

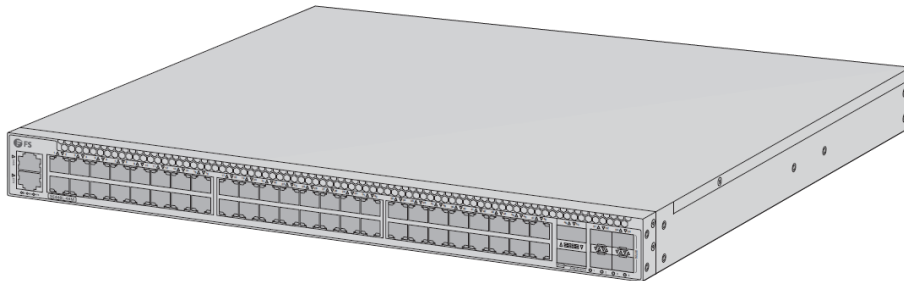


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FS S5440L-48M Enterprise Switch

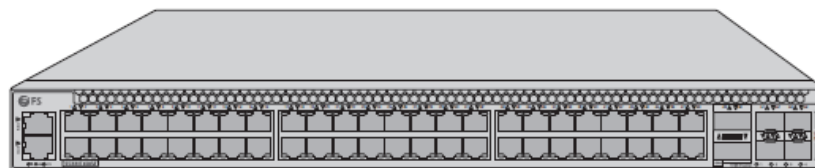


Specifications

- Model: S5440L-48M
- Type: Enterprise Switch
- Standard: SFP28

Introduction

Thank you for choosing the Enterprise Switch. This guide is designed to familiarize you with the layout of the switch and describe how to deploy it in your network



S5440L-48M

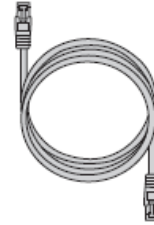
Accessories



Power Cord x1



Console Cable x1



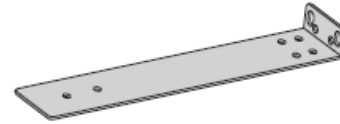
Network Cable x1



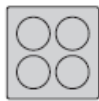
Grounding Cable x1



M4 Screw x12



Mounting Bracket x2

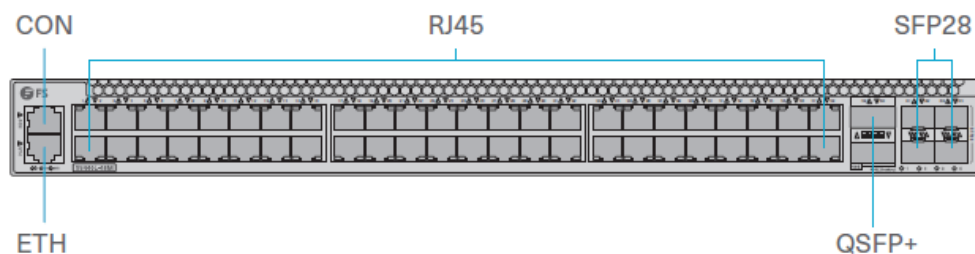


Rubber Pad x4

NOTE: The accessories may vary from the illustration, please prevail in kind..

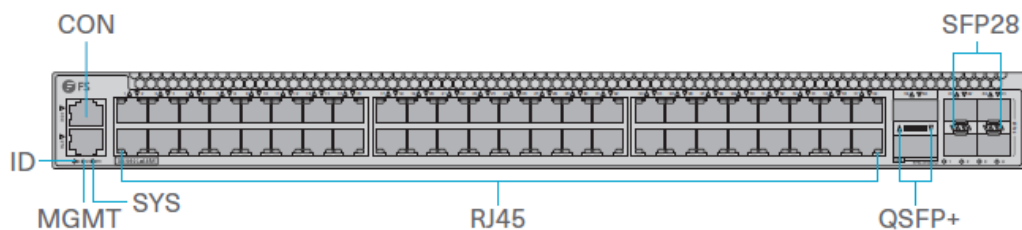
Hardware Overview

Front Panel Ports



Ports	Description
SFP28	SFP28 ports for 10/25 Gbps connection
QSFP+	QSFP+ ports for 40 Gbps connection. Support 4×10 Gbps breakout
RJ45	RJ45 ports for 100 Mbps/1/2.5 Gbps Ethernet connection
CON	An RJ45 console port for serial management
ETH	An Ethernet management port

