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FS S5850 Series Managed L3 Data Center Switches User Guide
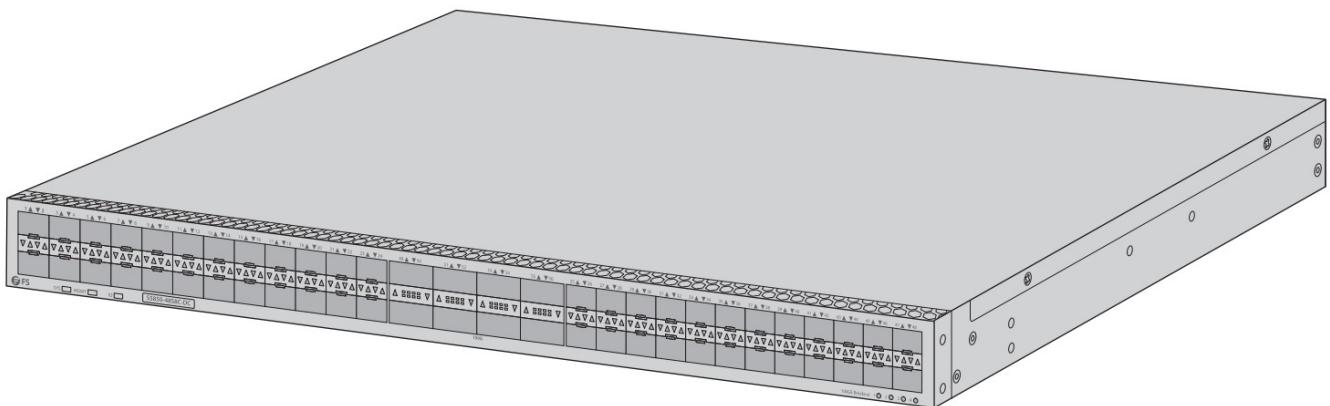
MANAGED L3 DATA CENTER SWITCHES
V1.0
Quick Start Guide

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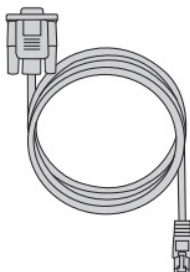
Introduction

Thank you for choosing S5850 Series switches. This guide is designed to familiarize you with the layout of the switches and describes how to deploy the switches in your network.
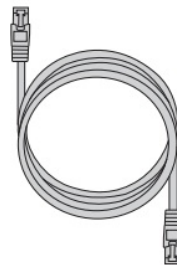

S5850-48S8C

S5850-48B8C
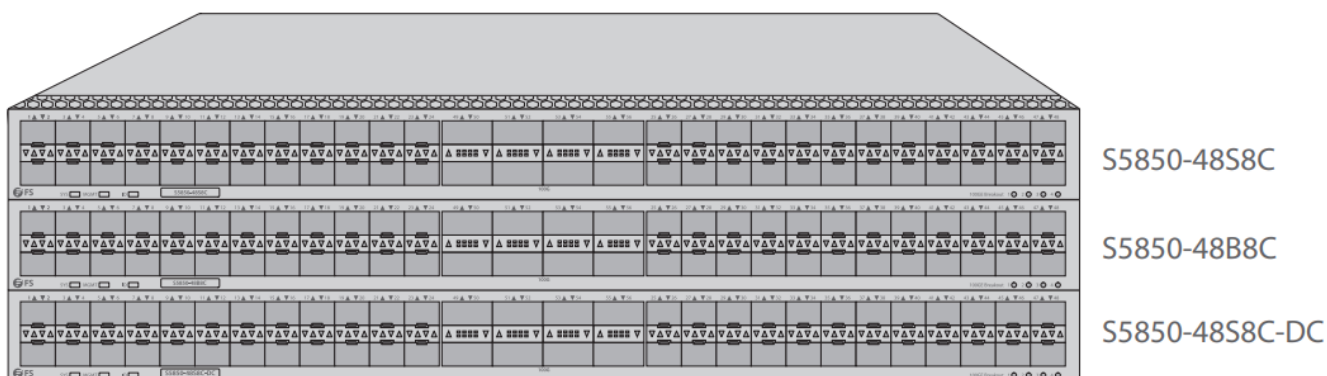
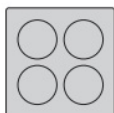S5850-48S8C-DC

Accessories

Power Cord x2

Console Cable （DB9 to RJ45）x1

Cat 5e Cable x1
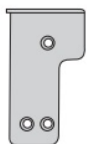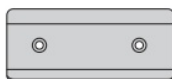

