FS COM S5850-24S2C-DC 24 Port Managed L3 Routing Switch User Guide

S5850-24S2C-DC
MANAGED L3 ROUTING SWITCH
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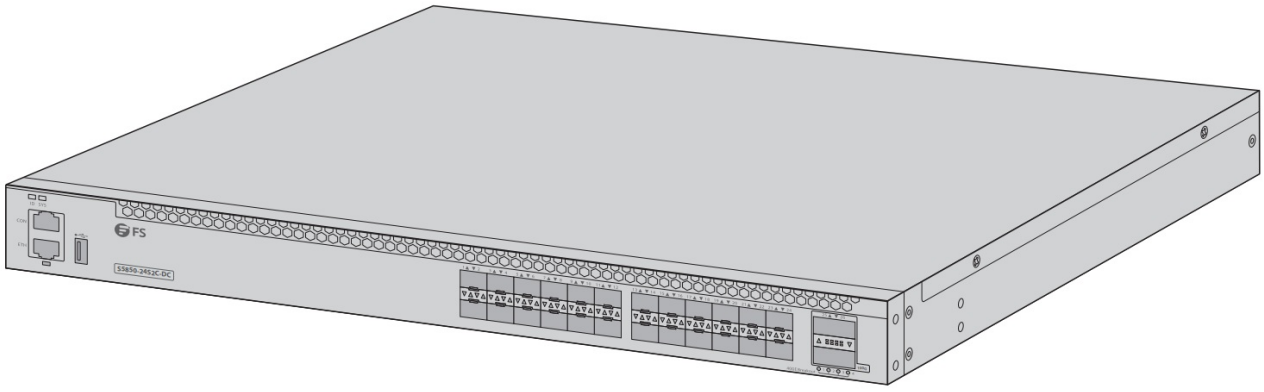

Quick Start Guide V1.0
Quick Start Anleitung

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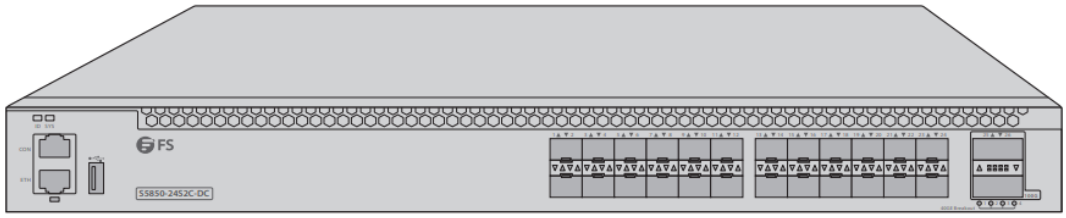
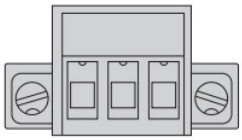
Introduction

Thank you for choosing the S5850-24S2C-DC Switch. This guide is designed to familiarize you with the layout of the switch and describes how to deploy the switch in your network.