Front Panel LEDs



LEDs	State	Description
ID	Solid Blue	The ID indication function is enabled.
	Off	The ID indication function is disabled.
MGMT	Solid Green	The port is connected.
	Blinking Amber	The port is receiving or transmitting data.
	Off	The port is not connected.
SYS	Solid Green	The system is running normally.
	Solid Amber	The system has triggered an alarm or error condition.
	Off	The system has no power supply, fails to operate, or is functioning abnormally.
ETH	Solid Green	The port is linked.
	Blinking Green	The port is receiving or transmitting packets.
	Off	The port is not linked.
	Solid Green	The port is linked at 2.5 Gbps.
	Blinking Green	The port is receiving or transmitting packets at 2.5 Gbps.
	Solid Amber	The port is linked at 100 Mbps/1 Gbps.

RJ45	Blinking Amber	The port is receiving or transmitting packets at 100 Mbps/1 Gbps.
	Off	The port is not linked.
QSFP+	Green	The port is linked at 40 Gbps.
	Blinking Green	The port is receiving or transmitting packets at 40 Gbps.
	Amber	The port is linked at 10 Gbps.
	Blinking Amber	The port is receiving or transmitting packets at 10 Gbps.
	Off	The port is not linked.
SFP28	Solid Green	The port is linked at 25 Gbps.
	Blinking Green	The port is receiving or transmitting packets at 25 Gbps.
	Solid Amber	The port is linked at 10 Gbps.
	Blinking Amber	The port is receiving or transmitting packets at 10 Gbps.
	Off	The port is not linked.

Installation Requirements

Before the installation, please make sure that you have prepared the following:

- Standard-sized, 19-inch-wide rack with a minimum of 1U height available.
- Category 5e or higher RJ45 Ethernet cables, and fiber optical cables. M6 screws and cage nuts.
- Phillips screwdriver.
- ESD bracelet, ESD gloves, or ESD clothing.

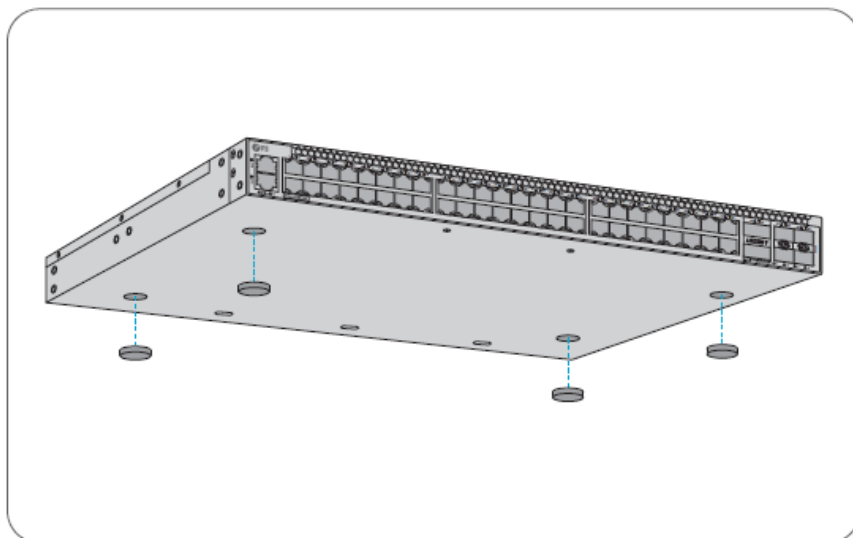
- Cable ties, marker, and utility knife.

Site Environment

- Make sure that the operating temperature is maintained within 0°C to 45°C.
- Make sure that the operating humidity is maintained within 10% to 95%.
- Make sure that the installation site is well-ventilated to ensure sufficient airflow around the switch.
- Make sure that the installation site is free of dust, leaks, drips, heavy condensation, and moisture.
- Make sure that the rack is properly grounded.
- Avoid installing the equipment against the wall to facilitate heat dissipation and maintenance, and make sure that there is adequate space around its four sides.

