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FS S5850-24B4C 24 Port Ethernet L3 Switch User Guide
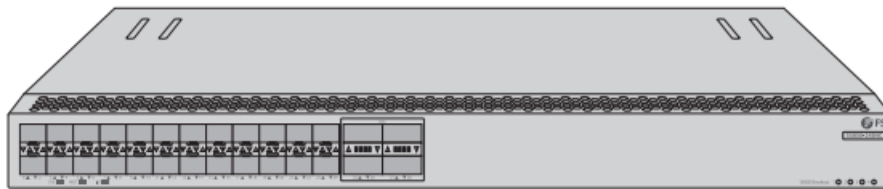
Contents

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FS S5850-24B4C 24 Port Ethernet L3 Switch

Introduction

Thank you for choosing the S5850-24B4C 24-Port Ethernet L3 Switch. This guide is designed to familiarize you with the layout of the switch and describes how to deploy it in your network.

S5850-24B4C

Accessories

NOTE: This power cord cannot be used with other devices, and other power cords should not be used with this device.

Power Cord x2

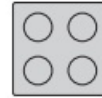Console Cable x1

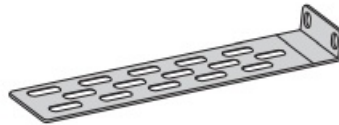Ethernet Cable x1

Grounding Cable x1

M4 Screw x10

Rubber Pad x4

Sliding Rail x2

Rear Mounting Bracket x2

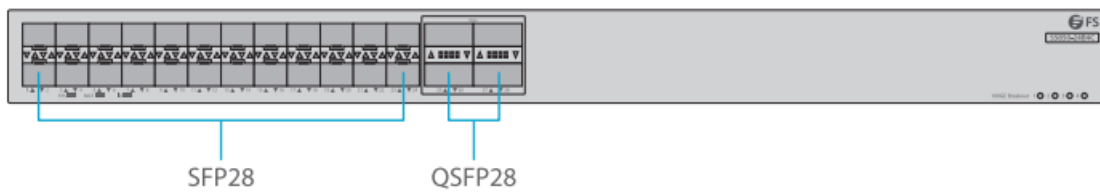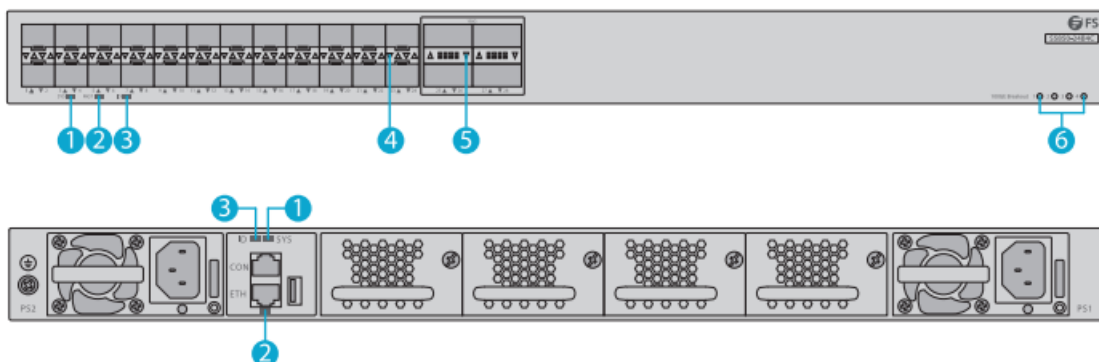Front Mounting Bracket x2

M6 Screw x4

M6 Nut x4

Hardware Overview

Front Panel Ports

SFP28   QSFP28

QSFP28	40/100G connection
SFP28	SFP28 ports for 25G connection

Front & Back Panel LEDs

	SYS	Green	On	running.
		Orange	On	The system occurs an alarm or error.
		Off		The system is powered off or runs abnormally.
2	MGT	Green	On	The port is linked.
			Off	The port is not linked.
3	ID	Blue	On	ID indication function is enabled.
			Off	ID indication function is disabled.
4	SFP28 (1-24)	Green	On	25G port is linked.
			Blinking	25G packets are being received or transmitted.
		Orange	On	**1**0G/1G port is linked.
			Blinking	10G/1G packets are being received or transmitted.
		Off		The port is not linked.