Grounding Cable x1

Rubber Pad x4
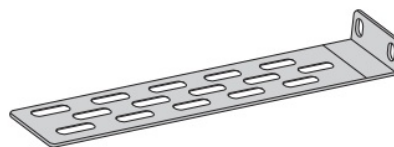

M4 Screw x10

Front Mounting Bracket x2
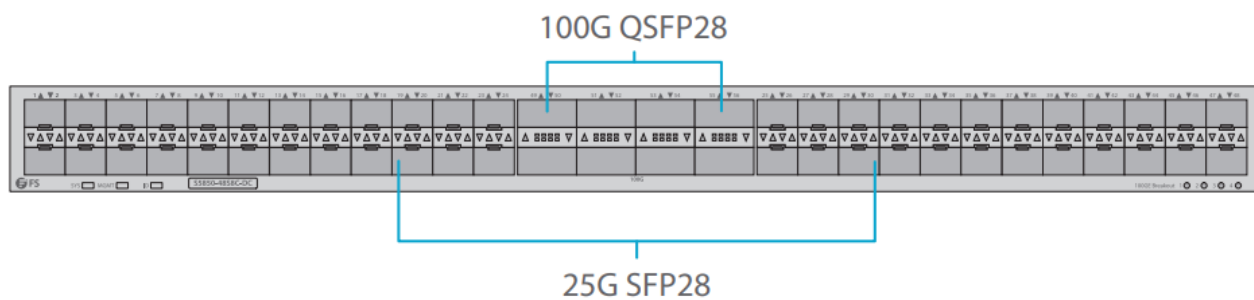

Sliding Rail x2

Rear Mounting Bracket x2

Hardware Overview

Front Panel Ports
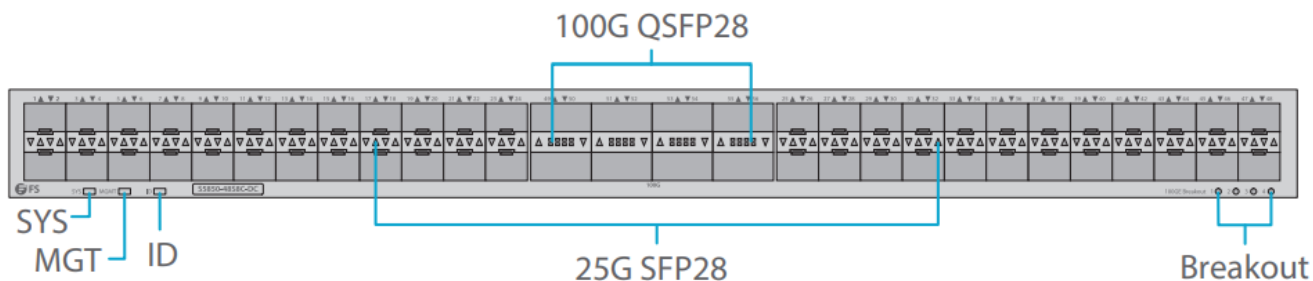SS5850-48S8C-DC

100G QSFP28

25G SFP28

Ports	Description
SFP28	SFP28 ports for 1/10G transceivers
QSFP28	QSFP28 ports for 40/100G transceivers

Front Panel LEDs
S5850-48S8C-DC

LEDs	State			Description
		On		ID indication function enable.
ID	Blue			
		Off		ID indication function disable.
	Green	On		The system is normally running.
SYS	Amber	On		Alarm or error occurs in the system.
	Off			No power or the system is not running or abnormality.
		On		Port is linked.
MGT	Green			
		Off		Port is not linked.
	Loop Blinking			One or more 100G/40G ports are breakout.
Breakout				
	Off			None of the 100G/40G ports is breakout.

Back Panel
S5850-48S8C/S5850-48B8C
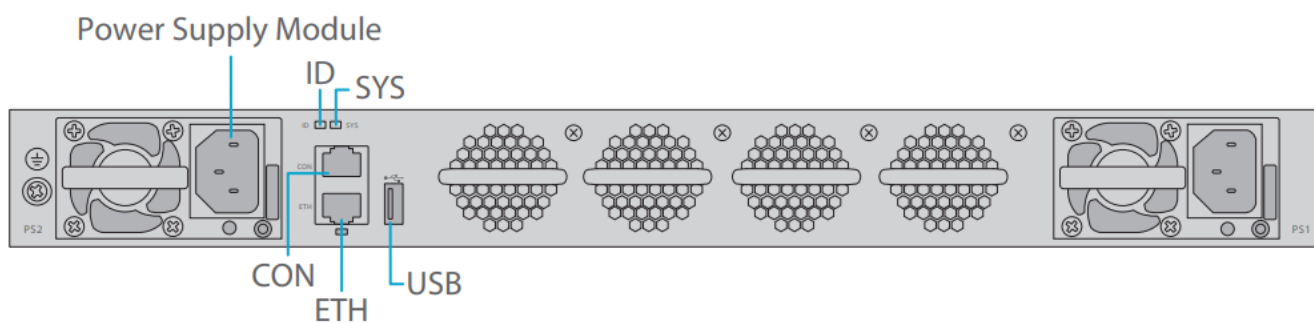
S5850-48S8C-DC
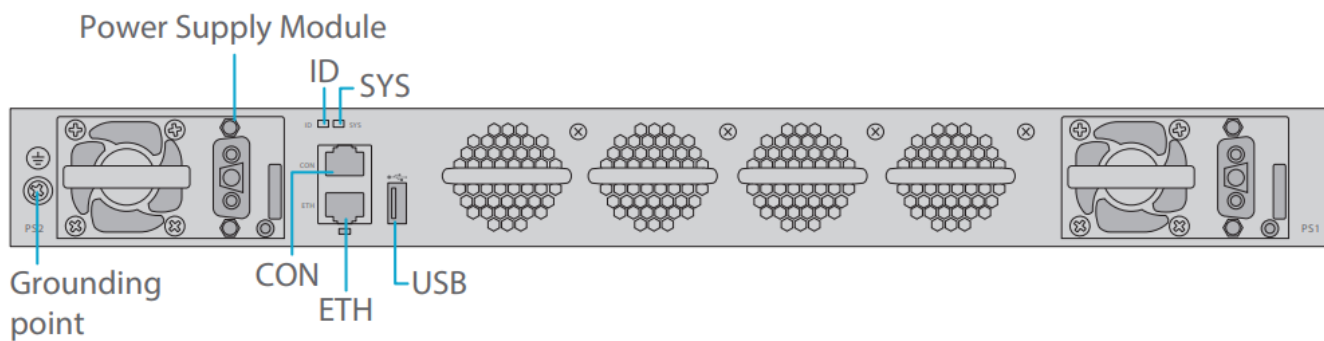
Ports	Description
Power Supply Module	A power supply module port
RJ45 Console Port (CON)	An RJ45 console port for serial management
ETH	An Ethernet management port
USB	A USB management port

Back Panel LEDs

LEDs	State		Description
		On	ID indication function enable.
ID	Blue		
		Off	ID indication function disable.
	Green	On	The system is normally running.
SYS	Amber	On	Alarm or error occurs in the system.
			No power or the system is not running or
	Off		abnormality.
		On	Port is linked.
ETH	Green	Blinking	Port is receiving or transmitting packets.
		Off	Port is not linked.

Installation Requirements

Safety Precaution
The following precautions should be followed to avoid equipment damage and personal injury caused by improper use:

- Power source should be removed before cleaning switches. Do not use wet rags to wipe switches and clean switches with liquid.
- Do not place switches near water or in a wet environment, and prevent water or moisture from entering switch chassis.
- Do not place switches on an unstable case or table, since the dropping would cause serious harm to switches.

- Maintain good indoor ventilation and clear air holes of switches.
- Switches shall work normally under correct voltage, so make sure the operating voltage agrees with the voltage marked on switches.
- To reduce the risk of electric shock, do not remove its enclosure when a switch is working, and don't do so at will even if it is not powered.
- Anti-static gloves must be worn when replacing interface board to prevent static electricity from damaging veneer.

