



QSFPTEK S5300-16S8TS4X 16-Port Gigabit Ethernet L2 Plus Switch User Guide

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QSFPTEK S5300-16S8TS4X 16-Port Gigabit Ethernet L2 Plus Switch



Specifications

- **Model:** S5300-16S8TS4X
- **Type:** 16-Port Gigabit Ethernet L2+ Switch
- **Ports:** 16x 1G SFP, 8x 1G RJ45/SFP Combo, 4x 10G SFP+ Uplinks
- **Features:** Support Stacking

Hardware Overview

Front Panel Ports

The front panel includes different types of ports

- **Combo Port:** RJ45/SFP Combo port for versatile connections
- **SFP Port:** SFP ports for 1G connections
- **SFP+ Port:** SFP+ ports for high-speed 10G connections
- **CON Port:** RJ45 port for console access

Front Panel LEDs

LED Indicators provide status information

- SFP Status LED
- SFP+ Status LED
- SYS LED
- PWR LED

Installation Instructions

Back Panel

The back panel includes essential components

- **POWER:** Power switch for ON/OFF functionality
- **Grounding column:** Ensures proper grounding for safety
- **AC power supply:** Input voltage range from AC100-240V

Installation Requirements

Ensure safety and proper installation with these tips

- Use necessary tools like a screwdriver and static-proof wristband.
- Follow safety principles to prevent damage to humans or devices.
- Keep the environment clean and well-ventilated.

Mounting the Switch

Securely mount the switch in a well-ventilated area with proper heat dissipation.

Connecting the Power

Plug the AC power cord into the switch power port and connect to an AC power source.

Connecting Ports

- **RJ45 Ports:** Connect Ethernet cable between networking devices and switch RJ45 port.
- **SFP Ports:** Insert SFP module into port and connect fiber patch cable for data communication.
- **SFP+ Ports:** Insert SFP+ module into port and connect fiber patch cable for high-speed data communication.
- **Management Ports:** Connect appropriate cables for management purposes.

FAQ

- **Q: How do I know if the switch is powered on?**

A: Check the PWR LED on the front panel; if it's on, the device is powered.

- **Q: What should I do if the link on a port fails?**

A: If a link fails, check the corresponding LED status on the front panel for troubleshooting.

S5300-16S8TS4X Quick Start Guide

Quick Start Guide

V2.0

16-Port Gigabit Ethernet L2+ Switch

16x 1G SFP, with 8x 1G RJ45/SFP Combo, 4x 10G SFP+ Uplinks, Support Stacking

Introduction

The S5300-16S8TS4X is a managed gigabit access layer switch with 16x 1G SFP, 8x 1G RJ45/SFP combo, 4x 10G SFP+ uplink ports, supports stacking of up to 2 switches. It has built-in two intelligent fans, which can automatically adjust the fan speed to save on usage costs. The switch can be easily controlled and managed through both CLI and WEB interfaces, allowing for real-time monitoring and improved management efficiency. This makes the S5300-16S8TS4X an ideal choice for SMBs, enterprise networks, and campus networks. We appreciate your decision to select S5300-16S8TS4X. This manual is intended to help you become acquainted with the switch design and provide instructions for implementing the switches into your network.



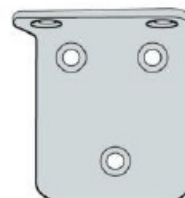
Accessories



Power Cord x1



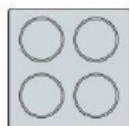
Console Cable x1



Mounting Bracket x2



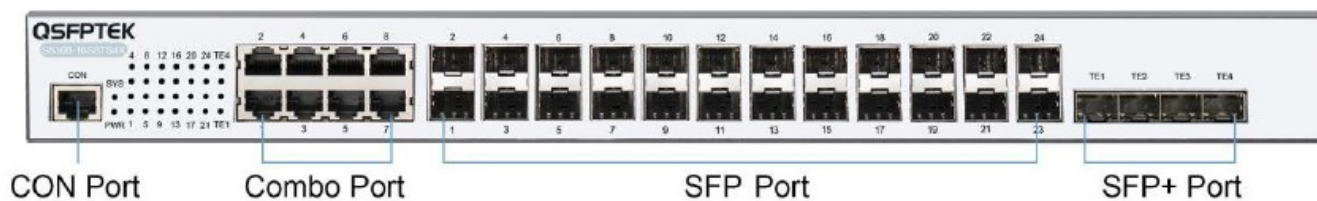
M3 Screw x8



Rubber Pad x4

Hardware Overview

Front Panel Ports



Ports	Description
Combo Port	RJ45/SFP Combo port
SFP Port	SFP ports for 1G connection
SFP+ Port	SFP+ ports for 10G connection
CON Port	A baud rate of 9600bps, RJ45 port