5	QSFP28 (25~28)	Green	On	linked.
			Blinking	100G/40G packets are being received or transmitted.
		Orange	On	10G/1G port is linked.
			Blinking	10G/1G packets are being received or transmitted.
		Off		The port is not linked.
6	Breakout	Loop Blinking		One or more 100G/40G ports are in breakout mode.
		Off		None of the 100G/40G ports is in breakout mode.

Back panel Ports
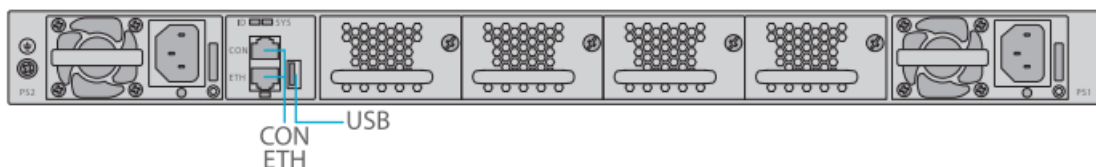
CON	port for serial management
ETH	An Ethernet management port
USB	A USB management port for software and configuration backup and offline software upgrade

Installation Requirements

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

- Flathead screwdrivers, Phillips screwdrivers, and ESD-preventive wrist strap.
- Standard-sized, 19″ wide rack with a minimum of 1U height available.
- Fiber optical cables for connecting network devices.

Site Environment:

- Make sure that the temperature of the installation site is maintained at 0°C~45°C and the humidity is maintained at 10% ~95%.
- 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, or humidity.
- The equipment room must be protected against the ingress of harmful gases.
- Ensure the rack and working platforms are well-earthed.

