green	Blinking: The system is working properly. Off or always on: The system is being started or is abnormal.

2.3 Rear panel

Rear panel diagram of the switch: DC power connector, lightning protection grounding post.

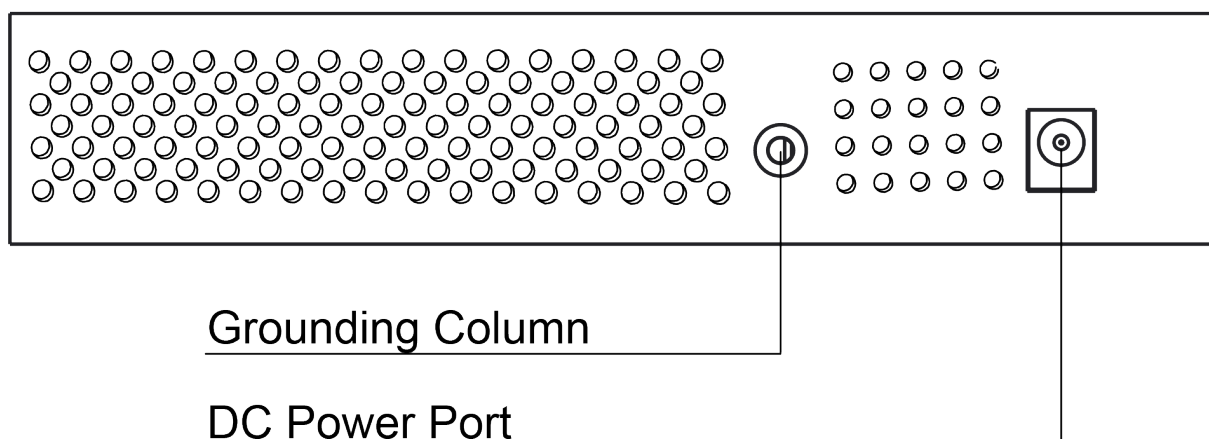Grounding Column

DC Power Port

Figure 2-2 Diagram of the rear panel of the switch

DC power port

Use 12V/2A power adapter, connect the DC connector of the adapter to this interface, and then connect the plug of the adapter to the AC power supply.

Grounding Column

It is located to the left of the power interface. Please use wire grounding to prevent lightning strike.

⚠ **Precautions: The product has provision for a permanently connected protective grounding conductor, this conductor need to install to building earth by a skilled person.**

Chapter 3 Installation Guide

This chapter helps users correctly install and safely use Switches.

3.1 Installation Precautions

⚠ **Precautions:** To avoid equipment damage and personal injury, observe the following precautions:

➢ The Switch room should be dry and ventilated, free from corrosive gases and strong electromagnetic interference.

➢ The humidity of the Switch equipment room should be lower than 90%. Install proper devices when possible.

➢ The grounding of the Switch shall comply with the grounding requirements described in this manual, and shall be separately and well grounded.

➢ The Switch voltage should be stable to prevent abnormal operation of the Switch caused by power supply voltage mutation, fluctuation and other phenomena;

➢ Keep a proper distance between the Switch and other devices. Do not stack other devices with the Switch.

➢ The connection cable between the Switch and the distribution frame should be standardized and reasonable, and the distribution frame (box) jumper wire should be concise and clear to prevent the phenomenon of parallel lines and wires;

➢ To avoid the danger of electric shock, do not open the chassis without authorization; If any fault occurs, contact professional maintenance personnel.

⚠ **Safety Tips:**

➢ Use a three-hole socket with safe grounding, and ensure that the PGND cable of the power socket is properly grounded.

➢ Ensure sufficient space for heat dissipation and ventilation of the Switch. Do not place heavy objects on the Switch.

3.2 Installation Environment

Before installation, make sure that the proper working environment is available, including power requirements, adequate space, proximity to other equipment to be connected, and other equipment in place. Please confirm the following installation requirements:

➢ Ensure the stability of the workbench and good grounding;

➢ Environment requirements: The operating temperature ranges from 0°C to 40°C and the

relative humidity ranges from 5% to 90%.