Front Panel LEDs



LEDS	Status	Description	
SFP	/	On	The link on the port is normal.
		Off	The link on the port is failed.
SFP+	/	On	The link on the port is normal.
		Off	The link on the port is failed.
SYS LED	/	/	If the SYS indicator flickers, the system works normally.
PWR LED	/	/	If the PWR indicator is always on, the device is powered on.

Back Panel



Abbrev	Name	Description
/	Grounding column	The grounding must be fine
/	Power switch	ON means the power is switched on, while OFF means the power is cut off
POWER	AC power supply	Input voltage AC100-240V

Installation Requirements

Tools Preparation

- Screwdriver
- Static-proof wristband
- Bolt
- Ethernet cable
- Other Ethernet terminal devices
- Control terminal

Safety Principles

Keep dustless and clean during or after the installation.

- Put the cover in a safe place.
- Put tools in the right place where they are not easily falling down.

- Put on relatively tight clothes, fasten the tie or scarf well and roll up the sleeve, avoiding stumbling the machine box.
- Put on protective glasses if the environment may cause damage to your eyes.
- Avoid incorrect operations that may cause damage to humans or devices.

Site Environment

- Make sure that the workshop is well-ventilated, the heat of electrical devices is well-discharged
- Avoid damaging devices by following the electrostatic discharge prevention procedure.
- S5300-16S8TS4X Hardware Installation Manual
- Put the machine box in a place where cool air can blow off the heat inside the machine box.
- Make sure the machine box is sealed.

Mounting the Switch

Connecting the Power



- Plug the AC power cord to the switch power port on the back rear.
- Connect the other end of the power cord to an AC power source equipment.

Connecting the RJ45 Ports



- Connect one end of the Ethernet cable to the RJ45 port on networking equipment, such as PC, printer, server, storage, etc.
- Connect the other end of the Ethernet cable to the switch RJ45 port.

Connecting the SFP Port



- Insert the SFP module into the SFP port.

- Plug a fiber patch cable into the SFP transceiver.
- Connect the other end of the fiber to the device that you want to realize data communication.

Connecting the SFP+ Port



- Insert the SFP+ module into the SFP+ port.
- Plug a fiber patch cable into the SFP+ transceiver.
- Connect the other end of the fiber to the device that you want to realize data communication.

Connecting the Management Ports

Connecting the Console Port

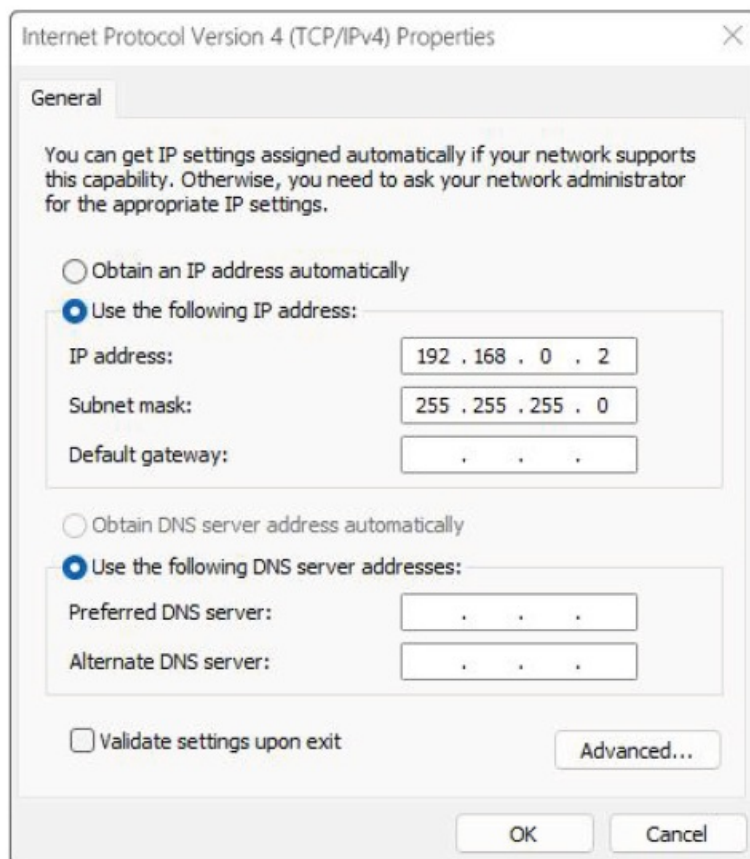


- Prepare a console cable.
- Insert the RJ45 connector of the console cable into the console port on the switch.
- Connect the DB9 female connector on the other end of the console cable to the serial port on the computer host.

