FS S3400-48T6SP Ethernet L2 Plus Poe Plus Switch User Guide

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FS S3400-48T6SP Ethernet L2 Plus Poe Plus Switch

The S3400-48T6SP is a high-performance Ethernet L2+ PoE+ switch designed for use in large networks. It comes with accessories such as a power cord, console cable, grounding cable, mounting brackets, screws, rubber pads, and Ethernet cable.

Hardware Overview

The front panel features RJ45 and SFP+ ports for Ethernet connections and an RJ45 console port for serial management. The front panel LEDs indicate the status of the switch and port links. The front panel button is used to switch PoE indication. The back panel has a power supply input, power ON/OFF switch, a grounding point, and an AC power supply.

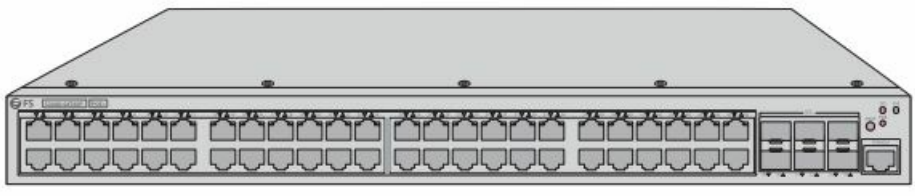
Installation Requirements

Before installation, ensure you have a screwdriver, static-proof wristband, Ethernet terminal devices, and a standard-sized rack with a minimum of 1U height available. Also, make sure the installation site is level, stable, free from dust and water leaks, and well-earthed.

Mounting the Switch: The switch can be desk-mounted by attaching four rubber pads to its bottom and placing it on a smooth and safe desk. It can also be rack-mounted by securing the mounting brackets to the sides of the switch and attaching it to the rack using screws.
Grounding the Switch: Connect one end of the grounding cable to a proper earth ground like the rack and secure the grounding lug to the grounding point on the switch back panel with washers and screws.
Connecting the RJ45 Ports: To connect a network device to the switch, connect an Ethernet cable to the RJ45 port of the device and the other end to the RJ45 port of the switch.