Installation Site

To ensure a normal work environment, S5850 series switches should have the following requirements for workplace:

- Ensure that there are some spaces at the inlet and outlet of switch for heat dissipation of switch chassis.
- Ensure that rack and working platform have good ventilation and heat dissipation systems.
- Ensure that rack and working platform are rm enough to support the weight of a switch and its accessories for installation.
- Ensure rack and working platform are well earthed.
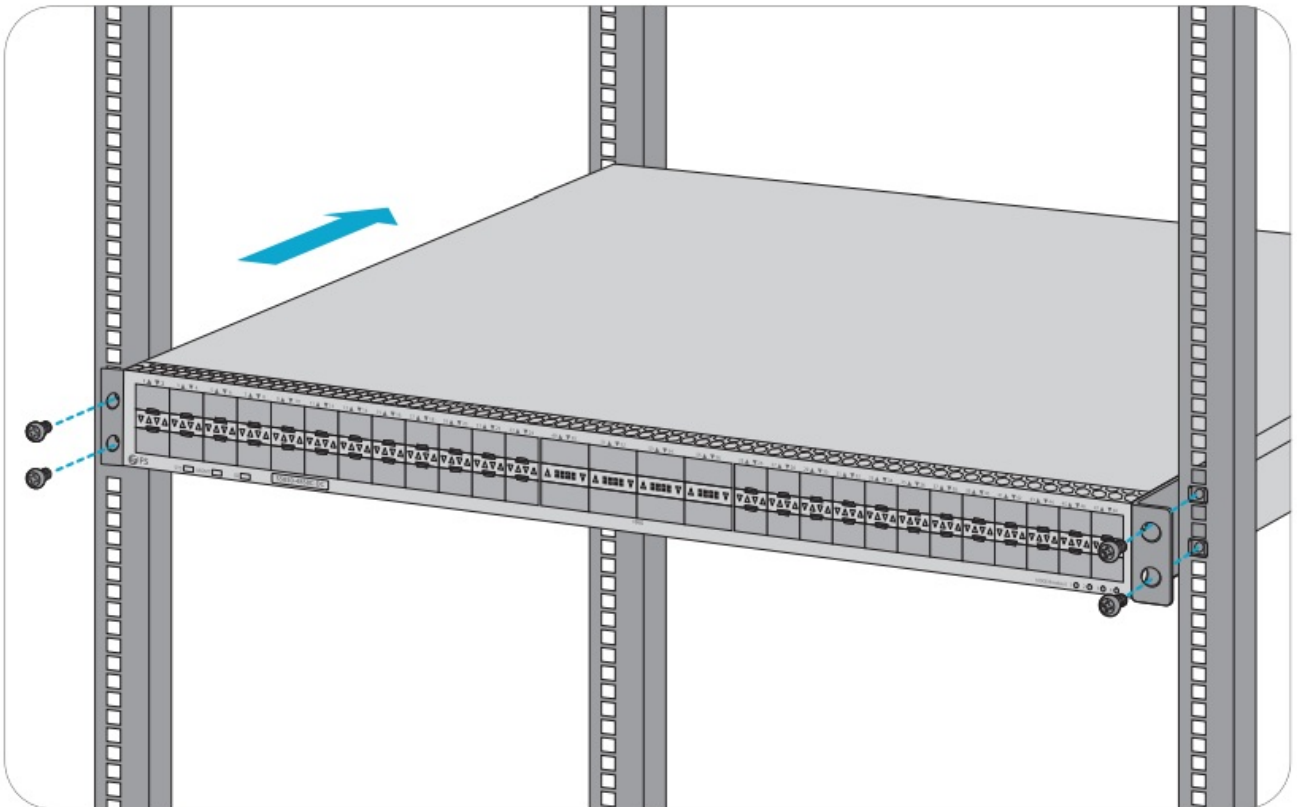
Mounting the Switch

