QSFPTEK S5300-8TE4X-P 8 Port Ethernet L2 Multi Gigabit PoE Switch User Guide

Contents

QSFPTEK S5300-8TE4X-P 8 Port Ethernet L2 Multi Gigabit PoE Switch

Product Information

Specifications

- **Model:** S5300-8TE4X-P
- **Version:** V2.0
- **Type:** 8-Port Ethernet L2 Multi-Gigabit PoE Switch
- **Ports:**
  - 8x 100/1000M/2.5GBASE-T PoE++ Ports
  - 4x 10G SFP+ Uplinks
- Supports Stacking
- **Website:** www.qsfptek.com

Hardware Overview

Front Panel Ports

- **RJ45 Ports:** 100M/1000M/2.5G-T ports for Ethernet connection
- **SFP+ Ports:** ports for 1/10G connection
- **RJ45 Console Port:** for serial management

Front Panel LEDs

Description	LEDs	Status
100M/1000M/2.5G-T ports for Ethernet connection	RJ45	Green
Ports TE1-TE4 for 10G connection	SFP+	Blinking
System Indicator	SYS LED	On/Blinking
Power Indicator	PWR LED	On/Blinking

Back Panel

- **Abbrev/POWER:** Grounding column

- **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 the installation area dustless and clean.
- Put the cover in a safe place.
- Place tools securely to prevent them from falling down.
- Wear relatively tight clothes, fasten the tie or scarf well, and roll up sleeves to avoid stumbling on the machine box.
- Wear protective glasses if the environment may cause damage to your eyes.
- Avoid incorrect operations that may cause damage to humans or devices.

Site Environment

- Ensure the workshop is well-ventilated for proper heat dissipation.
- Follow the electrostatic discharge prevention procedure to avoid damaging devices.
- Place the machine box in a location with sufficient cool air circulation.
- Ensure the machine box is properly sealed.

Product Usage Instructions

Mounting the Switch

Place the switch in a suitable location following the installation requirements.

Connecting the Power

1. Plug the AC power cord into the switch power port on the back panel.
2. Connect the other end of the power cord to an AC power source equipment.

Connecting the RJ45 Ports

1. Connect one end of an Ethernet cable to the RJ45 port on your networking equipment (e.g., PC, printer, server, storage, etc.).
2. Connect the other end of the Ethernet cable to the corresponding RJ45 port on the switch.

Connecting the SFP+ Port

1. Insert the SFP+ module into the SFP+ port on the switch.
2. Plug a fiber patch cable into the SFP+ transceiver.
3. Connect the other end of the fiber patch cable to the device with which you want to establish data communication.

Connecting the Management Ports

Connecting the Console Port

1. Prepare a console cable.
2. Insert the RJ45 connector of the console cable into the console port on the switch.
3. Connect the D89 female connector on the other end of the console cable to the serial port on your computer host.

Configuring the Switch

Configuring the Switch Using the Web-based Interface

1. Connect your computer to the switch using an Ethernet cable.
2. Open a web browser.
3. Set the IP address of your computer to 192.168.0.x (where x is any number from 2 to 254).
4. Set the subnet mask to 255.255.255.0.

FAQ

- **Q: Where can I find more information about this product?**
  A: For more information, please visit our website at **www.qsfptek.com**.
- **Q: What should I do if the SYS indicator flickers?**
  A: If the SYS indicator flickers, it means that the system is working normally.
- **Q: What does it mean if the PWR indicator is always on?**
  A: If the PWR indicator is always on, it indicates that the device is powered on.

8-Port Ethernet L2 Multi-Gigabit PoE Switch
8x 100/1000M/2.5GBASE-T PoE++ Ports, with 4x 10G SFP+ Uplinks, Support Stacking

Introduction

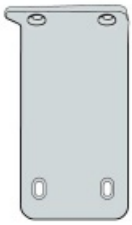
The S5300-8TE4X-P is a 2.5G access switch with 8x 100/1000M/2.5GBASE-T RJ45 ports and 4x 10G SFP+ uplink ports, supporting Stacking. It can increase the 1G speed by 2.5 times relying on existing wiring (cat5e or cat6). The 8x RJ45 ports support IEEE802.3af/at/bt (up to 90W by a single port) and can be used in IP phones, wireless access points, or other end network devices standards-compliant PoE, PoE+ and PoE++. This makes the S5300-8TE4X-P layer 2 managed switch an ideal choice for converged Wi-Fi 6 and multi-rate wired access in SMBs, branches and campus networks. The 2.5G switch offers 2.5GBASE-T interfaces to ensure a more stable and reliable network architecture for enterprises.

We appreciate your decision to select S5300-8TE4X-P. This manual is intended to help you become acquainted with the switch design and provide instructions for implementing the switches into your network.