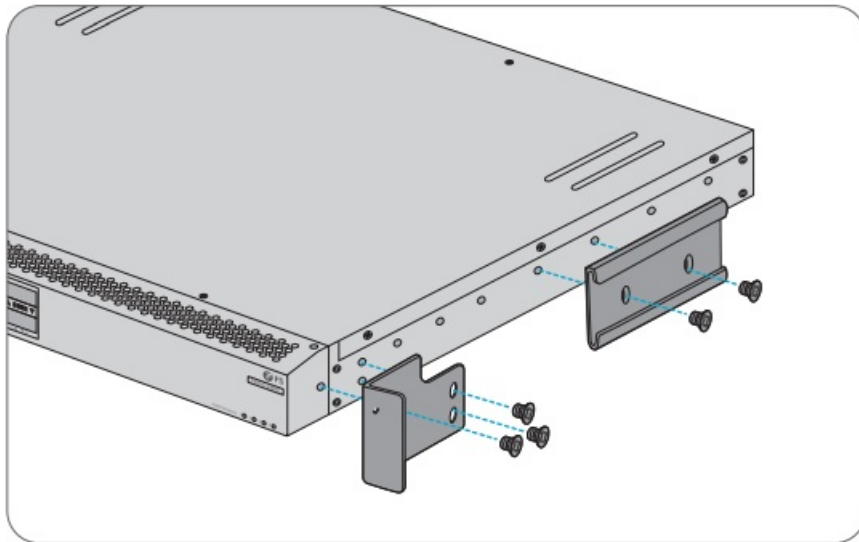## Mounting the Switch

Desk Mounting
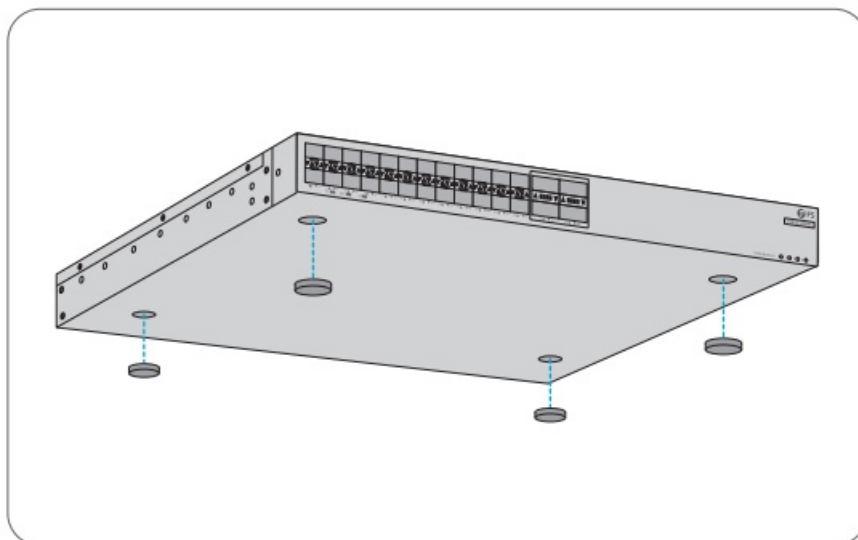
1. Paste the four rubber pads onto the bottom near the corners of the switch.
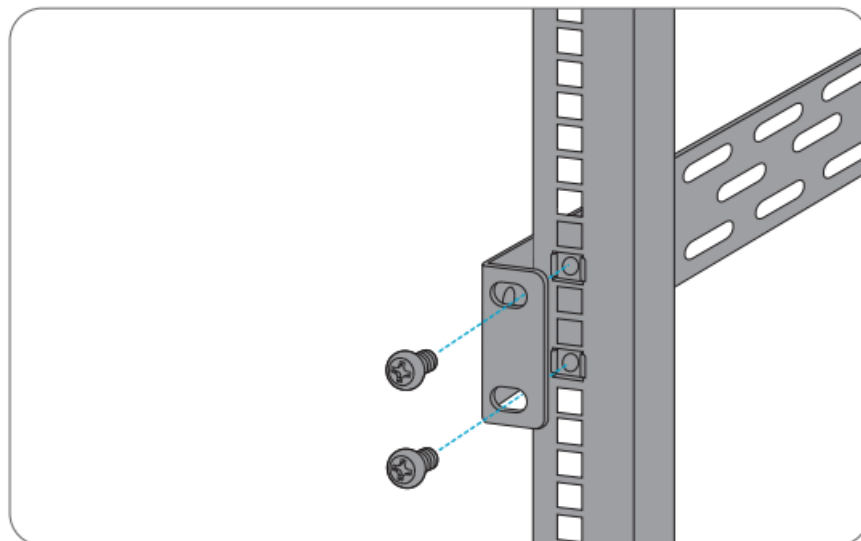2. Place the switch on a clean working platform.

NOTE:

1. A 10cm space around the switch is left for heat dissipation.
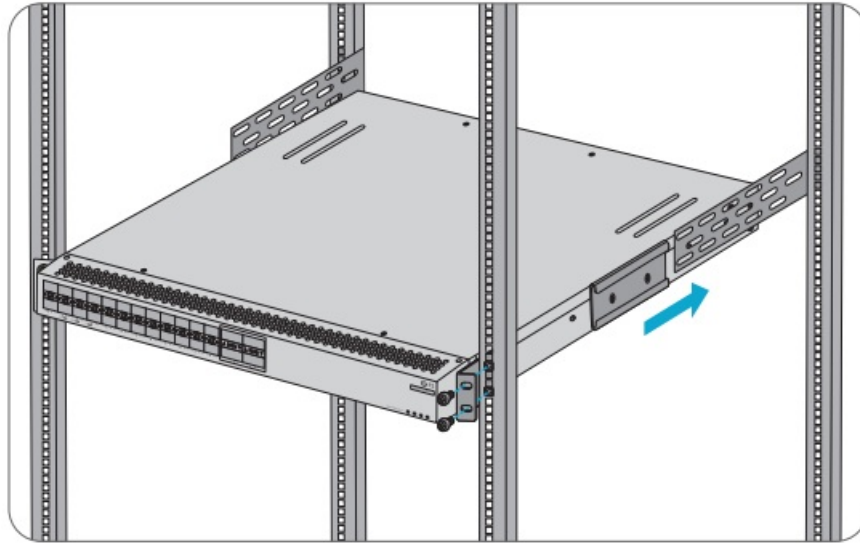2. Do not place heavy objects on the switch.