Rack Mounting
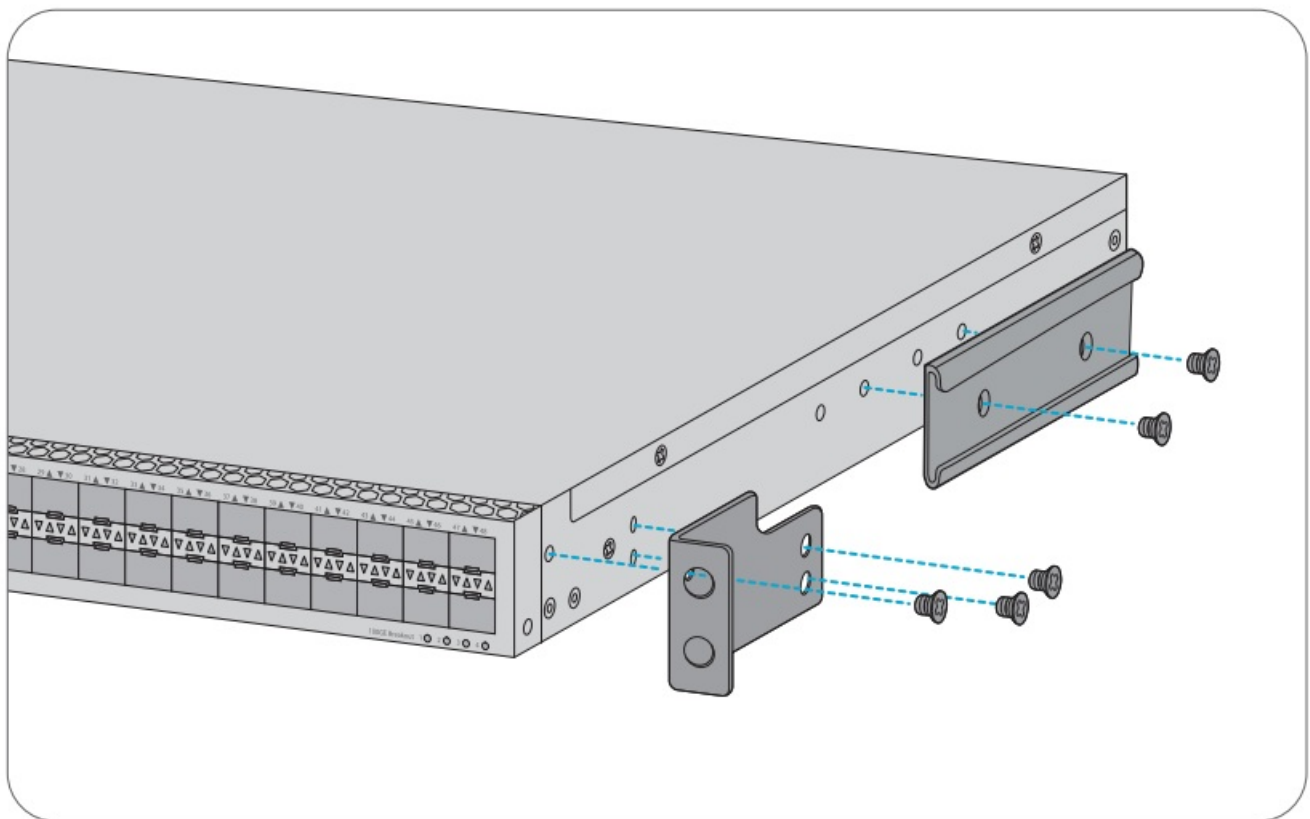
1. Install the front mounting brackets and the sliding rails on the switch.
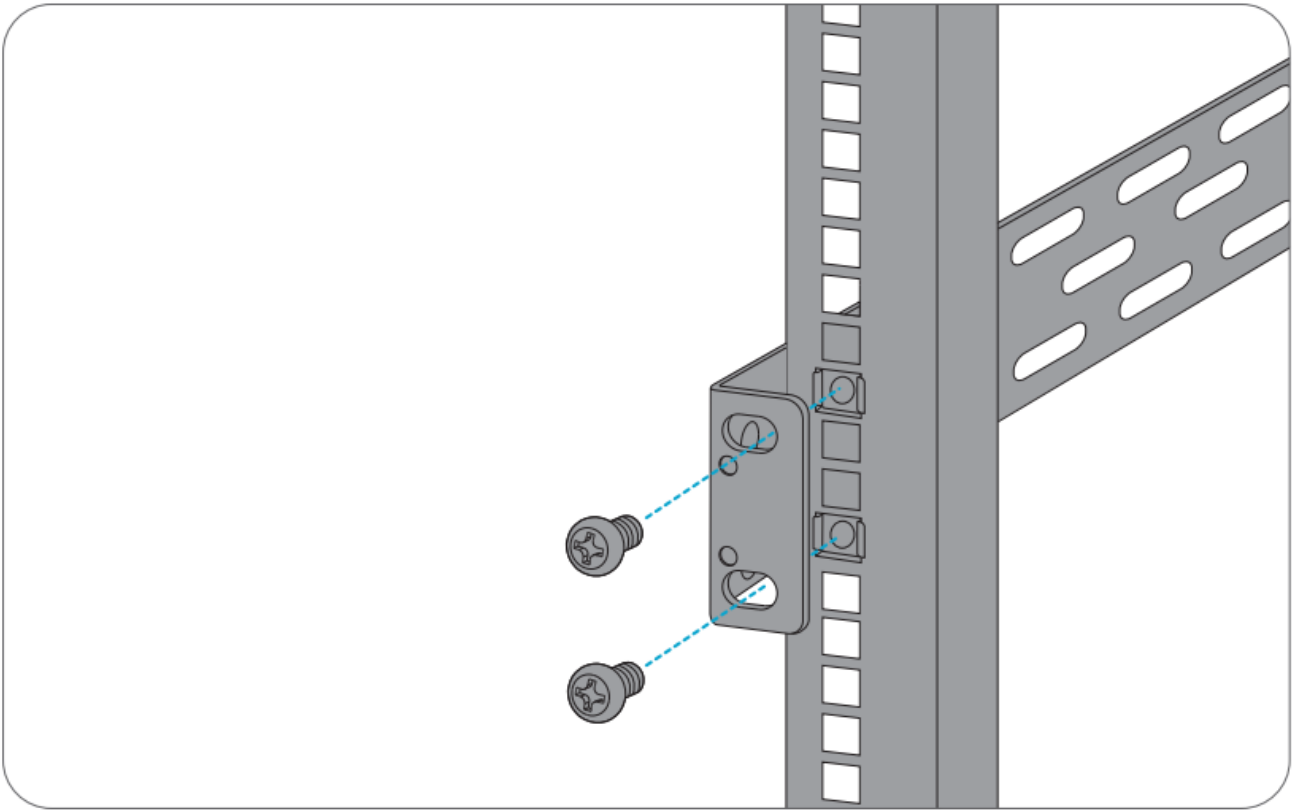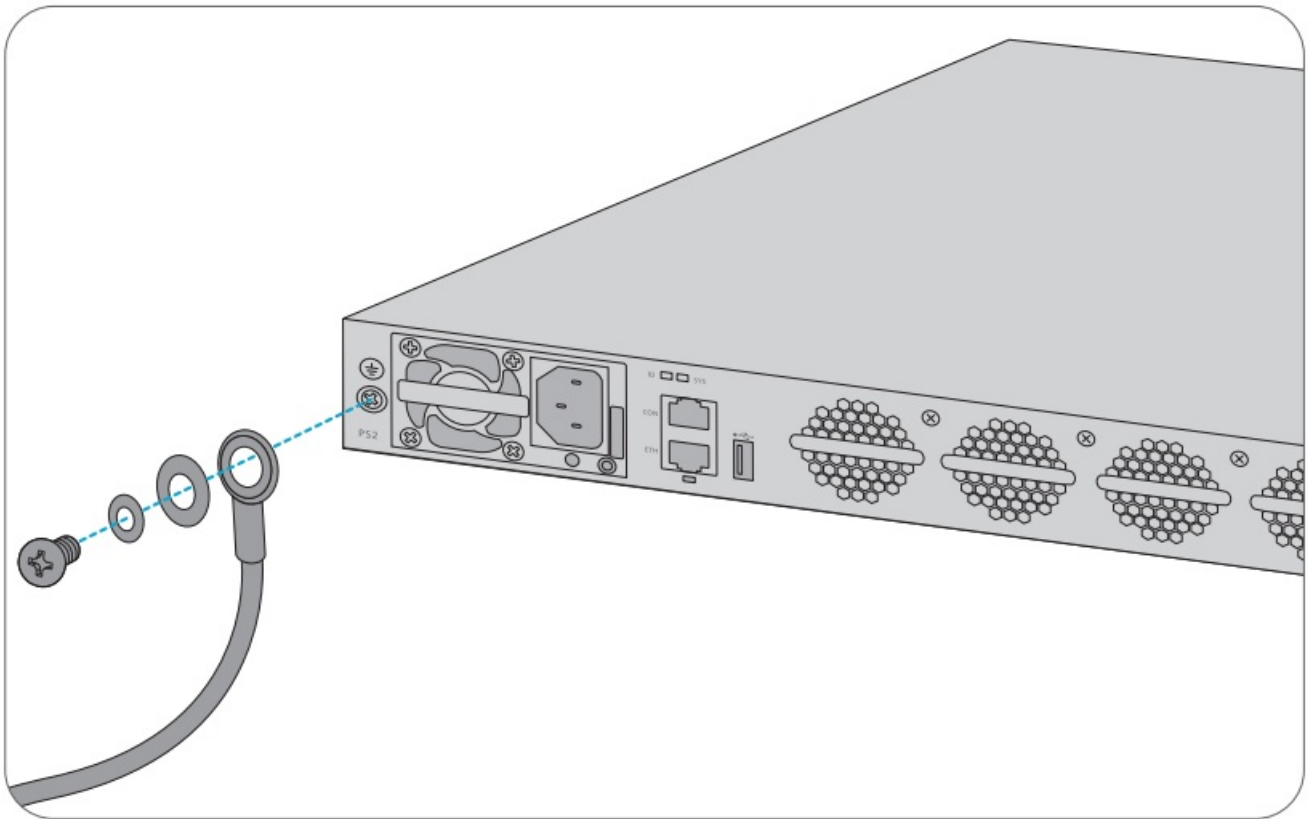
2. Fix the rear mounting brackets to the rack.