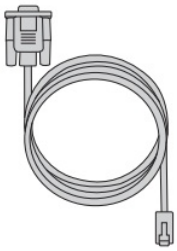


S5850-24S2C-DC

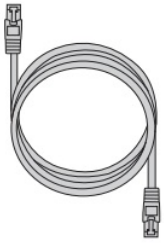
Accessories



Terminal Block Connector x 2

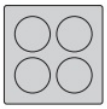


Console Cable x1



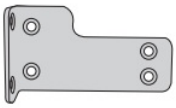
Cat5e Cable x1

Grounding Cable x1



Rubber Pad x4

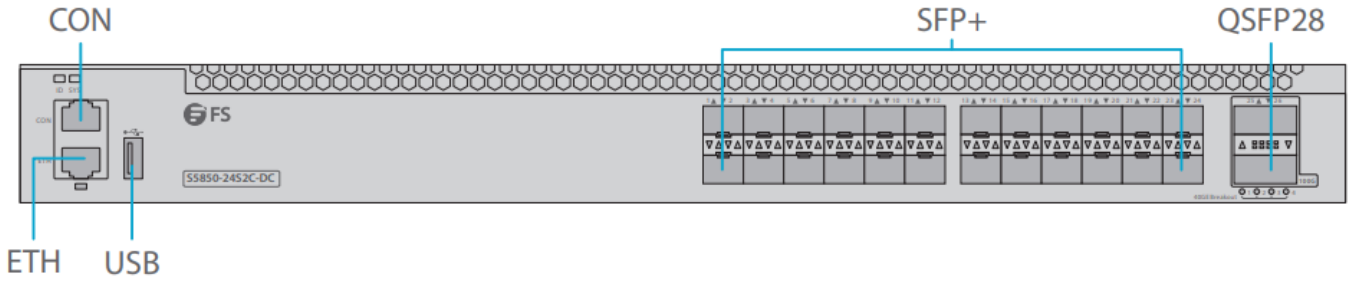
M4 Screw x8



Mounting Bracket x2

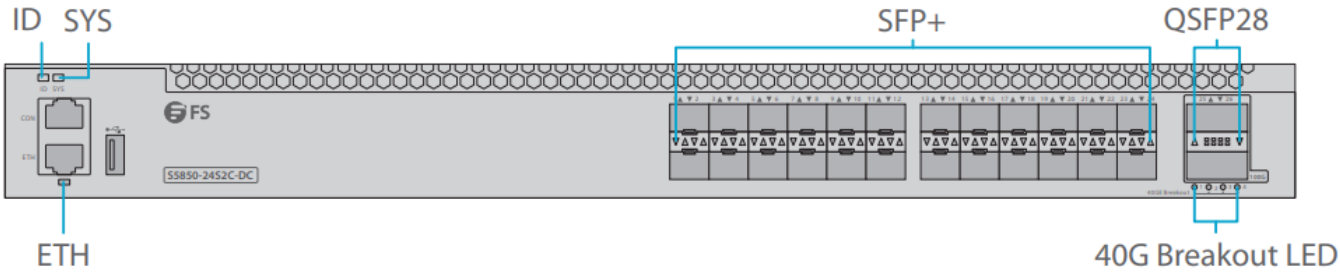
Hardware Overview

Front Panel Ports



Ports	Description
SFP+	SFP+ ports for 1/10G connection
QSFP28	QSFP28 ports for 40/100G connection
CON	An RJ45 console port for serial management
ETH	An Ethernet management port
USB	A USB management port for software and configuration backup and offline software upg rade

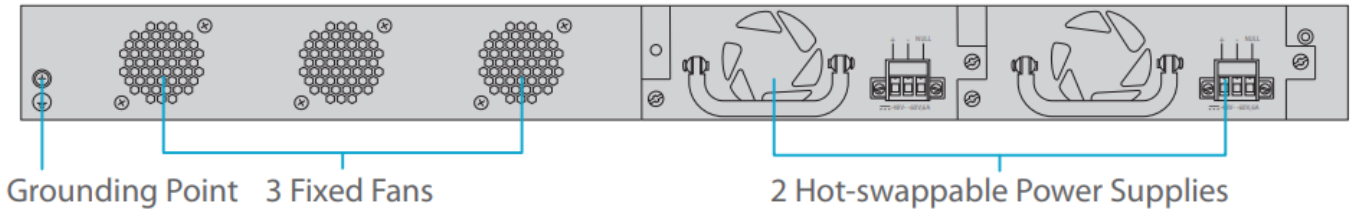
Front Panel LEDs



LEDs	Status	Description
ID	Blue	ID indication function enable.
	Off	ID indication function disable.
SYS	Green	The System is normally running.
	Amber	The system occurs alarm or error.
	Off	No power or no system runs or runs abnormally.
ETH	Green	Port is linked.
	Blinking Green	Port is receiving or transmitting packets.
	Off	Port is not linked.