3.3 Installation

Desktop installation

➢ Place the bottom of the Switch face up on a large enough stable desktop;

➢ Tear off the attached sticky paper on the surface of the footpad and paste the footpad into the groove at the bottom of the chassis of the Switch to prevent external vibration;

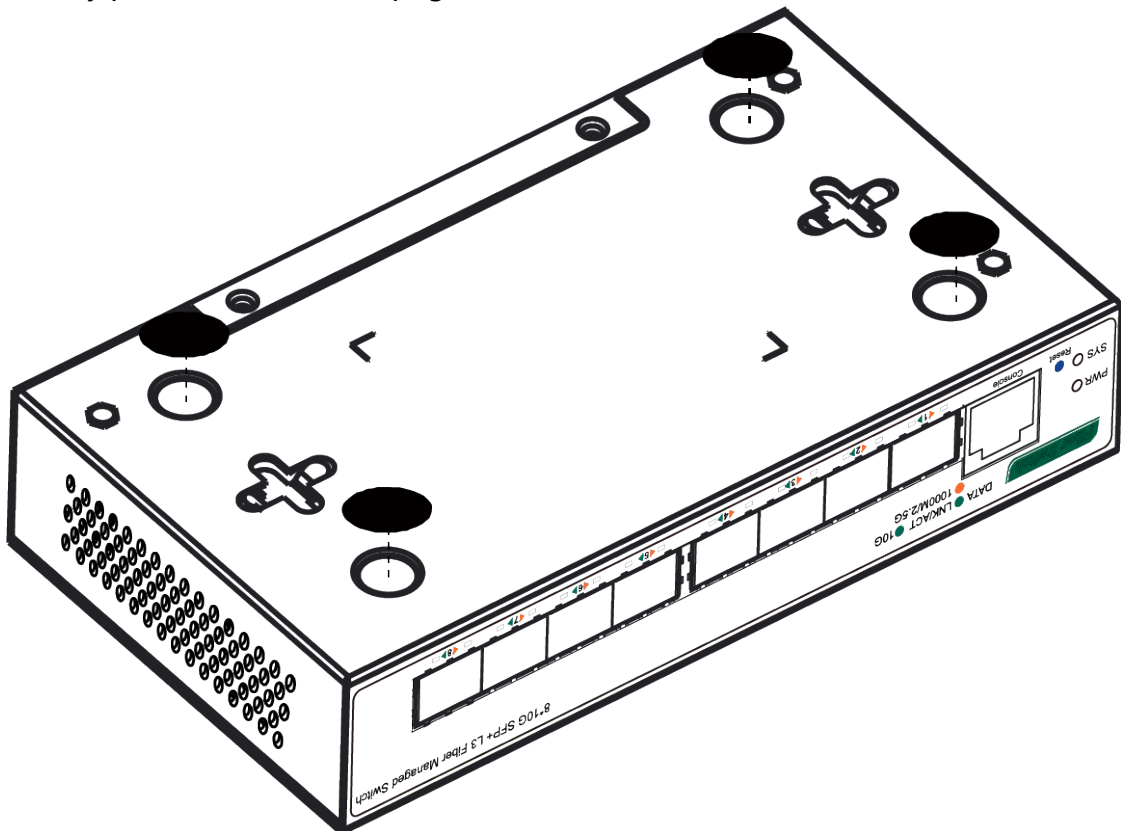➢ Carefully position the Switch upright on the workbench.

Figure 3‐1 Desktop Installation Diagram

Rack mounted

Install the Switch by following the steps:

➢ Fix two screws on the wall first, with the spacing between the screws matching the spacing between the two fixing holes of the Switch;