3. Push the switch slightly into the rack along the sliding rails, and fix the other end of front mounting brackets upon the front hold strip of rack using screws and matching 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 back panel with the washer and screws.

NOTE:

1. Only S5850-48S8C-DC can be grounded.
2. The earth connection cannot be removed unless all connections are disconnected.

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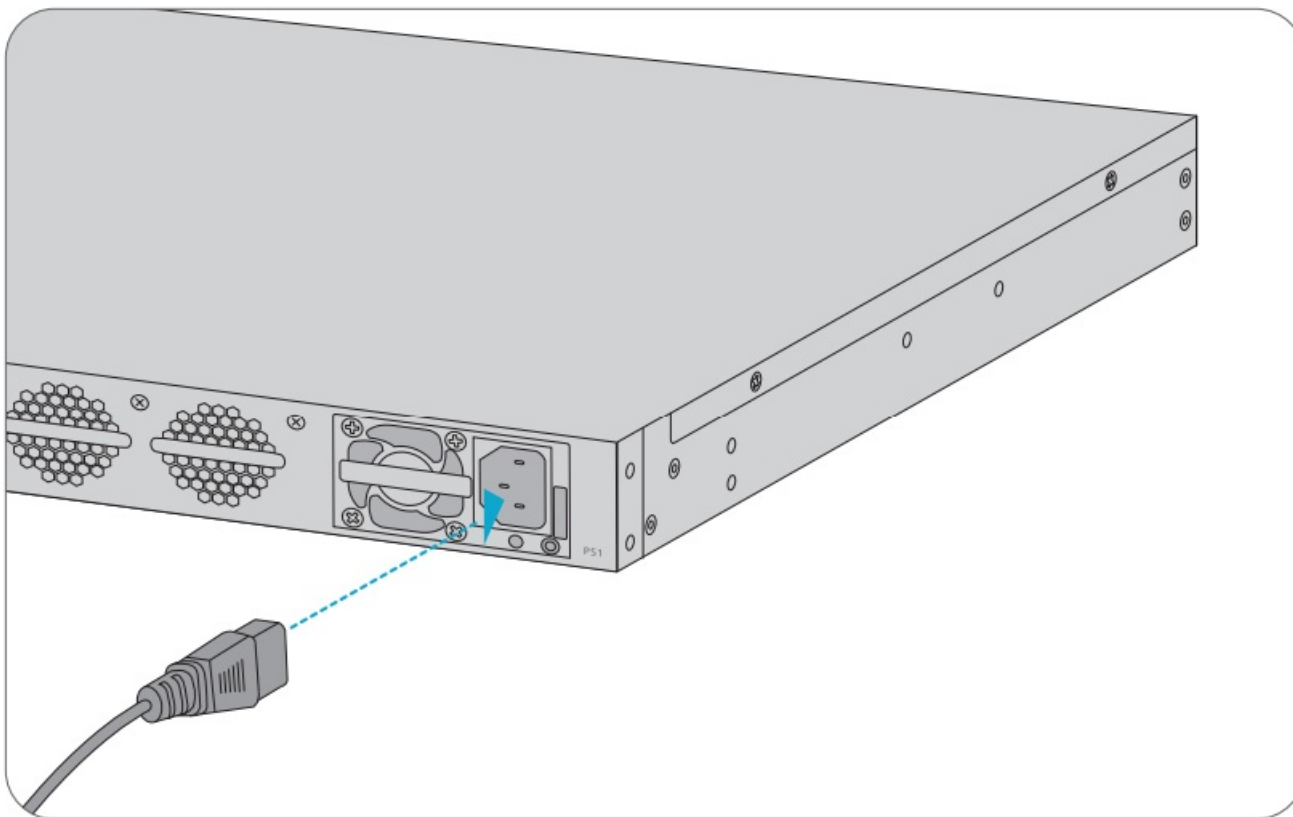
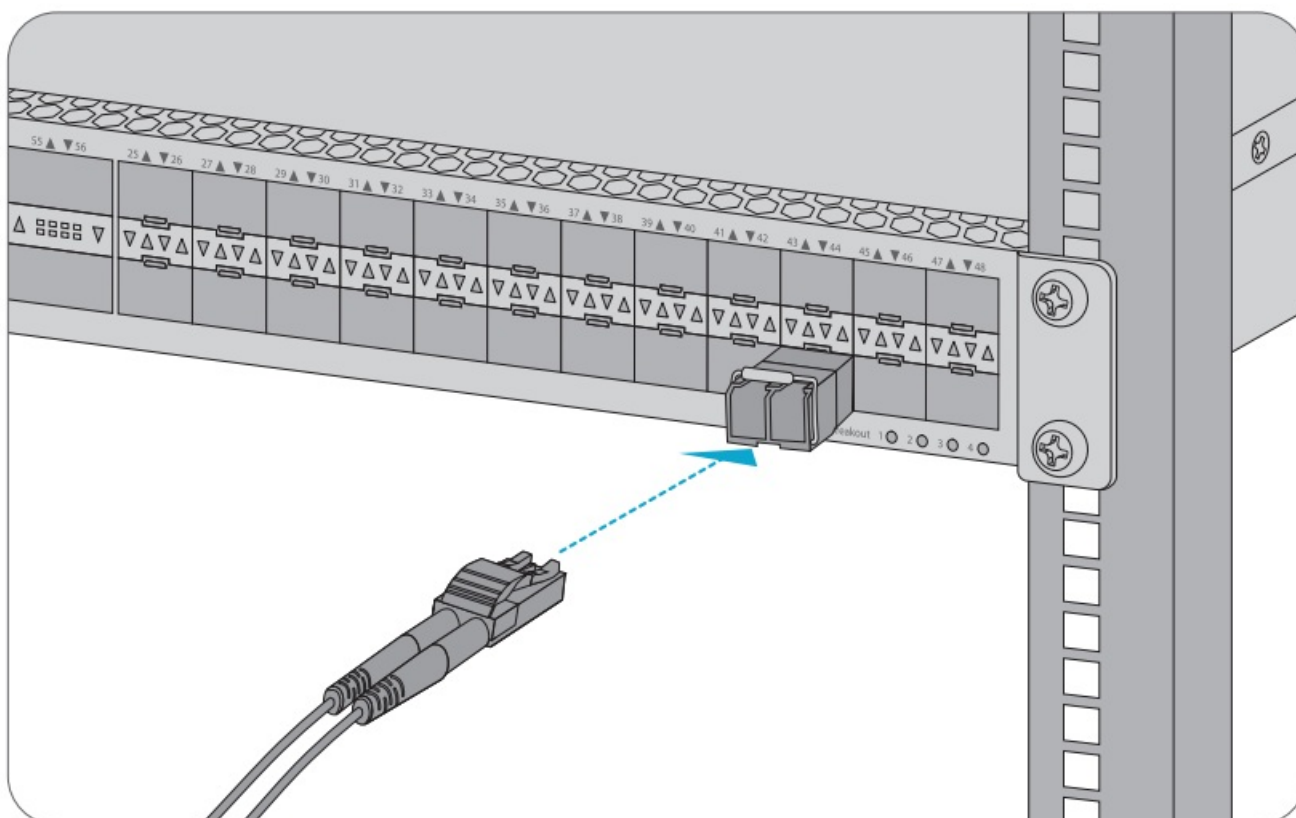1. Plug the AC power cord into the power port on the back of the switch.
2. Connect the other end of the power cord to a power source.