Rack mounting

1. Secure the front mounting brackets and the sliding rails to the two sides of the switch with the supplied screws.
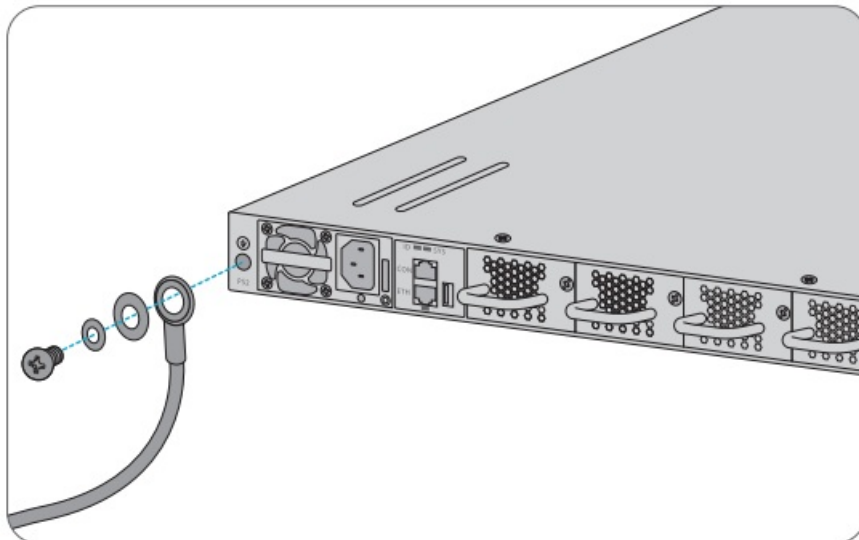

2. Fix the rear mounting brackets to the rack.

3. Push the switch slightly into the rack along the sliding rails, and fix the switch to the rack using the screws and nuts.
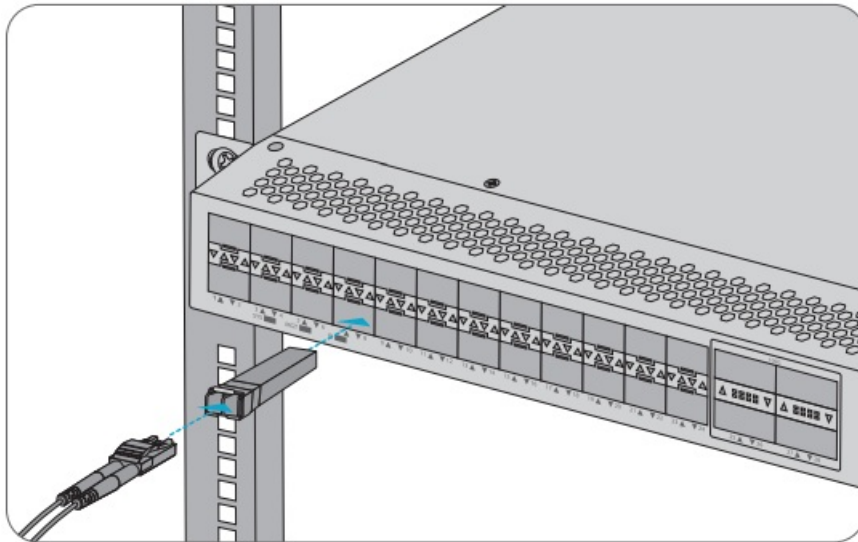
Grounding the Switch