Accessories

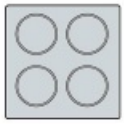
Power Cord x1

Console Cable x1



Mounting Bracket x2

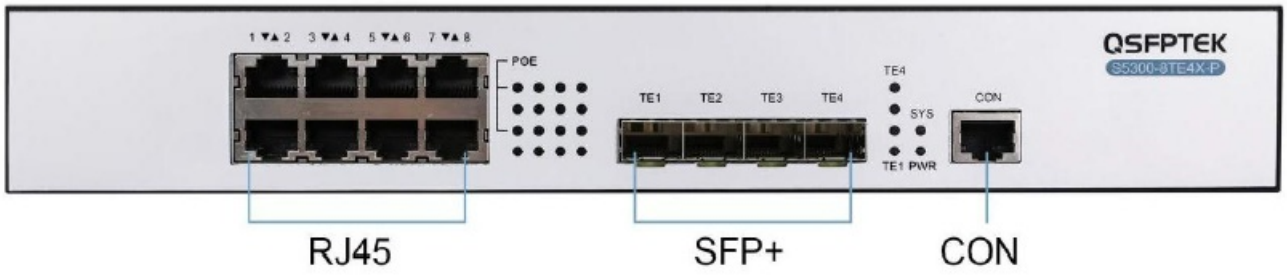
Screw x8



Rubber Pad x4

Hardware Overview

Front Panel Ports



Ports	Description
RJ45	100M/1000M/2.5G-T ports for Ethernet connection
SFP+	SFP+ ports for 1/10G connection
CON	An RJ45 console port for serial management

Front Panel LEDs

LEDS	Status	Description	
RJ45	Green	On	2.5G port link.
		Blinking	2.5G packets receiving or transmitting.
SFP+ (Port TE1-TE4)	Green	On	10G port link.
		Blinking	10G packets receiving or transmitting.
SYS LED	/	/	If the SYS indicator flickers, the system works normally.
PWR LED	/	/	If the PWR indicator is always on, the de vice is powered on.

Back Panel

Abbrev	Name	Description
/	Grounding column	The grounding must be fine
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.
- S5300-8TE4X-P 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 Management Ports

Connecting the Console Port

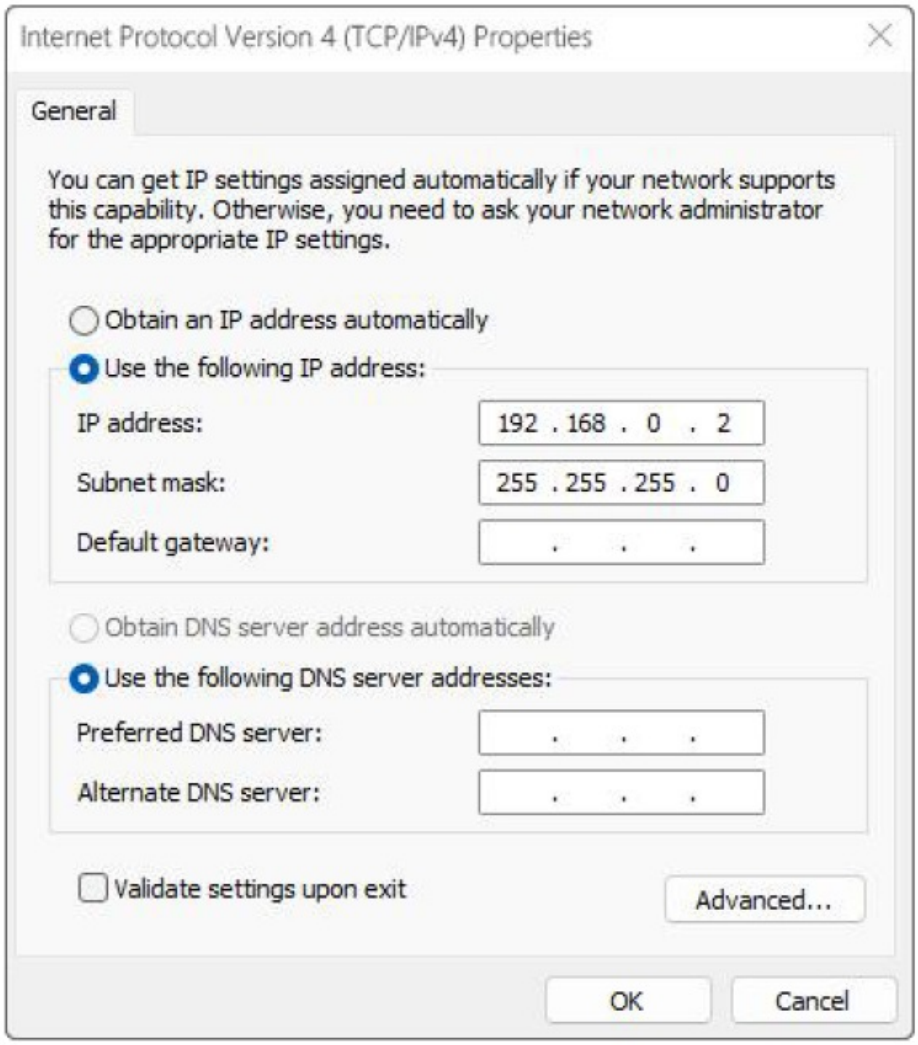
- Prepare a console cable.
- Insert the RJ45 connector of the console cable into the console port on the switch.