   (The S5850-48S8C-DC power port is different from the power ports of S5850-48S8C and S5850-48B8C.)

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

Connecting the SFP28 Ports

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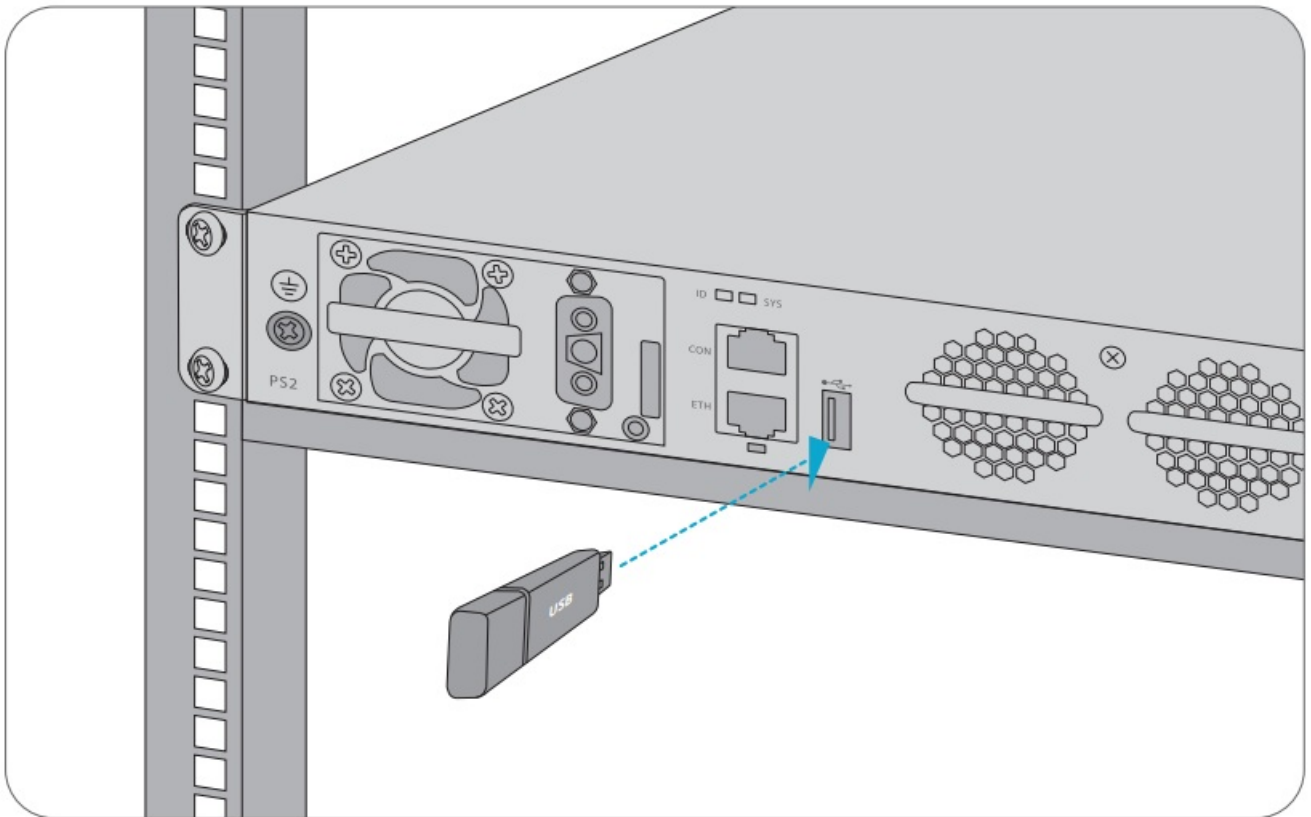
Connecting the QSFP28 Ports
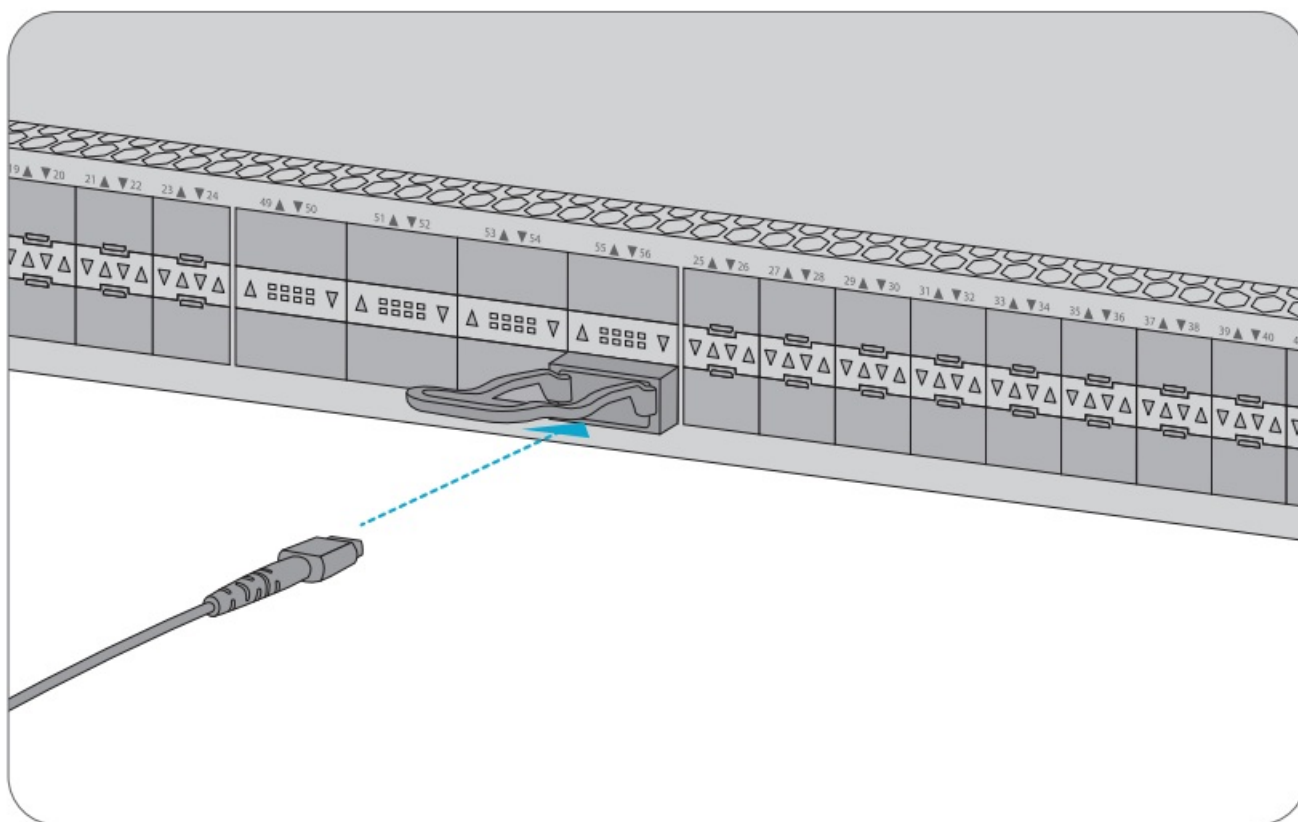
1. Plug the compatible QSFP28 transceiver into the QSFP28 port.
2. Connect a fiber optic cable to the fiber transceivers. Then connect the other end of the cable to other fiber devices.