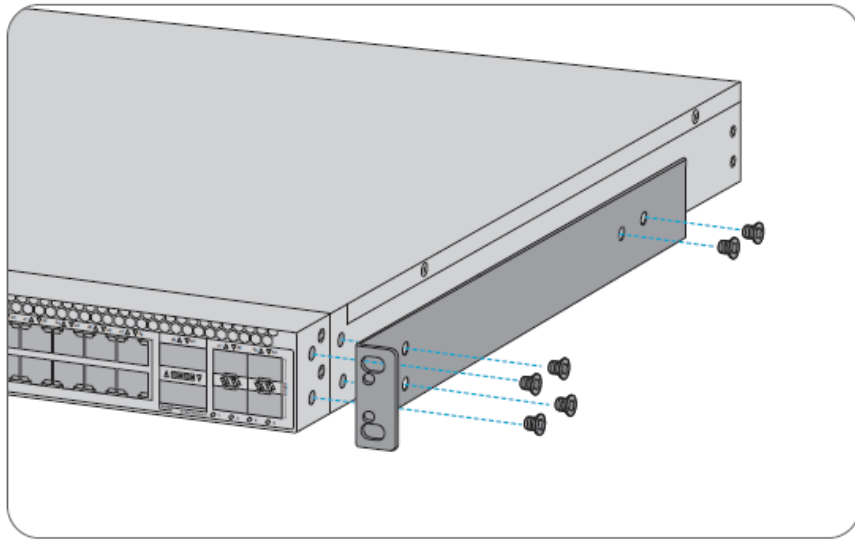
Mounting the Switch

Desk Mounting

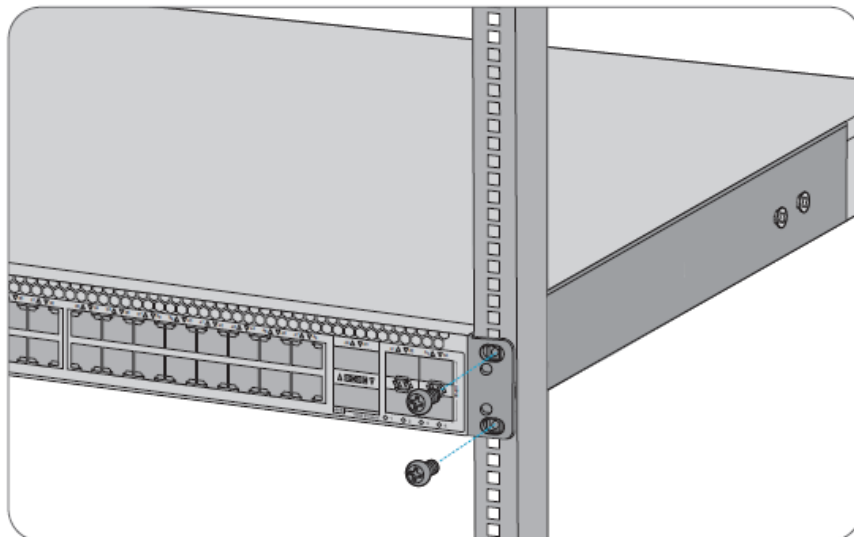


1. Attach four rubber pads to the switch bottom.
2. Place the switch on a stable desk.

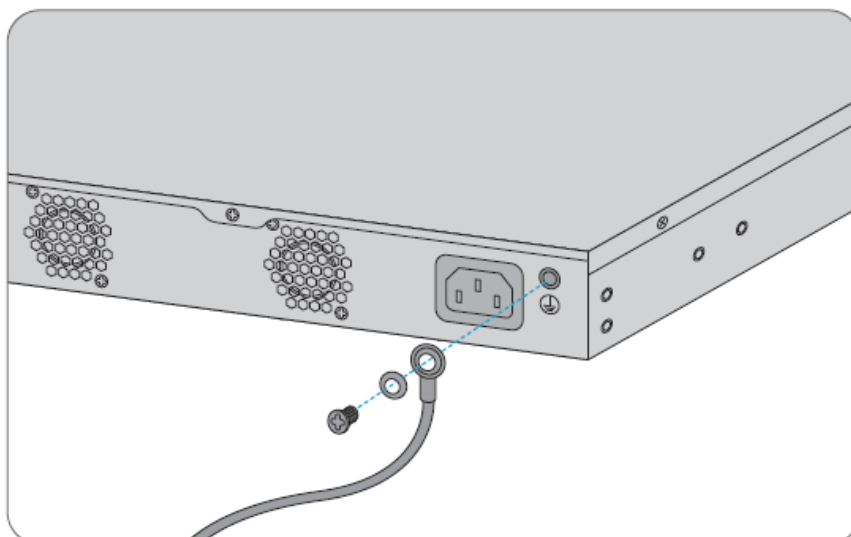
Rack Mounting



1. Secure the mounting brackets to the two sides of the switch with twelve M4 screws.