- Connect the D89 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

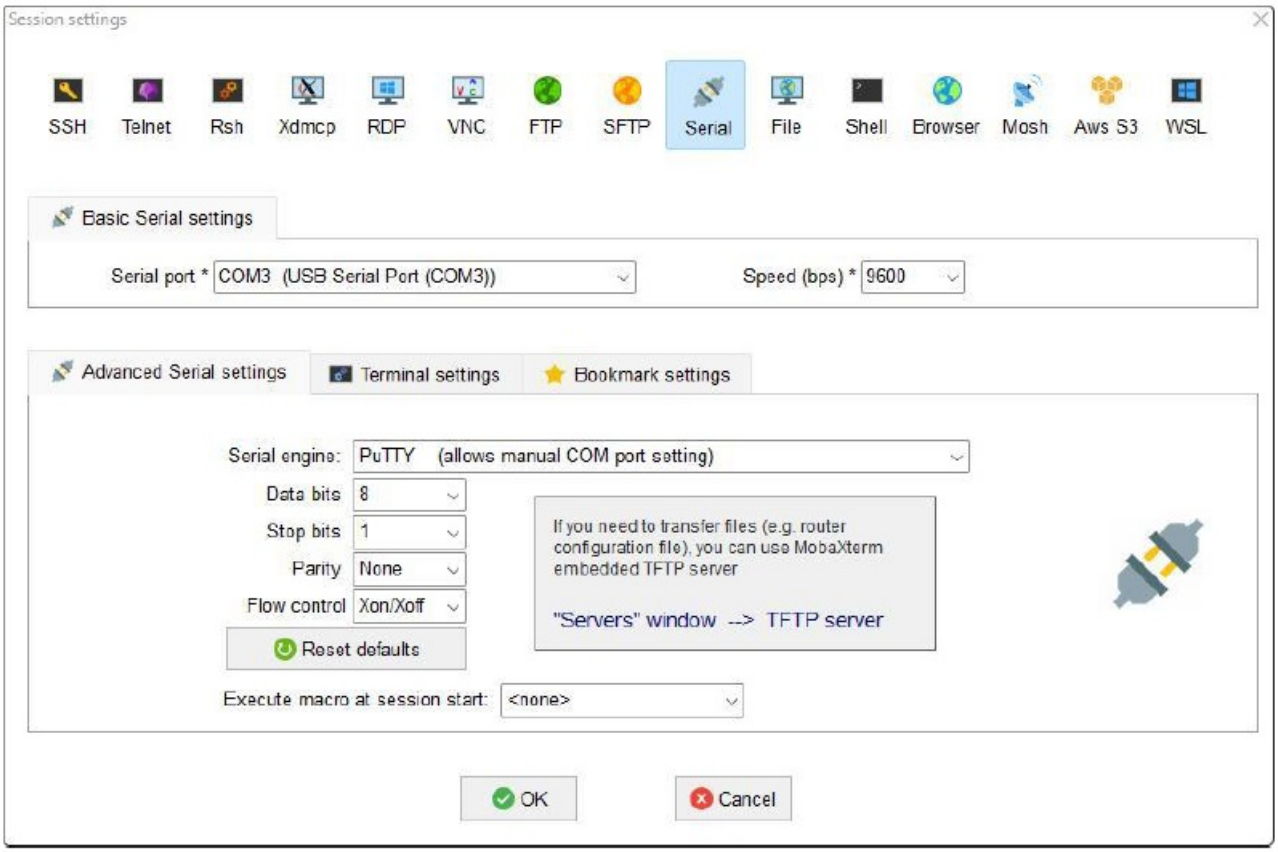
- **Step 1:** Connect your computer to the switch using an Ethernet cable and open a web browser.



- **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.



- **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 QSFPTEK. You are eligible to apply for a return within 14 days and exchange it within 90 days of receiving it.
- For more details about applying qualifications, please live chat or email sales@qsfptek.com for support.

5 Year Warranty

14-day Return Window

www.qsfptek.com.

Documents / Resources

	QSFPTEK S5300-8TE4X-P 8 Port Ethernet L2 Multi Gigabit PoE Switch [pdf] User Guide S5300-8TE4X-P, S5300-8TE4X-P 8 Port Ethernet L2 Multi Gigabit PoE Switch, Port Ethernet L 2 Multi Gigabit PoE Switch, L2 Multi Gigabit PoE Switch, Gigabit PoE Switch, PoE Switch

References

- QSFPTEK - Compatible Optical Transceivers Factory Outlet
- QSFPTEK - Compatible Optical Transceivers Factory Outlet
- Title
- Customer Success Stories - QSFPTEK
- User Manual