Connecting the USB port

1. Connect the DB9 female connector of the mini USB to RS-232 serial port on the computer.
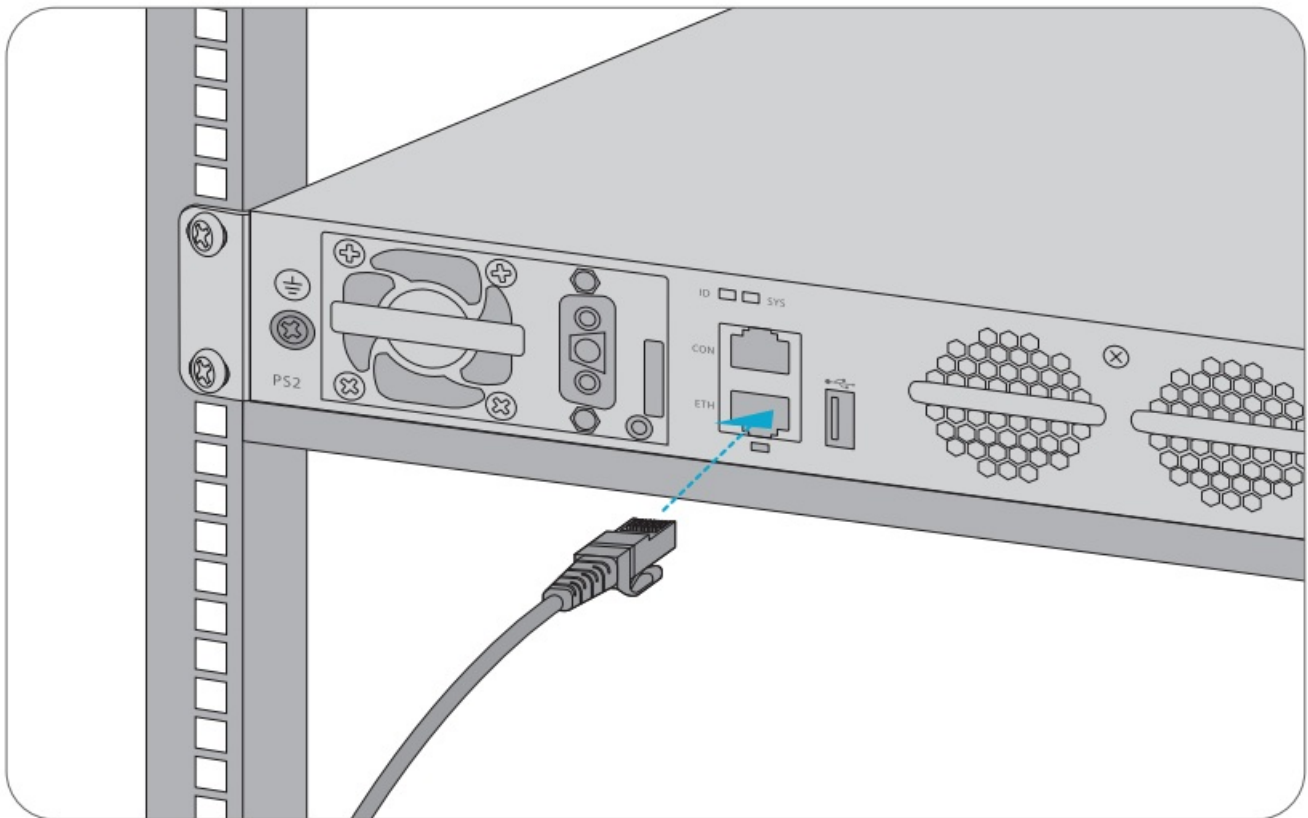2. Insert the mini USB connector into USB port on the back of the switch.