2. Attach the switch to the rack using self-provided M6 screws and cage nuts.

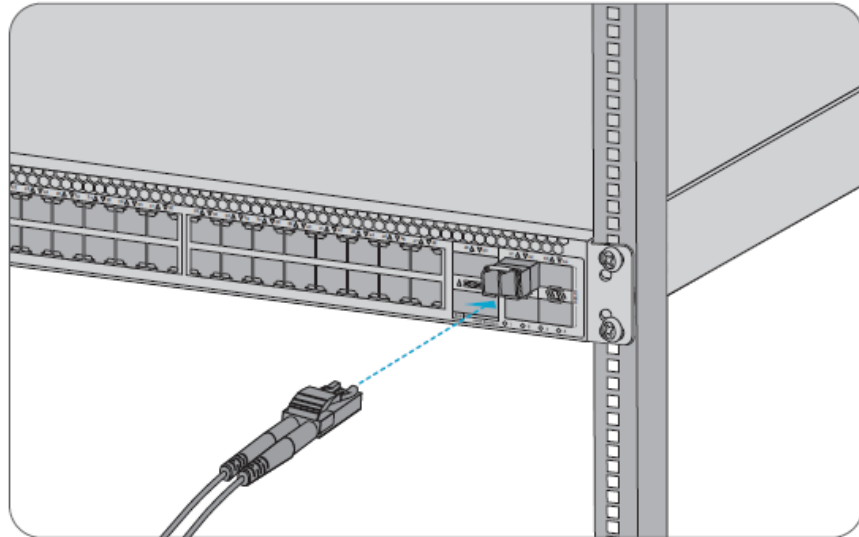


Grounding the Switch



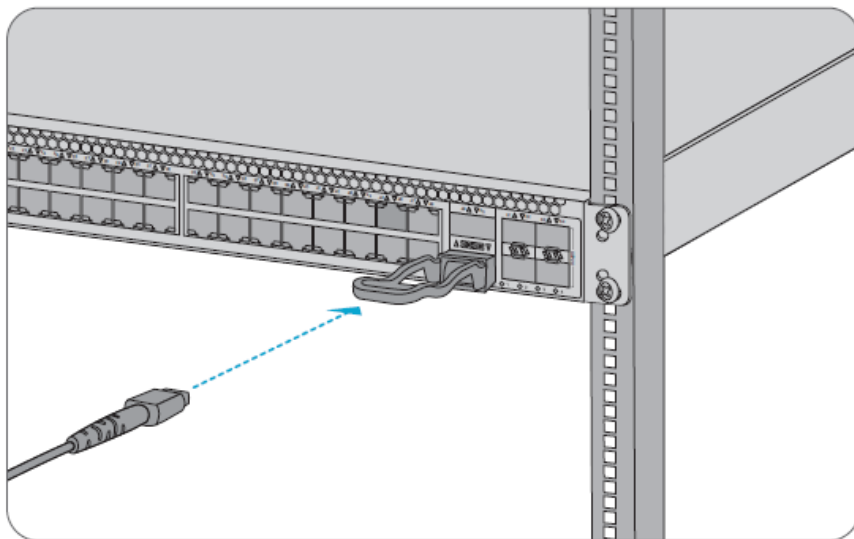
1. Connect one end of the grounding cable to a proper earth ground, such as the rack in which the switch is mounted.
2. Secure the other end of the grounding cable to the grounding point on the switch back panel with the washer and the screw.

