INSTRUCTIONS

SKS8300-8X L3 managed switch

This handbook is applicable to SKS8300-8X L3 managed switch. If there is no special description in this document, SKS8300-8X is used as an example.

WARRANTY CARD

Product purchase date	
Serial number(SN)	
Dealer name	
User name	
Telephone	
Note:	

1.This product warranty card is the only proof of product warranty;
2.The product warranty regulations are subject to(Product warranty terms)
3.When purchasing this product ,the user must fill in the warranty card in detail,so as to check whether the serial number ,product trademark and model of the main body are consistent in the future maintenance.

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PRODUCT DESCRIPTION:

SKS8300-8X is our self-developed Layer 3 managed all-fiber switch with 8x10G SFP+ fiber optic module expansion slots 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 enterprises, neighborhoods, hotels, office networks and campus networks.

PACKAGE LIST

When using the switch for the first time,carefully open the packaging box,which should contain the following accessories:

- SKS8300-8X network switch × 1
- User manual × 1
- Certificate × 1
- Power cable× 1
- Console cable × 1

TECHNICAL SPECIFICATION

Product Name	SKS8300-8X L3 managed network switch
Standard	IEEE802.3、 IEEE802.3z、 IEEE802.3ae、 IEEE802.3x、 IEEE802.1x、 IEEE802.1Q、 IEEE802.1p、 IEEE802.1d、 IEEE802.1w、 IEEE802.3ad、
Network Media	1000BASE-T: Cat 5e, Class 6 and above unshielded twisted pair (≤100m) 1000BASE-X: MMF, SMF 10GBase-X: MMF, SMF 10GBASE-SR: OM1/OM2/OM3 or above MMF (2m~300m) 10GBASE-LR: IEC B1.1 and B1.3 SMF (2m~10000m)
Transmission Mode	Storage-forward
Mac Address Table	16K, automatic learning, automatic update
Switching Capacity	160Gbps
Jumbo Frame	12KByte
Packet Forwarding Rate	119.04Mpps
Dimensions (L * W * H)	168(L)x94(W)x32(H)mm
Power Input	DC12V 2A
Operating Temperature	0℃~4 0℃
Storage Temperature	-40℃~70℃
Working Humidity	10%~90% non-condensing
Storage Humidity	5%~95% non-condensing

Chapter 1
Product appearance description

1.1 front panel

The front panel consists of eight expansion slots for 10G SFP+ optical fiber modules, one console port, and related indicators, as shown in the following figure:

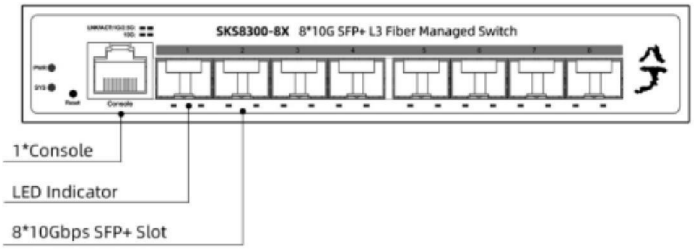

Figure 1-1 front panel of the switch

Port description:

- **10Gbps SFP+ port**

  The 10-Gigabit optical port is downward compatible with the 1000M/2.5Gbps transmission rate. The 10-Gigabit SFP+ 10-Gigabit optical module is required, and supports models such as SR/LR/LRM/ER/ZR, corresponding to indicators on ports 1-8.

- **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.

1.2LED indicator

The LED indicator of the switch is shown in the following table. Users can easily and quickly monitor the working and running status of the switch through the following indicators:

Indicator	Color	Description
PWR	Green	Off:The switch is powered off Steady on:The switch is powered on
10M 100M 1000M	Orange	Off:The network is disconnected Blinking slowly:The 100/1000MBPS network device is connected Quick blinking:Date is being transferred
2.5G 10G	Green	Off:The network is disconnected Blinking slowly:The 10G/2.5Gbps network device is connected Quick blinking:Date is being transferred

1.3 Rear panel

Figure 1-2 rear panel of the switch

- **DC power interface**

  This is a DC power socket where the negative plug of the power cord is connected to the switch and the positive plug is connected to the AC power supply.

- **Lightning protection power port**

  Located on the left side of the power port, please use wire grounding to prevent lightning strikes.

Chapter 2
Installation Guide

The purpose of this section is to help you properly install and securely use the switch.

2.1 Installation notes

To avoid equipment damage and personal injury caused by improper use,follow the following precautions:

- The switching equipment room should be dry,ventilated,and free from corrosive gases and strong electromagnetic interference.
- The humidity in the switching equipment room must be less than 90%.Install related devices when conditions permit
- The grounding of the switch shall follow the grounding requirements described in this manual and shall be individually and well grounded.
- The voltage of the switch shall be stable to prevent abnormal operation of the switch due to sudden change and fluctuation of the power supply voltage.
- Keep a proper distance between the switches and other devices,Do not stack switches with other devices.
- The connection cable between the switch and the distribution frame should be standardized and reasonable;The jumper of the distribution frame(box) should be concise and clear to prevent the phenomenon of parallel lines and double lines.
- In order to avoid the danger of electric shock,do not open the case without authorization;In case of failure,please contact professional repair.

⚠ Safety tips

Ensure that the PGND cable of the power socket is reliably grounded.
To ensure heat dissipation and ventilation space for the switch,do not place heavy objects on the switch.

2.2 Installation environment

Before installation,it is necessary to confirm that there is a suitable working environment,including power requirements,sufficient space.
Ensure proximity to other devices to be connected and that other devices are in place.
Please confirm the following installation requirements:

- Ensure that the workbench is stable and well grounded

- Check whether the cables required for installation are available and on the street. Check whether the cables are in place according to the proper configuration requirements.
- Environment requirements:Operating temperature is -10℃ to 50℃;Relative humidity is 10% to 90%.

2.3 Installation Mode

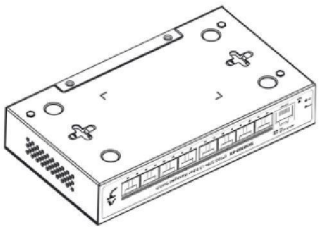

Figure 2-1 desktop installation diagram

DESKTOP INSTALLATION

1. Place the switch bottom side up on a large enough and stable desktop.
2. Remove the adhesive paper on the surface of the supplied feet and attach the feet to the grooves on the bottom of the switch chassis to prevent external vibration.
3. Carefully place the switch in an upright position on a workbench.

Wall-mounted

Follow these steps to install the switch:
1) Fix two screws on the wall first, and the spacing between the screws is consistent with the spacing between the two fixing holes of the switch;
2) Align the two fixing holes of the switch and hang the machine smoothly on the screws.

2.4 Starting a Switch

After the switch is powered on,the switch automatically initializes.If all port indicators are on and off,it indicates that the system is reset successfully and the power PWR indicator is always on.

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