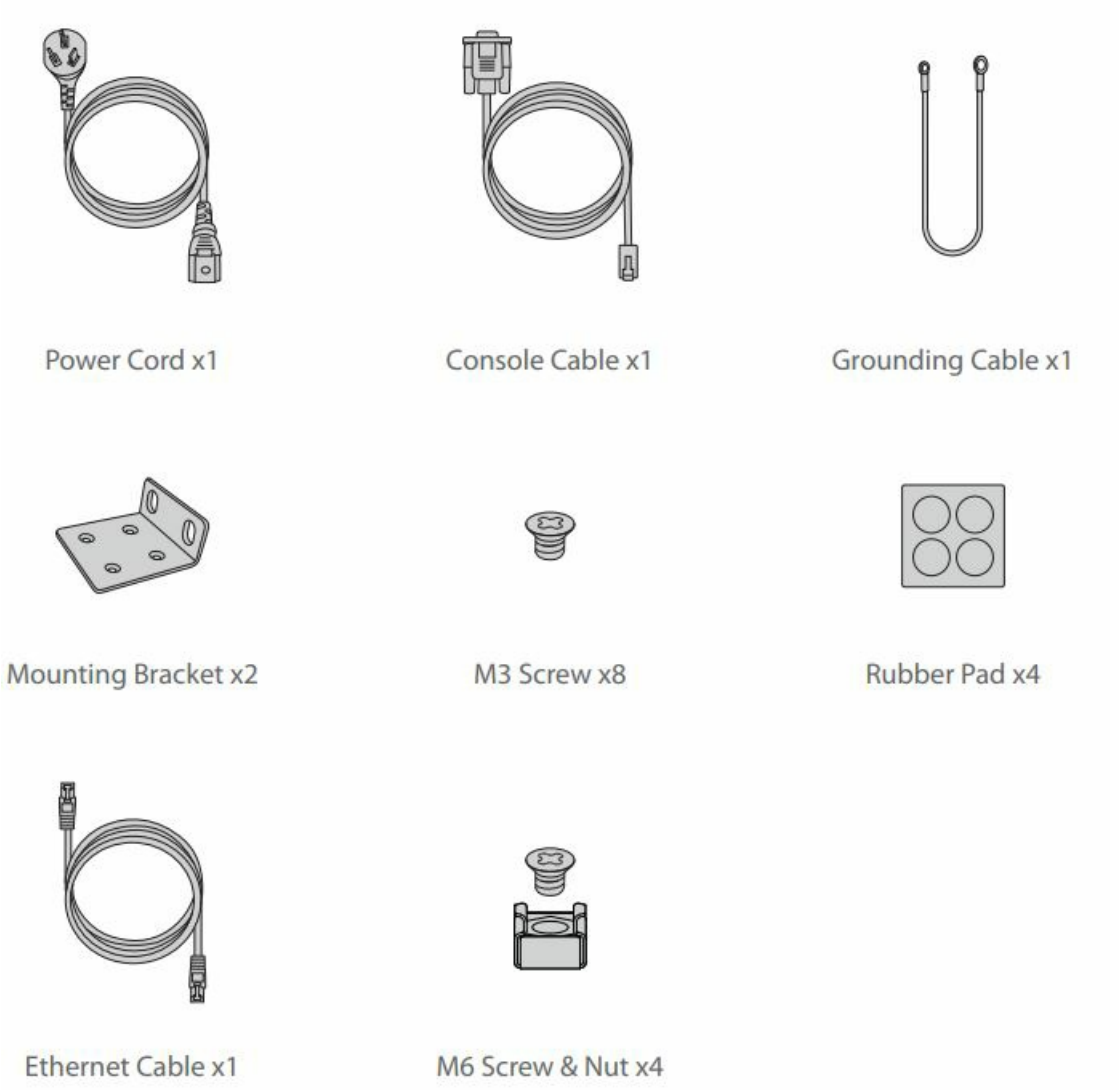
Introduction

Thank you for choosing the S3400-48T6SP Ethernet L2+ PoE+ Switch. This guide is designed to familiarize you with the layout of the switch and describes how to deploy it in your network.



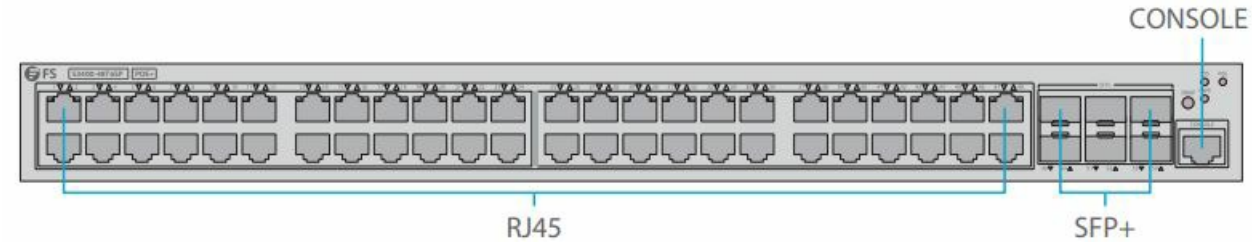
S3400-48T6SP

Accessories



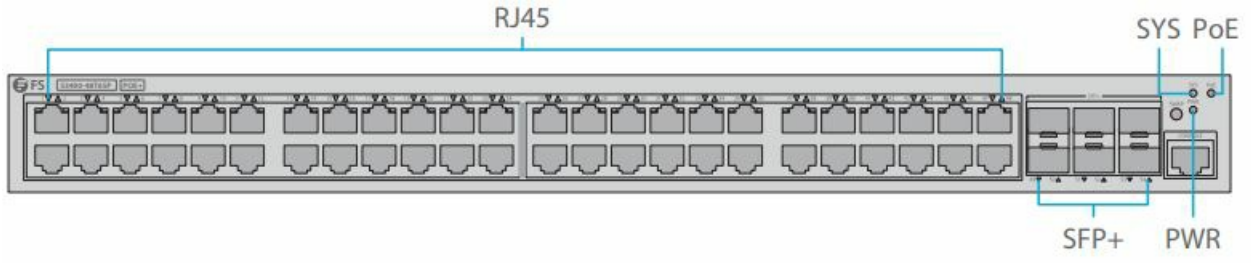
Hardware Overview

Front Panel Ports



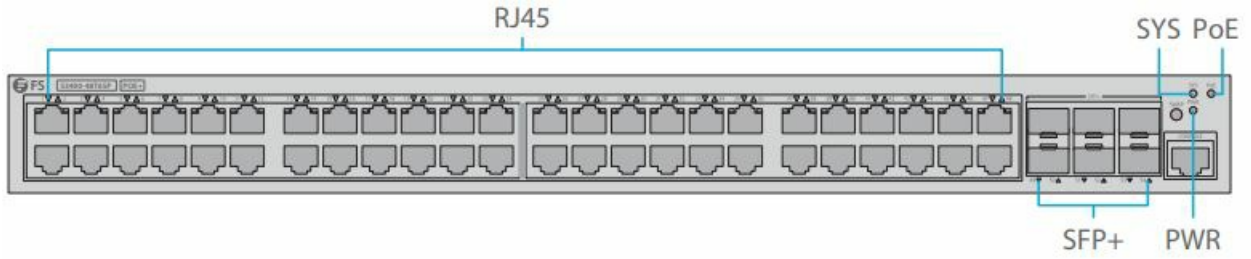
Ports	Description
RJ45	10/100/1000BASE-T ports for Ethernet connection
SFP+	SFP+ ports for 10G connection
CONSOLE	An RJ45 console port for serial management