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 grounding lug to the grounding point on the switch with the screw and washers.
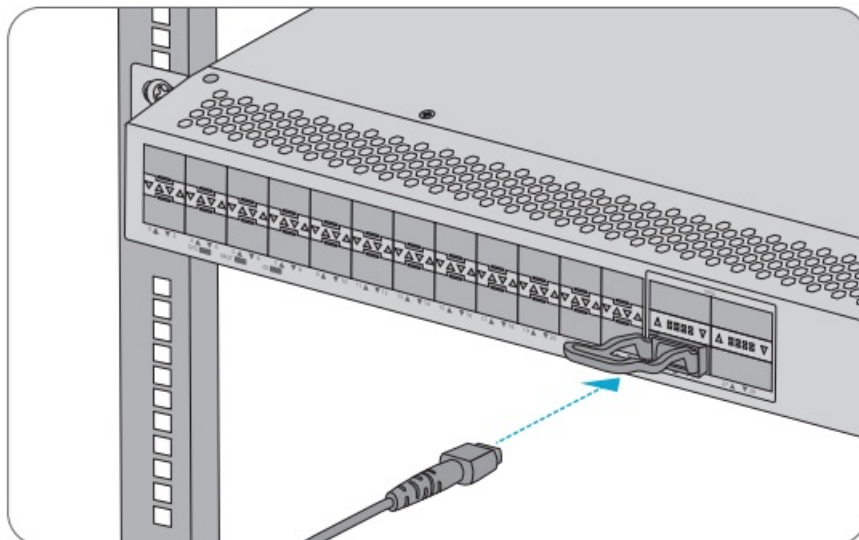   **CAUTION:** The earth connection must not be removed unless all supply connections have been disconnected.

Connecting the SFP28 Ports

1. Plug the compatible SFP28 transceiver into the SFP28 port. Connect a fiber optic cable to the fiber transceiver. Then connect the other end of the cable to another fiber device.
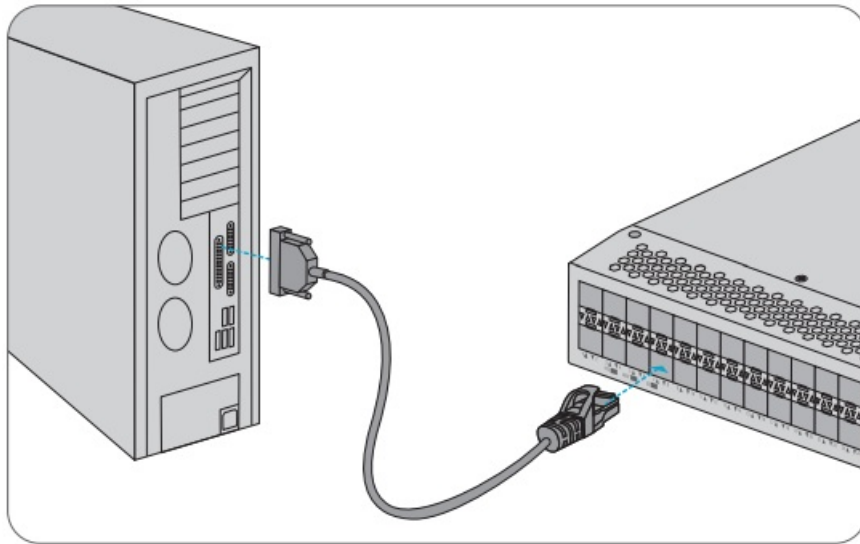
Connecting the QSFP28 Ports

1. Plug the compatible QSFP28 transceiver into the QSFP28 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 switch.
2. Connect the DB9 female connector of the console cable to the serial port on the computer.