LEDs	Status	Description
SFP+	Green	10G port is linked.
	Blinking Green	The SFP+ port is transmitting or receiving packets at 10G.
	Amber	1G port is linked.
	Blinking Amber	The SFP+ port is transmitting or receiving packets at 1G.
	Off	Port is not linked.
QSFP28	Green	40/100G port is linked.
	Blinking Green	The QSFP28 port is transmitting or receiving packets at 40/100G.
	Amber	10/25G port is linked.
	Blinking Amber	The QSFP28 port is transmitting or receiving packets at 10/25G.
	Off	Port is not linked.
Breakout	Loop Blinking	One or more 40/100G ports are breakout.
	Off	None of the 40/100G port is a breakout.

Back Panel



Installation Requirements

Before you begin the installation, make sure that you have the followings:

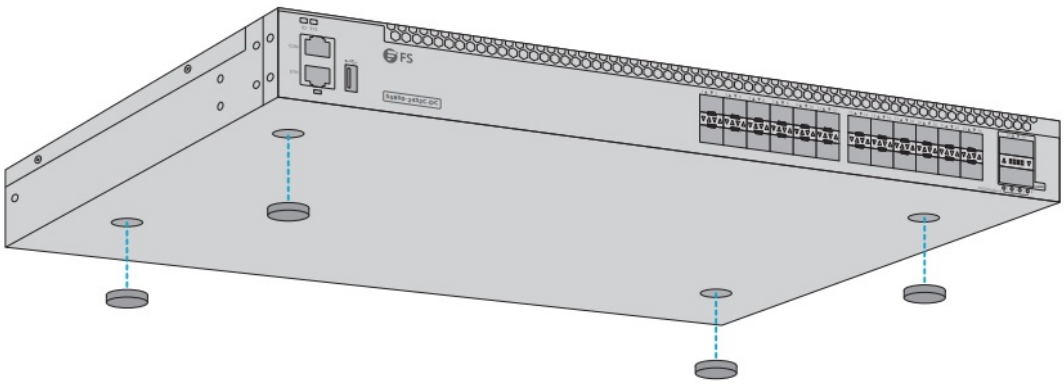
- Phillips screwdriver.
- M6 Screws.
- Standard-sized, 19″ wide rack with a minimum of 1U height available.
- Category 5e or higher RJ-45 Ethernet cables for connecting the network devices.

Site Environment:

- Do not operate it in an area that exceeds an ambient temperature of 45°C.
- The installation site must be well ventilated.
- Ensure that there is adequate air flow around the switch.
- 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 rack and working platforms are well earthed.