Configuring the Switch

Configuring the Switch Using the Web-based Interface

- **Step 1:** Connect your computer to the switch using an Ethernet cable and open a web browser.



- **Step 2:** Set the IP address of the computer to 192.168.0.x (where “x” is any number from 2 to 254) and the subnet mask to 255.255.255.0.
- **Step 3:** Open a web browser and type <http://192.168.0.2> in the address bar. Enter the default username and password (admin/admin).
- **Step 4:** Click sign-in to access the web-based configuration page.

Configuring the Switch Using the Console Port

- **Step 1:** Use the console cable to directly connect the switch console port to your computer.
- **Step 2:** Launch the terminal simulation software such as Hyper Terminal on the computer.
- **Step 3:** Configure the parameters of the terminal emulation software as follows: 9600 bits per second, 8 data bits, no parity, 1 stop bit, and no flow control.

Session settings

SSH Telnet Rsh Xdmcp RDP VNC FTP SFTP **Serial** File Shell Browser Mosh Aws S3 WSL

Basic Serial settings

Serial port * COM3 (USB Serial Port (COM3)) Speed (bps) * 9600

Advanced Serial settings Terminal settings Bookmark settings

Serial engine: PuTTY (allows manual COM port setting)

Data bits 8

Stop bits 1

Parity None

Flow control Xon/Xoff

Reset defaults

Execute macro at session start: <none>

If you need to transfer files (e.g. router configuration file), you can use MobaXterm embedded TFTP server

"Servers" window --> TFTP server

OK Cancel

- **Step 4:** Enter the default username and password (admin/admin).

Troubleshooting

Hardware Fault Analysis

1. **Power and cooling systems**—power and fan
2. **Port, cable and connection**—ports on the front panel of the switch and the cables connecting these ports

Faults Relative to Power and Cooling System

Do the following checkups to help remove the fault

1. When the power on-off is at the “ON” location, check whether the fan works normally. If the fan does not work well, check the fan.
2. If the switch is too hot, check whether the air outlet and air inlet are clean and then do relative operations in section 2.3 “Requirements for Common Locations”.
3. If the switch cannot be started and the PWR indicator is off, check the power.

Faults Relative to Port, Cable and Connection

Do the following checkups to help remove the fault

1. If the port of the switch cannot be linked, check whether the cable is correctly connected and whether the peer connection is normal.
2. If the power on-off is at the “ON” location, check the power source and the power cable.
3. If the CLI port does not work after the system is started up, check whether the CLI port is set to a baud rate of

9600 bps, eight data bits, no sum check bit, one stop bit and no traffic control.

Support and Other Resources

- Contact us : <https://www.qsfptek.com/company/contact-us.html>
- Customer Success : <https://www.qsfptek.com/resources/customer-success-stories>
- Email: support@qsfptek.com

Product Warranty

S5300 series switches are backed by a 5-year limited warranty supported by QSFPTTEK. You are eligible to apply for a return within 14 days and exchange within 90 days of receiving them.

For more details about applying qualifications, please live chat or email sales@qsfptek.com for support




5 Year Warranty



14-day Return Window

Documents / Resources

	<p>QSFPTTEK S5300-16S8TS4X 16-Port Gigabit Ethernet L2 Plus Switch [pdf] User Guide S5300-16S8TS4X, S5300-16S8TS4X 16-Port Gigabit Ethernet L2 Plus Switch, 16-Port Gigabit Ethernet L2 Plus Switch, Gigabit Ethernet L2 Plus Switch, Ethernet L2 Plus Switch, L2 Plus Switch, Switch</p>
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References

- [QSFPTTEK - Compatible Optical Transceivers Factory Outlet](#)
- [Title](#)
- [Customer Success Stories - QSFPTTEK](#)
- [User Manual](#)

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