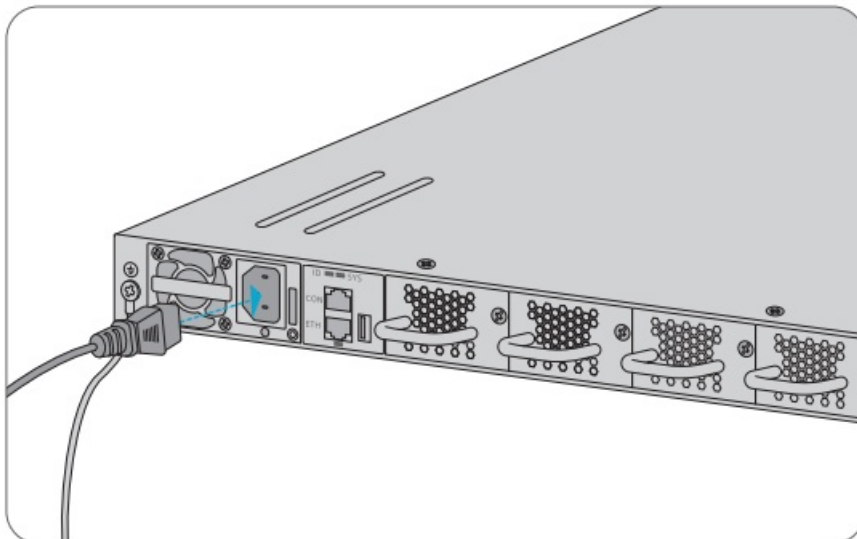**Connecting the ETH Port**
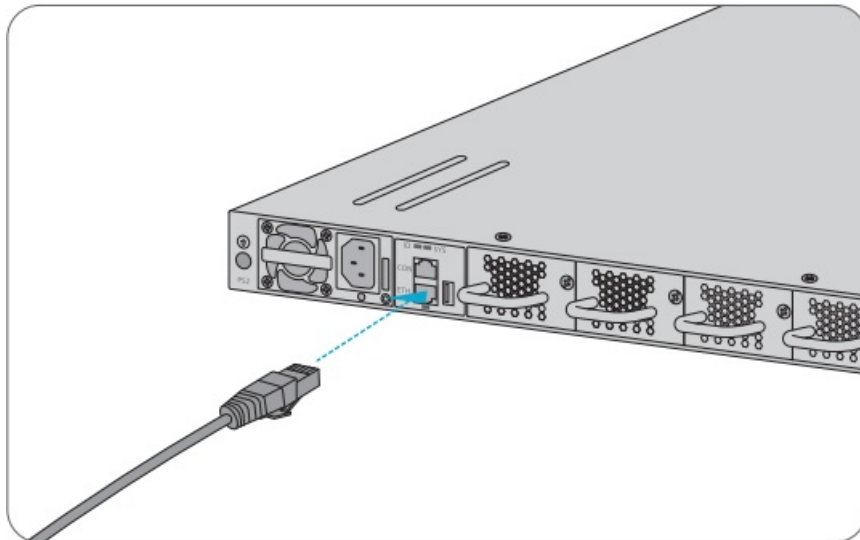
1. Connect one end of a standard RJ45 Ethernet cable to the Ethernet port of a computer.
2. Connect the other end of the cable to the ETH port on the switch.