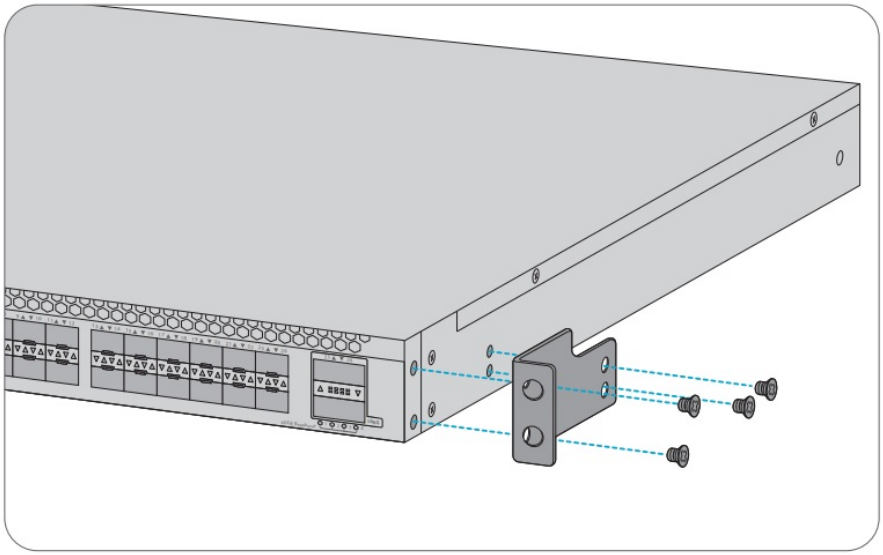
Mounting the Switch

Desk Mounting

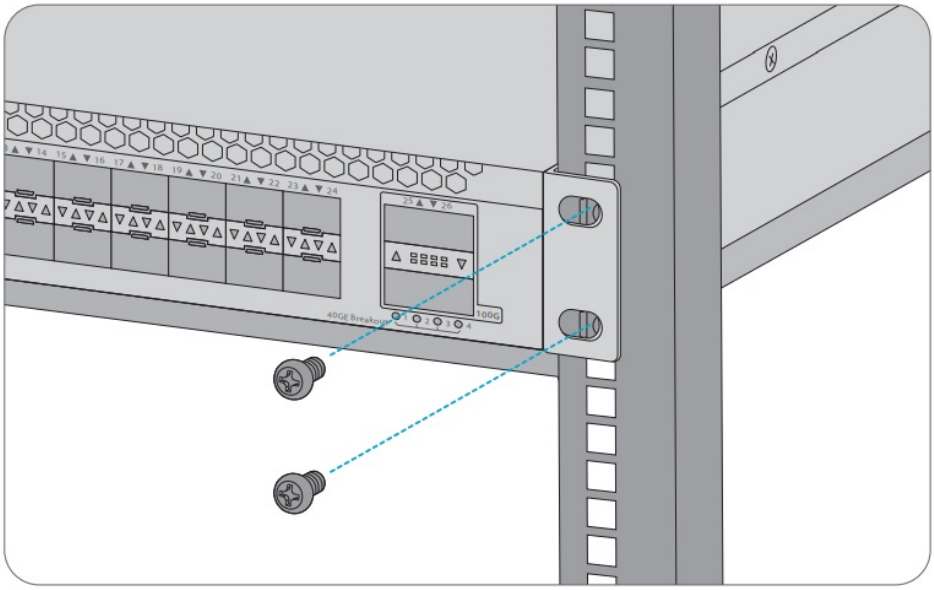


1. Attach four rubber pads to the bottom.
2. Place the chassis on a desk.

Rack Mounting

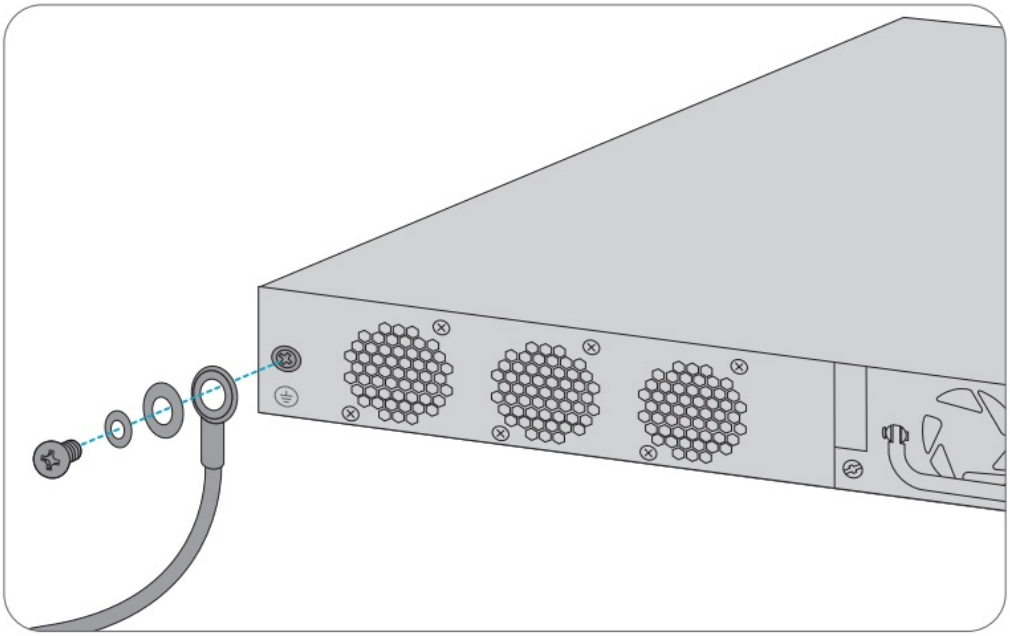


1. Secure the mounting brackets to the two sides of the switch with eight M4 screws.



2. Attach the switch to the rack using four M6 screws and cage nuts.

Grounding the Switch



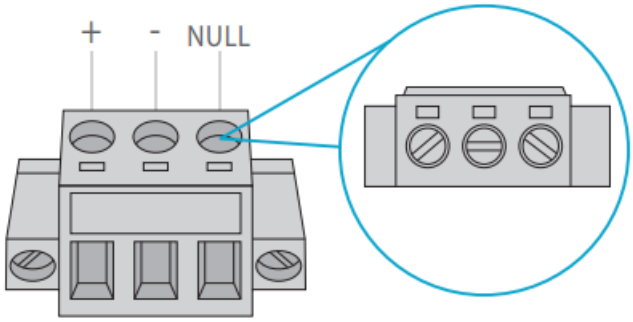
1. Connect one end of the grounding cable to a proper earth ground, such as the rack in which the switch is mounted.
2. Secure the grounding lug to the grounding point on the switch back panel with the washer and screws.