Front Panel LEDs



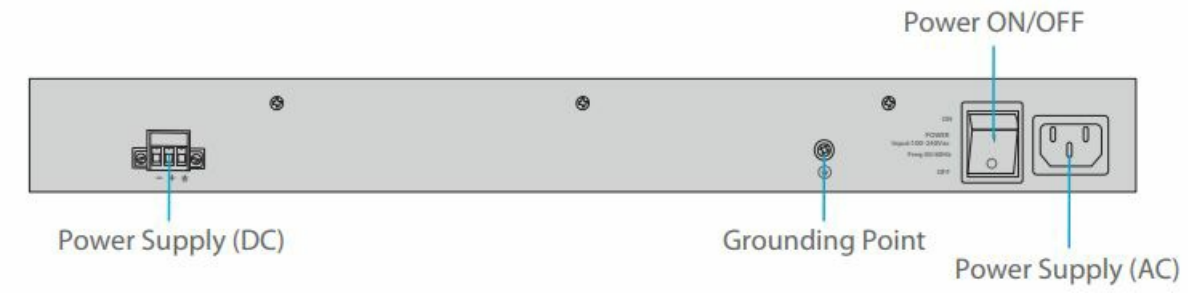
LEDs	State	Description
PWR	On	The switch is powered on.
	Off	The switch is not powered on or the indicator is faulty.
SYS	On	The system is being started up.
	Blinking	The system works well.
	Off	The switch is not working or the indicator is faulty.
RJ45	On	The link on the port is normal.
	Off	The link on the port has failed.
SFP+	On	The link on the port is normal.
	Off	The link on the port has failed.
PoE	On	Connected PD device, working properly.
	Off	The indicator status of the Ethernet port is Link, not PoE power supply.

Front Panel Button



Button	Description
SWAP	Swap function, used to switch PoE indication.

Back Panel



Installation Requirements

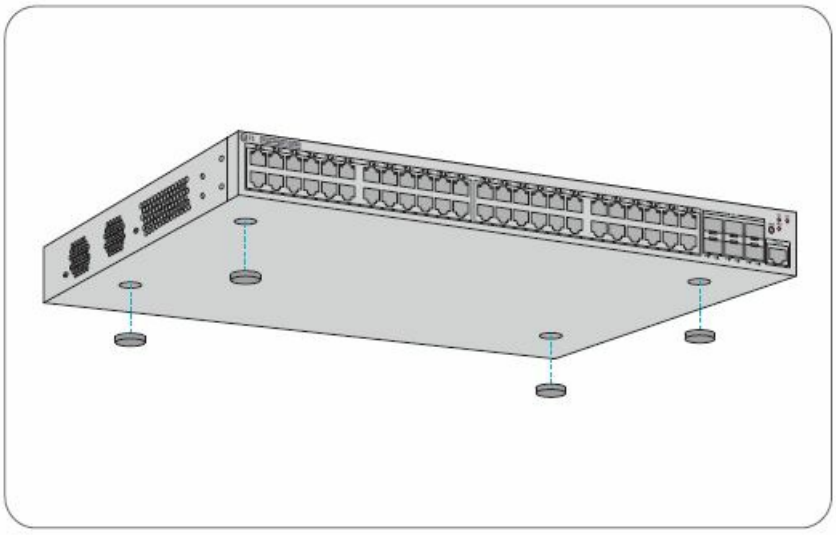
Screwdriver, static-proof wristband, and other Ethernet terminal devices.

- Standard-sized, 19″ wide rack with a minimum of 1U height available.
- Category 5e or higher RJ45 Ethernet cables and fiber optical cables for connecting network devices.
- Before the installation, make sure that you have the following:

  Site Environment:
- Make sure that the temperature of the installation site is maintained at 0°C~45°C.
- The installation site must be well-ventilated. Ensure that there is adequate airflow around the switch.
- The switch should be installed at least 1U (44.45mm) away from devices to its sides.
- Be sure that the switch is level and stable to avoid any hazardous conditions.
- Do not install the equipment in a dusty environment.
- The installation site must be free from leaking or dripping water, heavy dew, and humidity.
- Ensure the rack and working platforms are well-earthed.