Connecting the USB Port
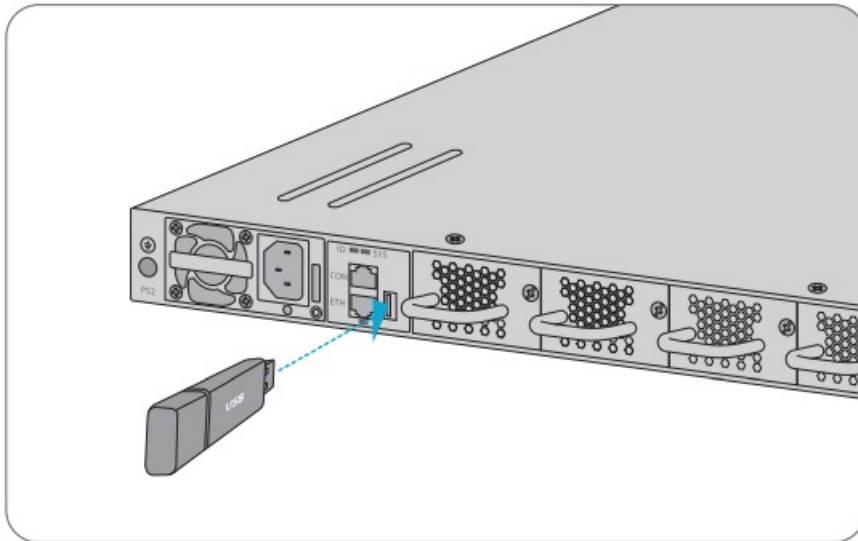
Insert the Universal Serial Bus (USB) flash disk into the USB port for software and configuration backup and offline software upgrade.
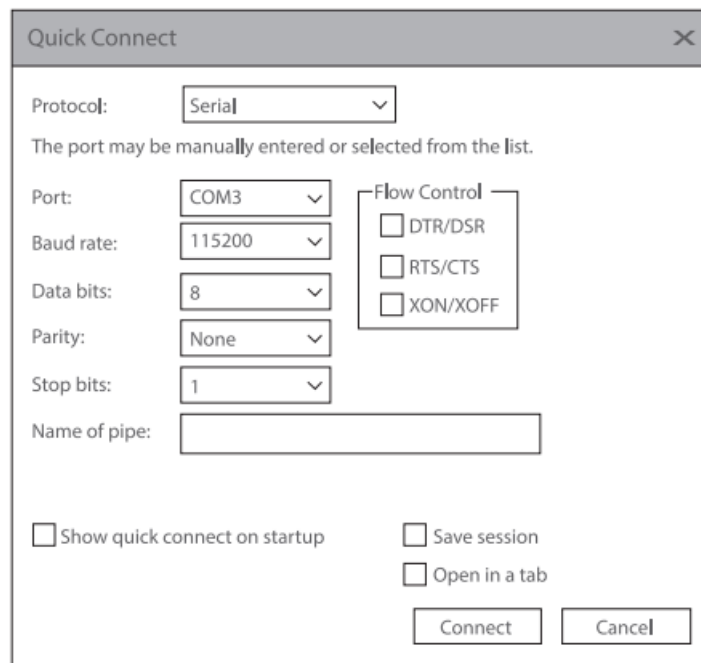
Connecting the Power

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

WARNING: Do not install power cords 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.
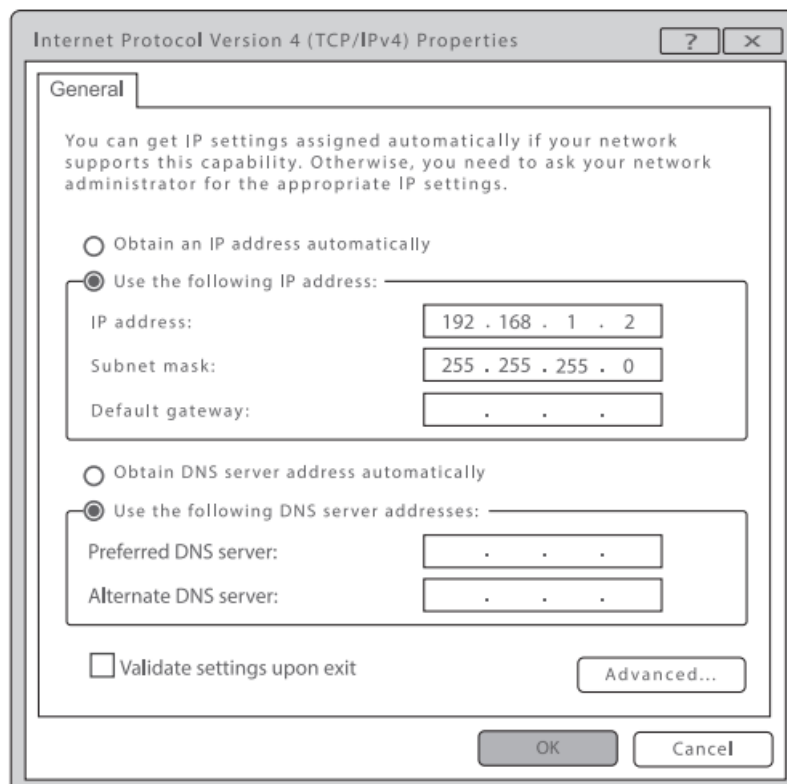
- Step 4: After setting the parameters, click Connect to enter.