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

Connecting the Power

The front panel of the power supply indicates a DC inlet power socket and consists of one terminal block connector within 3 contacts. Please follow the steps below to insert the power wire.

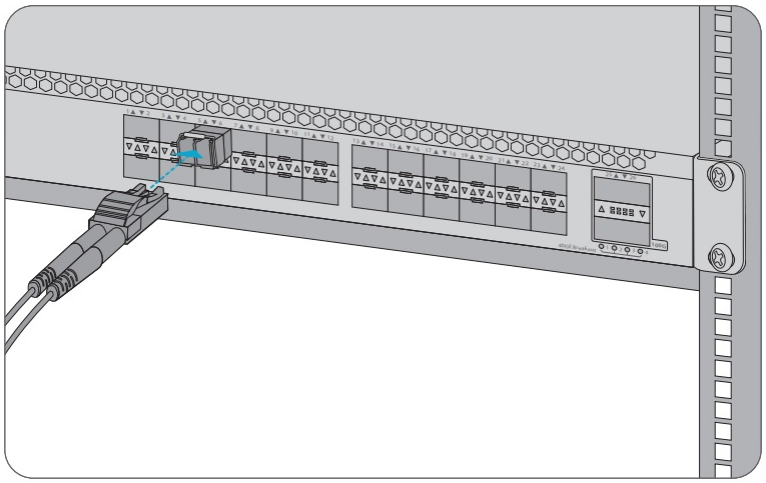
1. Insert positive/negative DC power wires into Contacts + and -.



NO.	Name	Description
1	+	Positive
2	–	Negative
3	NULL	Null

2. Tighten the wire-clamp screws to prevent the wires from loosening.

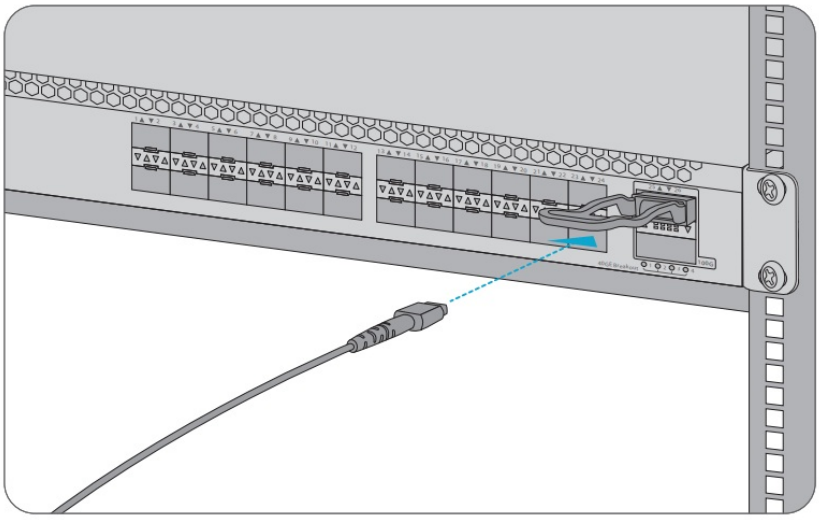
Connecting the SFP+ Ports



First install SFP+ transceivers and then connect the fiber optic cable to the transceiver ports, or directly connect DAC cables to the SFP+ slots.