Connecting the SFP28 Ports



1. Plug the compatible SFP28 transceiver into the SFP28 port.
2. Connect a fiber optic cable to the transceiver, then connect the other end of the cable to another fiber device.

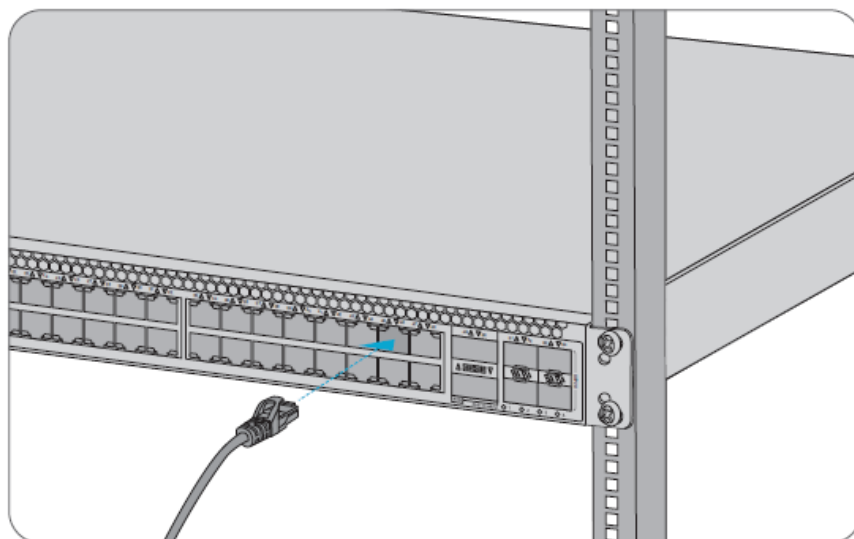
Connecting the QSFP+ Ports



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

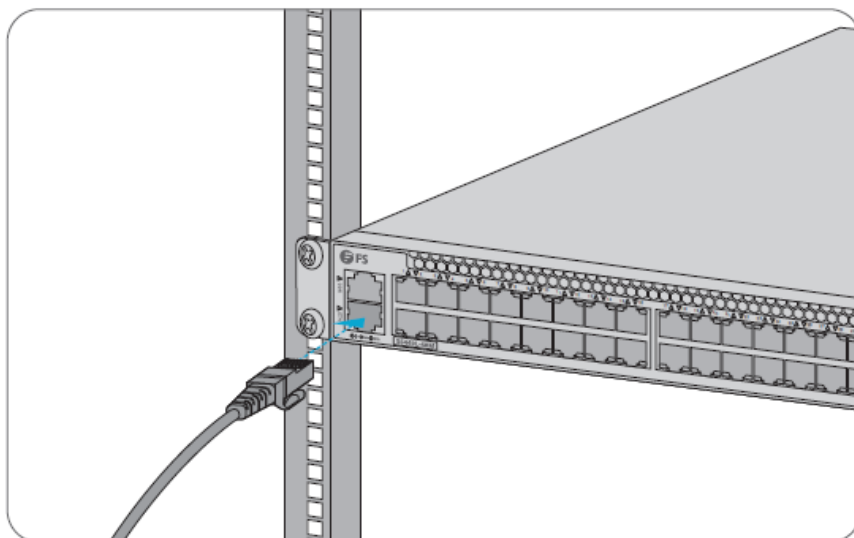
to another fiber device.