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" is any number from 2 to 254).
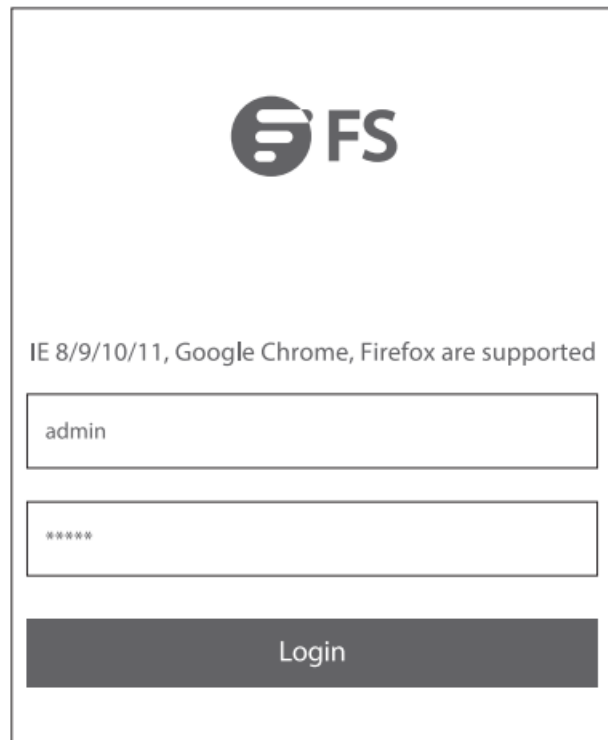
- Step 3: Open a browser, type http://192.168.1.1 and enter the default username and password, admin/admin.

IE 8/9/10/11, Google Chrome, Firefox are supported

admin

*****

Login

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

Troubleshooting

Loading Failure
Re-check if physical port connections are good first. If some ports are not connected, then re-connect them and begin re-loading. If physical connections are correct, then check the loading process information displayed on the super terminal to verify if there are input errors. If so, correct them and re-load. • If physical connections are good, and there are no input errors in the loading process but the loading fails finally, please contact professionals for help.

User Password
Lost If the system password is lost or forgotten, please enter Boot operation mode and input the boot_flash_nopass command to start the system in Boot mode, then you can reset the password.
CAUTION: After using the boot_flash_nopass command, the system will clear up the startup-config files. Before starting this operation, the startup-config files will be stored in flash:/startup-config.conf.old file.

Power System Troubleshooting

When the PWR indicator is off, please check if:

- The power line of the switch is connected correctly.
- EPS of the switch matches the power required by the switch. Configuration System Troubleshooting
- After power-on, if no display information on the configuration terminal appears, please check if the power is normal and if the cable of the configuration port (Console) is properly connected.
- If the configuration terminal displays hashes, please confirm the parameter setting of the terminal (such as a super terminal): baud rate: 115200, data bit: 8, parity: no, stop bit: 1, flow control: NA, selecting terminal emulation: VT100.

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 5-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 items), information on how to return can be found at **https://www.fs.com/policies/day_return_policy.html**

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 FCCI 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 equiomen generates, uses, and can raciate rack accordance win the instructon 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 This device complies with part 15 of the FCC Rules. I Operation is subject to the following two conditions:

1. This device may not cause harmful interference,
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 the Directive 2014/30/EU, 2014/35/EU, 2011/65/EU and (EU)2015/863. A copy of the EU Declaration of Conformity is available at **www.fs.com/company/qualitycontrol.html**

UKCA
Hereby, FS.COM Innovation Ltd declares that this device is in compliance with the Directive SI 2016 No. 1091, SI 2016 No. 1101and SI 2012 NO. 3032. FS.COM Innovation Ltd 4th Floor Imperial House, 8 Kean Street, London, England, WC 2B 4AS

ISED

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-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).

Documents / Resources
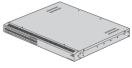
FS S5850-24B4C 24 Port Ethernet L3 Switch [pdf] User Guide
S5850-24B4C, S5850-24B4C 24 Port Ethernet L3 Switch, 24 Port Ethernet L3 Switch, Ethernet
L3 Switch, L3 Switch, Switch