CAUTION: Laser beams will cause eye damage. Do not look into bores of optical modules or optical fibers without eye protection.

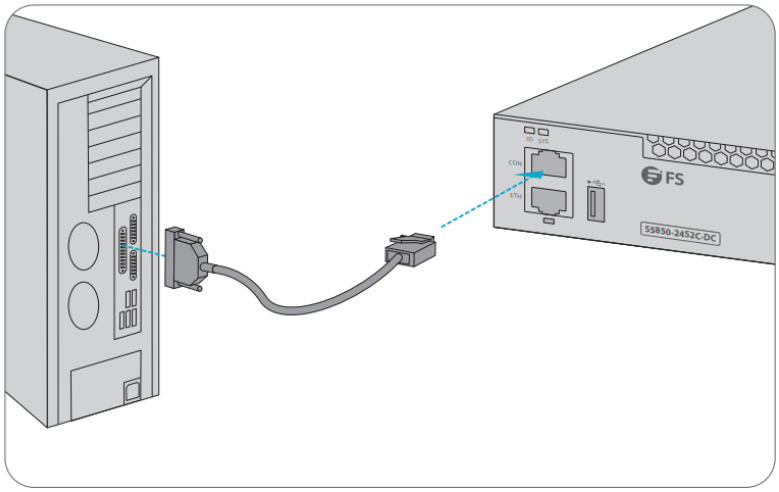
Connecting the QSFP28 Ports



First install QSFP28 transceivers and then connect the fiber optic cable to the transceiver ports, or connect DAC cables to the QSFP28 slots.