Connecting the RJ45 Ports



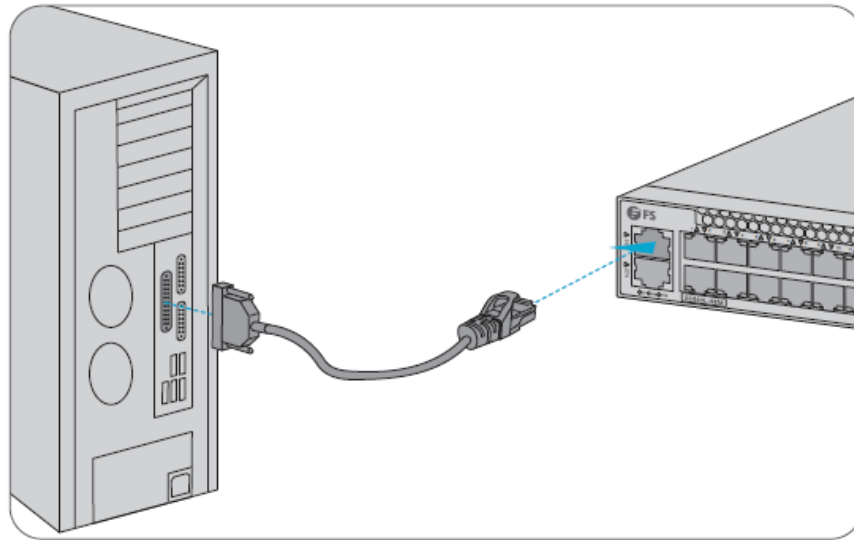
1. Connect an Ethernet cable to the RJ45 port of a computer, printer, network storage, or other network devices.
2. Connect the other end of the Ethernet cable to the RJ45 port of the switch.

Connecting the ETH Port



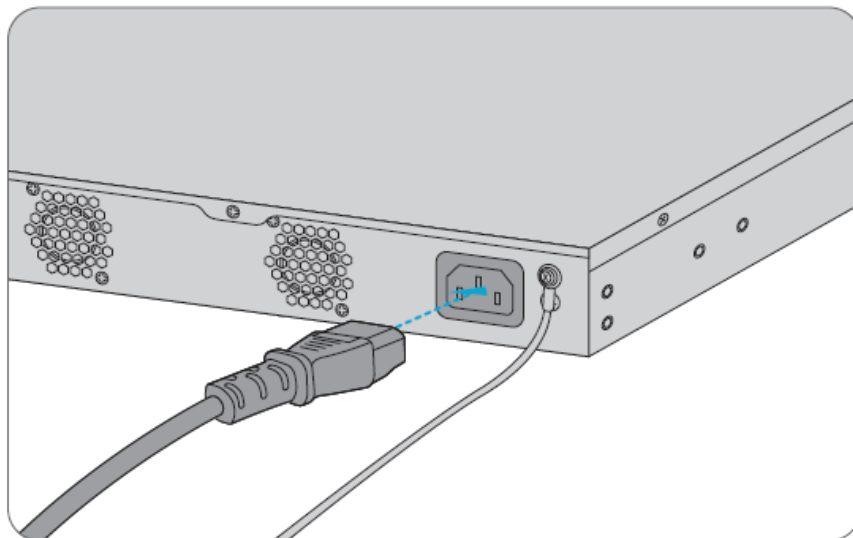
1. Connect one end of the supplied network cable to a computer.
2. Connect the other end of the cable to the ETH port on the front of the switch.

Connecting the Console Port



1. Insert the RJ45 connector of the console cable into the console port on the front of the switch.
2. Connect the other end of the console cable to the RS-232 serial port on the computer.

Connecting the Power



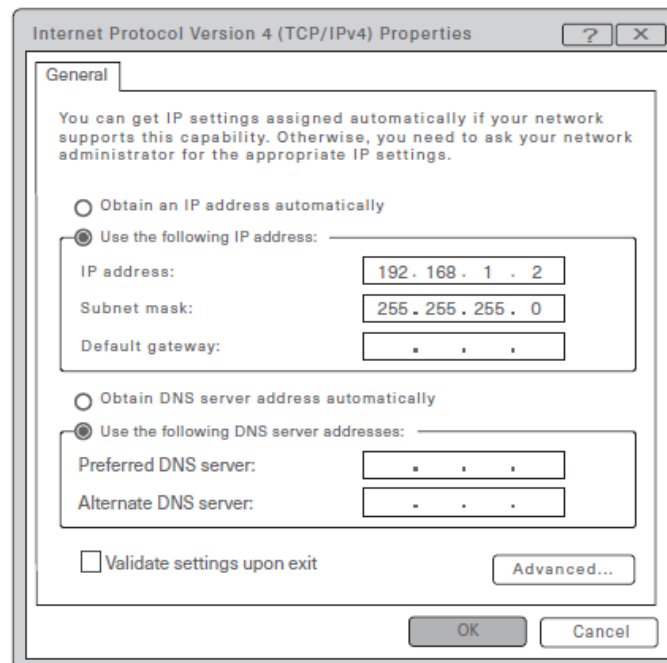
1. Plug the AC power cord into the power port on the back of the switch.
2. Connect the other end of the power cord to an AC power source.