Mounting the switch

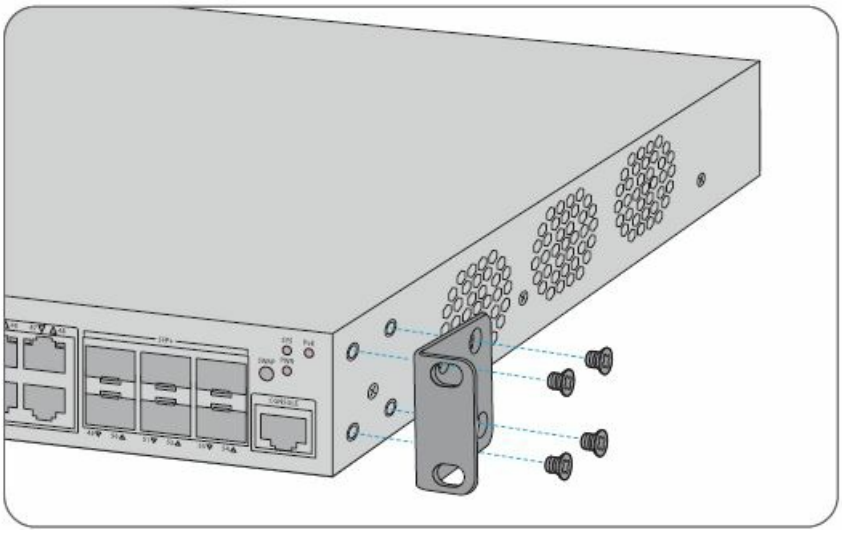
Desk Mounting



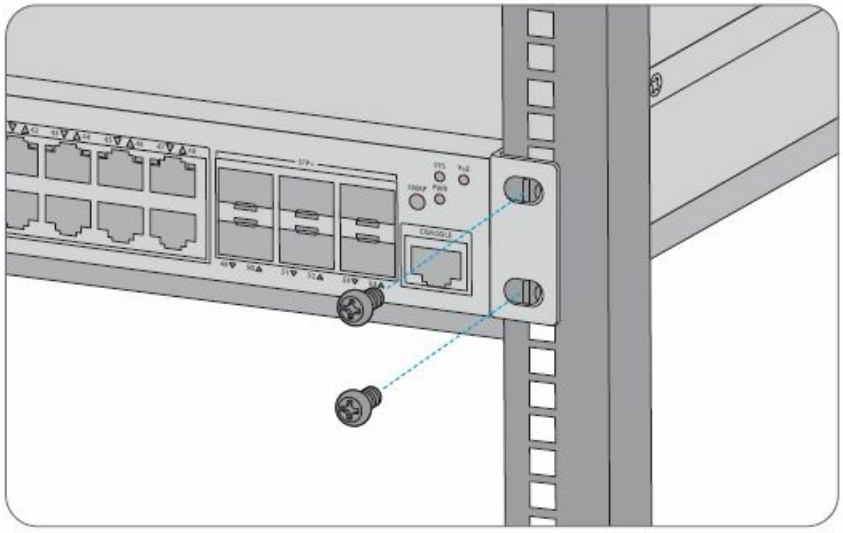
1. Attach the four rubber pads to the four corners on the switch bottom.
2. Place the switch on the smooth and safe desk.

NOTE: Do not put things weighing 4.5 kg or over 4.5 kg on the top of the switch.

Rack Mounting



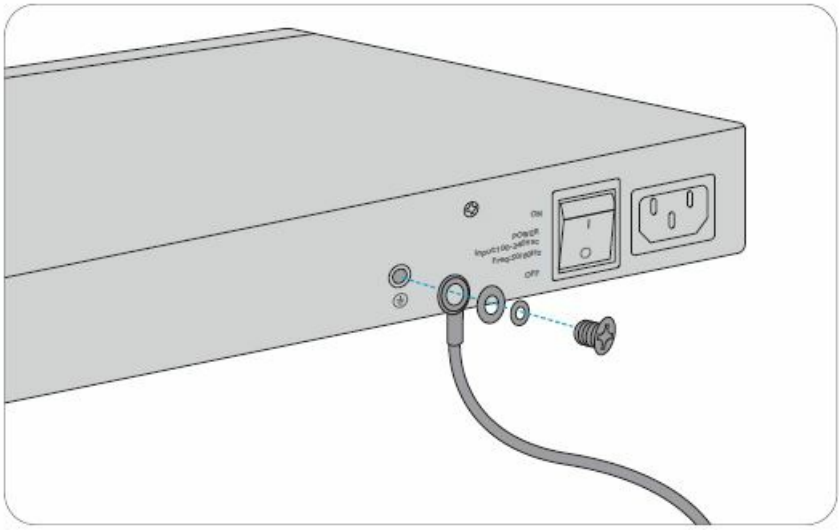
1. Secure the mounting brackets to the two sides of the switch with the supplied screws.