Connecting the Console Port
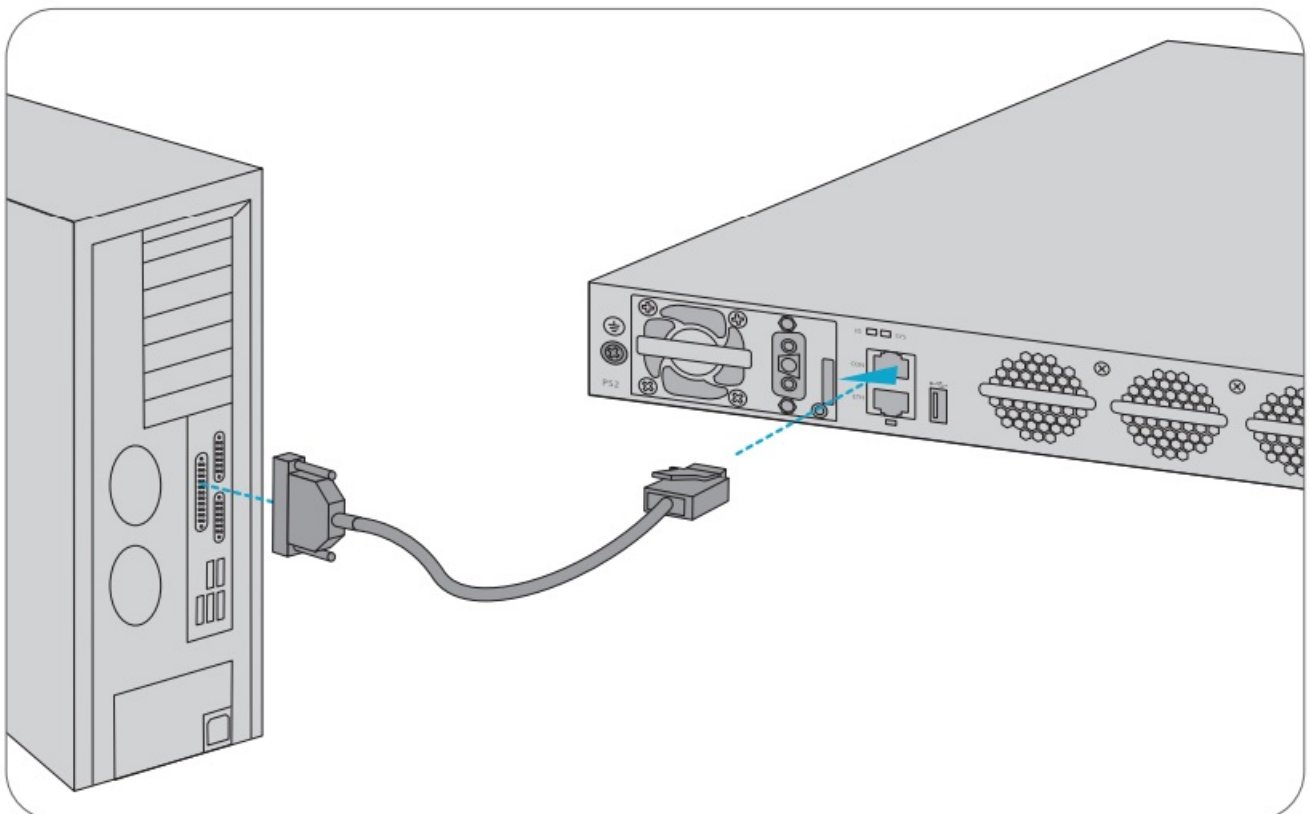
1. Insert the RJ45 connector of the console cable into the RJ45 console port on the back of the switch.

2. Connect the other end of the console cable to the RS-232 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 ETH port on the back of the switch.

Configuring the Switch

Configuring the Switch Using the Web-based Interface
Step 1: Connect the computer to the Management 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.). Set the subnet mask of the computer to 255.255.255.0

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

Step 4: Click sign in to display 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 simulation software such as HyperTerminal on the computer.

Step 3: Set the parameters of the HyperTerminal: 115200 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

Loading Failure Troubleshooting

After loading fails, the system will keep running in the original version. At this time, users should re-check if physical port connection are good rstly. If some ports are not connected, then re-connect them to ensure that physical connections are correct, 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 there are input errors, correct them and re-load.

User Password Lost Troubleshooting

If system password is lost or forgotten, the following method can be used to reset the password:

1. Connect the console port of the switch to the computer through the console cable.

2. Press ctrl + b to enter the Uboot mode.

3. Start the system with an empty configuration file with no password.

4. Bootrom# boot_flash_nopass

5. Bootrom# Do you want to revert to the default config file?[Y|N|E]:

   ❗**NOTE:** Forgetting your username and password and restoring them through console port may cause configuration loss and business interruption. Please remember your username and password.

Power System Troubleshooting

According to the power indicator on the front panel, the switches can be used to determine whether the power system of the switch is faulty. If the power system is working normally,the power indicators should remain lit. If the power indicator is unlit, the power supply system is not working. Please check the following:

1. Whether the switch power cable is connected correctly.

2. Whether the power supply of the switch matches the required power supply.

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 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: S5850 series switch enjoys 5 years limited warranty against defects in materials or workmanship. For more details about warranty, please check at **https://www.fs.com/policies/warranty.html**

Return: If you want to return item(s), information on how to return can be found at **https://www.fs.com/policies/day_return_policy.html**

Documents / Resources

	FS S5850 Series Managed L3 Data Center Switches [pdf] User Guide S5850-48S8C, S5850-48B8C, S5850-48S8C-DC, S5850 Series Switches, S5850 Series, Switches, S5850 Series Managed L3 Data Center Switches, S5850 Series Managed L3 Switches, Managed L3 Data Center Switches, L3 Data Center Switches, L3 Switches, Data Center Switches

References

- **FS.com - Data Center, Enterprise, Telecom**
- **Quality Certification - FS.com**
- **Ein weltweit führender Anbieter von Hochgeschwindigkeits-Konnektivitätsgeräten und -lösungen. -**

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