➢ Align the two fixing holes of the switch and hang the machine smoothly on the screws.
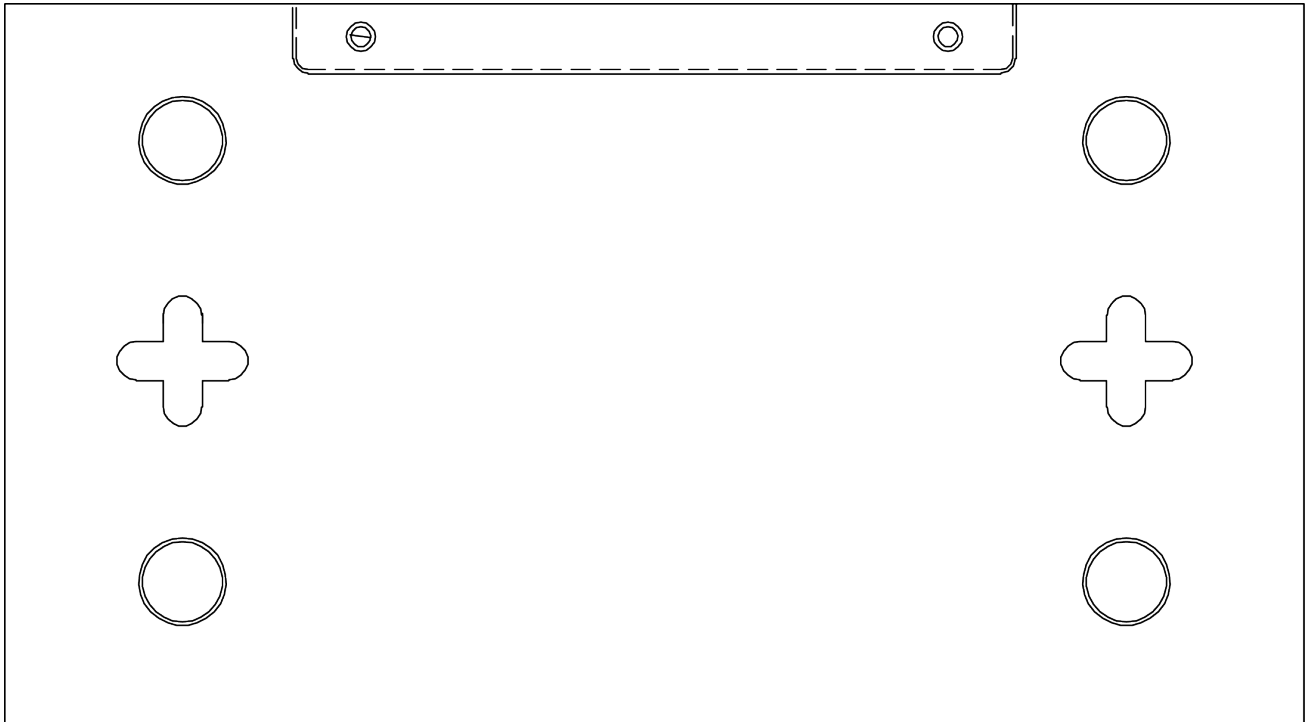

Figure 3-2 Diagram 1 of rack installation

3.4 Enabling the Switch

Connect the power cord, plug in, and turn on the power. After the Switch is started, the Switch automatically initializes. If all port indicators are on and off, the system is successfully reset. The power LED indicator is steady on.

Note: Before powering on the device, ensure that the voltage is correct; otherwise, the device may be damaged.

Appendix: Technical Specifications

Model	8*10G SFP+ L3 Fiber Managed Switch
Standard	IEEE802.3, IEEE802.3z, IEEE802.3ae, IEEE802.3x, IEEE802.1X, IEEE802.1Q, IEEE802.1p, IEEE802.1d, IEEE802.1w, IEEE802.3ad
Network Media(Cable)	1000BASE-FX: MMF, SMF 10GBASE-X: MMF, SMF 10GBASE-SR: OM1/OM2/OM3 or above MMF (2m~300m) 10GBASE-LR: IEC's B1.1 and B1.3 SMF (2m~10000m)
MAC Address Table	16K, Auto-learning, Auto-updating
Jumbo Frames	12KBytes
Packet Buffer	12Mbits
Transfer Mode	Store-and-Forward
Packet Forward Speed	119.04Mpps
Switching Capacity	160Gbps
Dimensions (L*W*H)	168*94*32mm,Black
Power Inputs	External adapter,DC,12V/2A
Operating Humidity:	0°C ~ 40°C
Storage Humidity	-40°C ~70°C
Operating Humidity:	10% ~ 90% non-condensing
Storage Humidity	5% ~ 90% non-condensing