2. Attach the switch to the rack using the screws.

NOTE: When you fix the brackets, the front panel of the switch faces forward.

Grounding the Switch

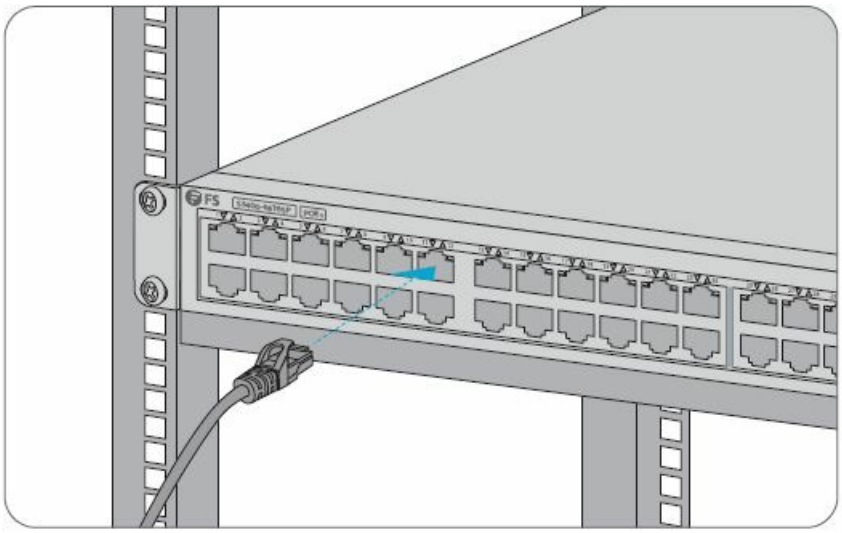


1. Connect one end of the grounding cable to a proper earth ground, such as the rack in which the switch is mounted.

2. Secure the grounding lug to the grounding point on the switch back panel with the washers and screws.

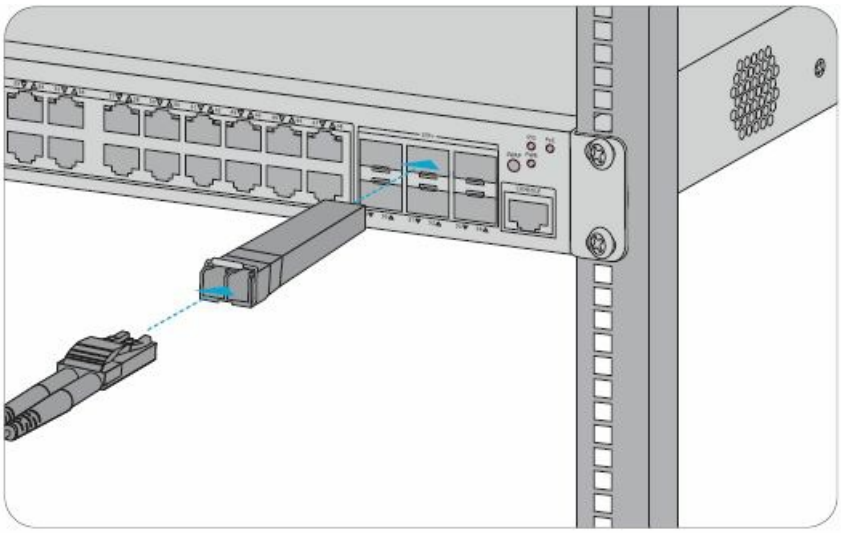
CAUTION: The earth connection must not be removed unless all supply connections have been disconnected.