Configuring the Switch

Configuring the Switch Using the Web-Based Interface

- Step 1: Connect the computer to any 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 open the web-based configuration page.



Configuring the Switch Using the Console Port

- Step 1: Connect a computer to the switch’s console port using the supplied 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.

Quick Connect [X]

Protocol: Serial

The port may be manually entered or selected from the list.

Port: COM5 USB Serial Port

Baud rate: 115200

Data bits: 8

Parity: None

Stop bits: 1

Flow Control

☐ DTR/DSR

☐ RTS/CTS

☐ XON/XOFF

Name of pipe:

☐ Show quick connect on startup

☒ Save session

☒ Open in a tab

Done Connect Cancel

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

Troubleshooting

Configuration Terminal Shows No Display or Garbled Text

- Check the power supply status.
- Check whether the console cable is undamaged and securely connected.
- Check whether the connected console port is consistent with the console port configured in HyperTerminal.
- Check terminal settings (baud rate to 115200, data bits to 8, no parity, stop bit to 1).

Newly-Inserted Expansion Module Fails to Power On

- Check whether the module is properly inserted.

Optical Port Fails to Link

- Check whether the fiber TX and RX connections are correct.
- Check whether the interconnected optical modules use the same wavelength.
- Check whether the actual link distance does not exceed the optical module's maximum supported distance.
- Check whether the port speeds match on both ends.
- Check whether the fiber type meets the transmission requirements.

- Check whether the port rate mode is properly configured for multi-rate ports.

If the above issues persist, please contact technical support for help.

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 5-year limited warranty against defects in materials or workmanship. For more details about the warranty, please check

- <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

Online Resources



- For additional technical documents, visit:
https://www.fs.com/technical_documents.html.

Download the FS APP



- Scan the QR code to download and install the FS app from the App Store or Google Play Store, or go to <https://www.fs.com/appdownload.html>.

FAQS

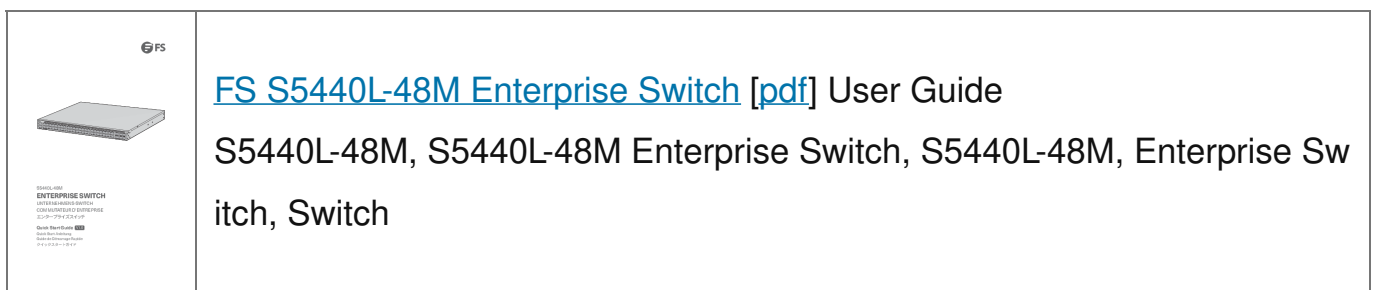
What do the different LED states indicate?

The LED states indicate various conditions such as port connection, data transmission, system status, and more. Refer to the user manual for detailed explanations of each LED state.

: Can I use any rack for mounting the switch?

It is recommended to use a standard-sized, 19-inch-wide rack with a minimum of 1U height for mounting the switch to ensure proper fit and stability.

Documents / Resources



References

- User Manual

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