Connecting the RJ45 Ports



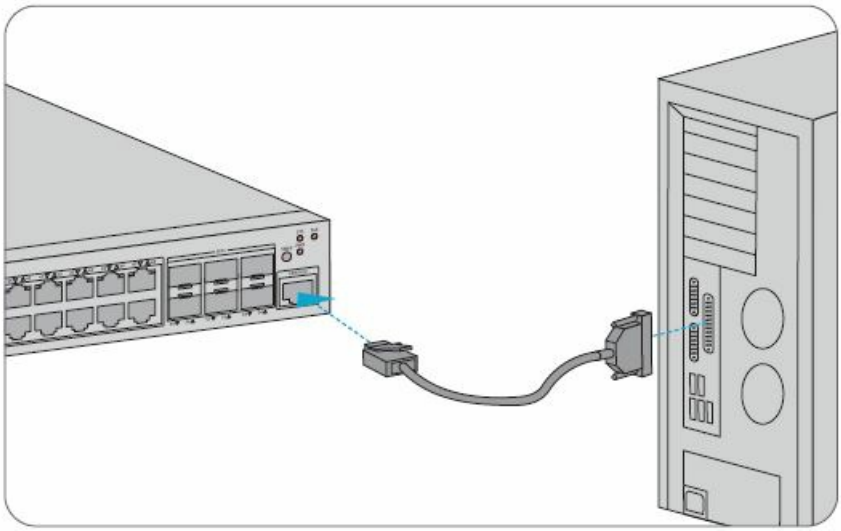
1. Connect an Ethernet cable to the RJ45 port of a network device.
2. Connect the other end of the Ethernet cable to the RJ45 port of the switch.

Connecting the SFP+ Ports



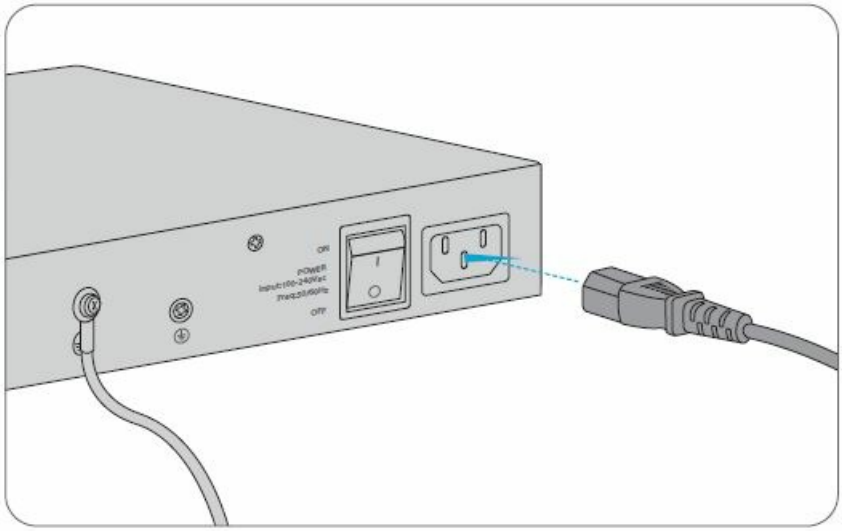
1. Plug the compatible SFP+ transceiver into the SFP+ port.
2. Connect a fiber optic cable to the fiber transceiver. Then connect the other end of the cable to another fiber device.

Connecting the Console Port



1. Insert the RJ45 connector into the RJ45 console port on the front panel of the switch.
2. Connect the DB9 female connector of the console cable to the serial port on the computer.

Connecting the Power



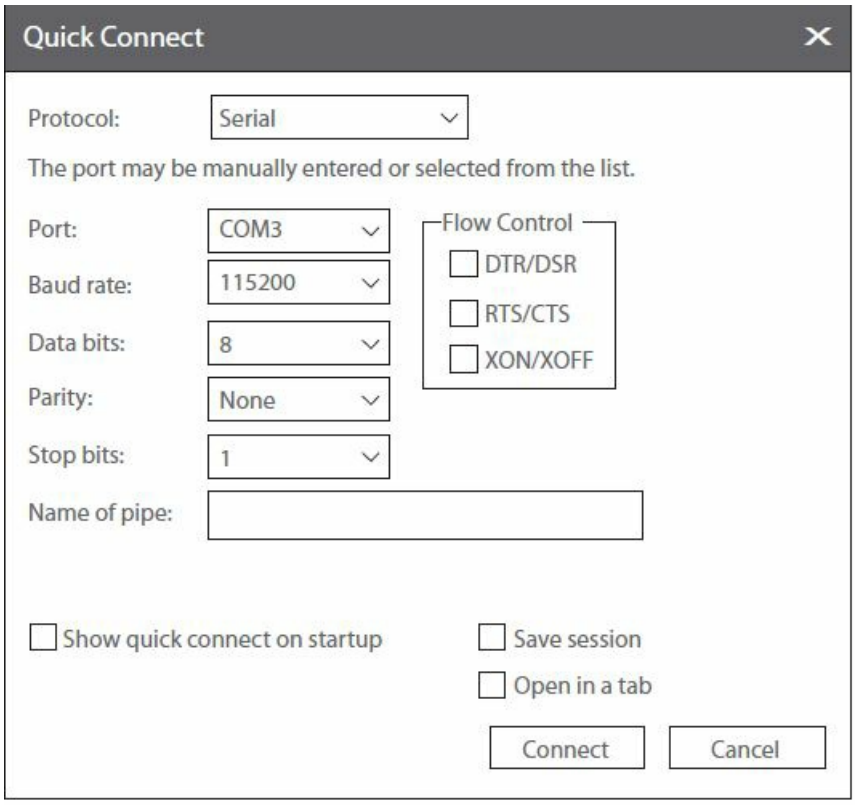
1. Plug the AC power cord into the power port on the back of the switch.
2. Connect the other end of the power cord to an AC power source.

WARNING: Do not install power cables while the power is on.

Configuring the Switch

Configuring the Switch Using the Console Port

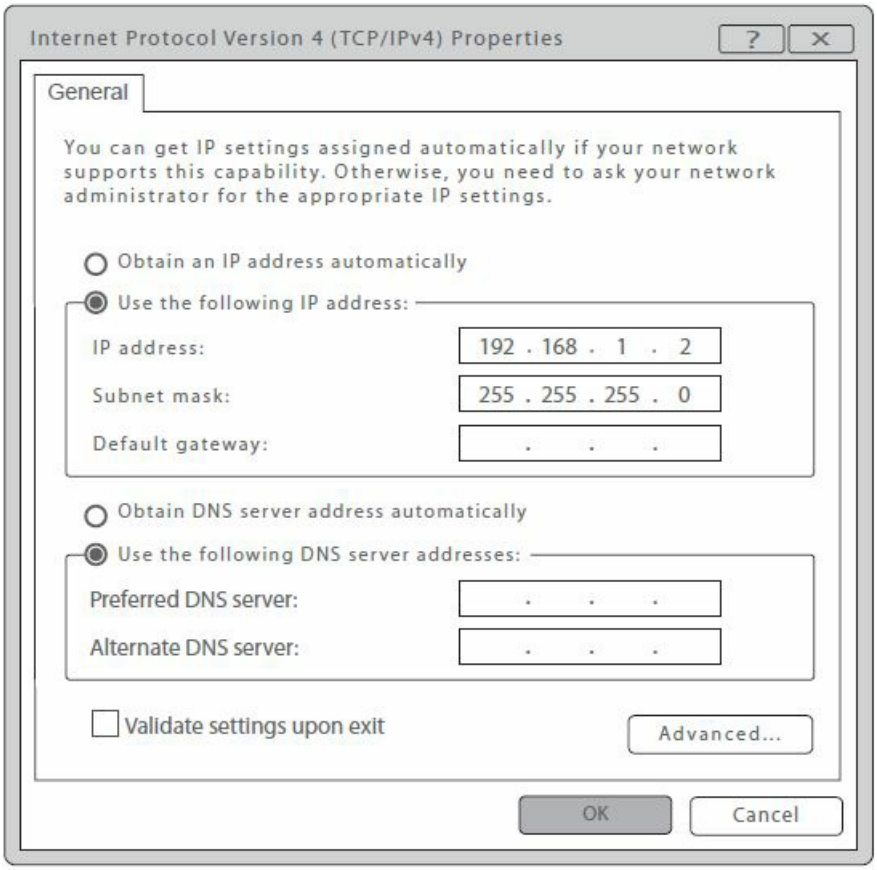
- **Step 1:** Connect a computer to the console port of the switch with the console cable.
- **Step 2:** Start the terminal simulation software, such as HyperTerminal on the computer.
- **Step 3:** Set the parameters of the HyperTerminal: Baud rate to 115200, Data bits to 8, Parity to None, and Stop bits to 1.



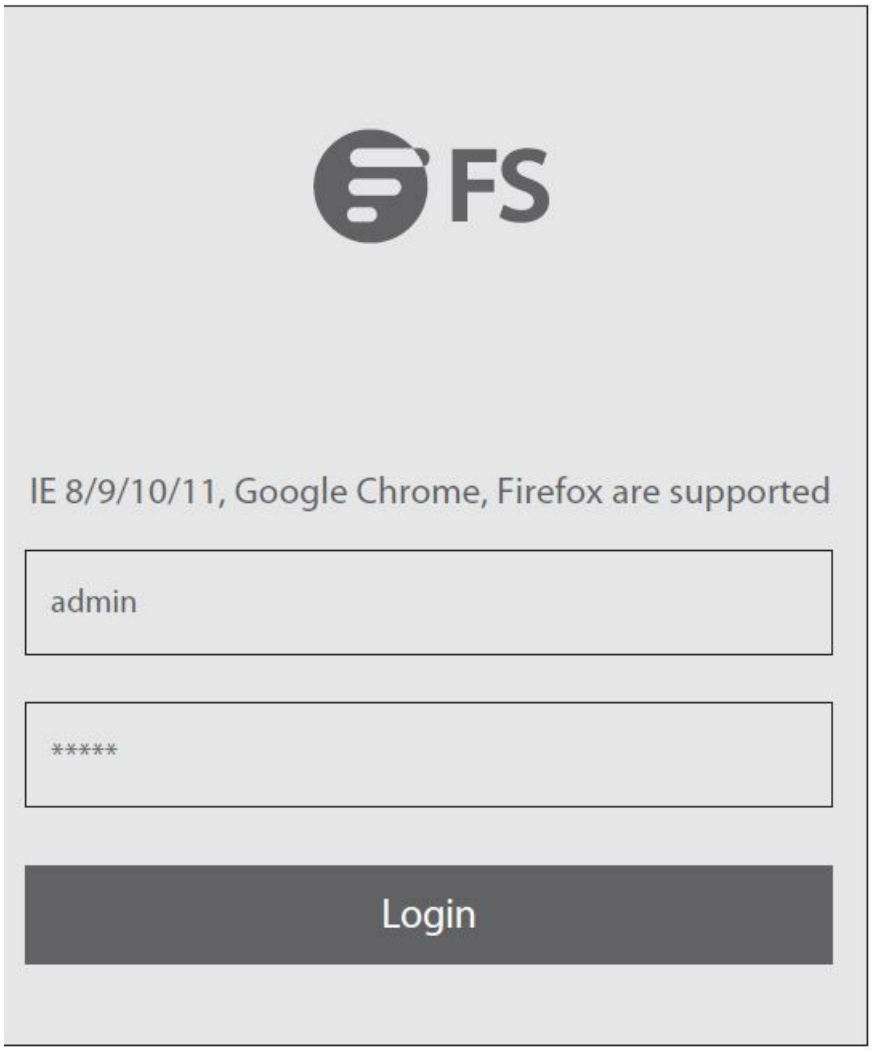
- **Step 4:** After setting the parameters, click Connect to enter.

Configuring the Switch Using the Web-Based Interface

- **Step 1:** Connect a computer to the Ethernet port of the switch using the network cable.
- **Step 2:** Set the IP address of the computer to 192.168.1.x (“x” is any number from 2 to 254).



- **Step 3:** Open a browser, type http://192.168.1.1 and enter the default username and password, admin/admin.



- **Step 4:** Click Login to display the web-based configuration page.

Troubleshooting

Faults Related to Power and Cooling Systems

- When the power switch is at the “ON” location, check the fan’s working status and its condition.
- If the switch is too hot, check whether the air outlet and air inlet are clean.
- If the switch cannot be started and the PWR indicator is off, check the power.

Faults Related to Port, Cable, and Connection

- If the port of the switch cannot be linked, check whether the cable is correctly connected and whether the peer connection is normal.
- If the power switch is at the “ON” location, check the power source and the power cable.
- If the console port does not work after the system is started up, check whether the console port is set to a baud rate of 115200 bps, eight data bits, no sum check bit, and one stop bit.

Online Resources

- **Download** https://www.fs.com/products_support.html.
- **Help Center:** https://www.fs.com/service/fs_support.html.

- **Contact Us:** https://www.fs.com/contact_us.html.

Product Warranty

FS ensures our customers that for any damage or faulty items due to our workmanship, we will offer a free return within 30 days from the day you receive your goods. This excludes any custom-made items or tailored solutions.

- **Warranty:** The product enjoys a 4-year limited warranty against defects in materials or workmanship. For more details about the warranty, please check at **https://www.fs.com/policies/warranty.html**.
- **Return:** If you want to return the item(s), information on how to return can be found at **https://www.fs.com/policies/day_return_policy.html**.

CAN ICES-003(A)/NMB-003(A)
This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

The digital apparatus complies with Canadian CAN ICES-003(A)/NMB-003(A).

Hereby, FS.COM Innovation Ltd declares that this device is in compliance with Directive SI 2016 No. 1091 and SI 2016 No. 1101.

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Compliance Information

FCC

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

CE: **FS.COM** GmbH hereby declares that this device is in compliance with Directive 2014/30/EU and

2014/35/EU. A copy of the EU Declaration of Conformity is available at
www.fs.com/company/quality_control.html

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Documents / Resources

	FS S3400-48T6SP Ethernet L2 Plus Poe Plus Switch [pdf] User Guide S3400-48T6SP Ethernet L2 Plus Poe Plus Switch, S3400-48T6SP, Ethernet L2 Plus Poe Plus Switch, L2 Plus Poe Plus Switch, Plus Poe Plus Switch, Poe Plus Switch, Plus Switch, Switch

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