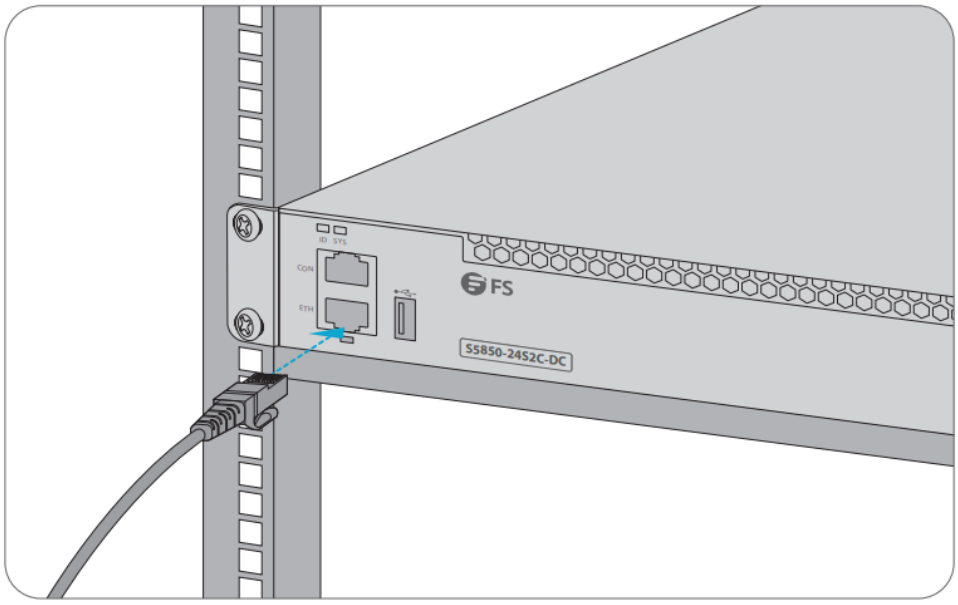
Connecting the Management Ports

Connecting the Console Port



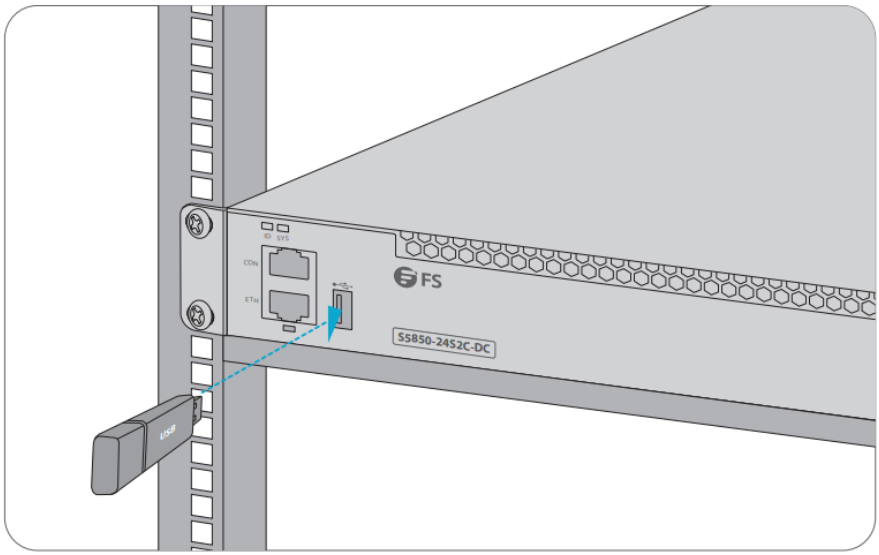
1. Insert the RJ45 connector of the console cable into the RJ45 console port on the front of the switch.
2. Connect the other end of the console cable to the RS-232 serial port on the computer.

Connecting the ETH Port



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

Connecting the USB Port

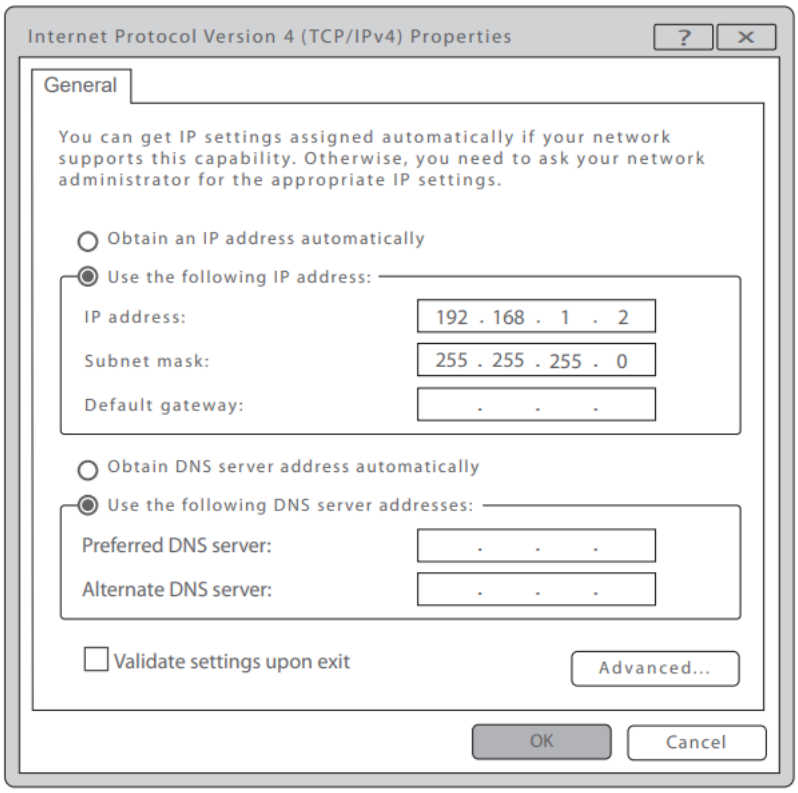


Insert the Universal Serial Bus (USB) flash disk to the USB port for software and configuration backup and offline software upgrade.

Configuring the Switch

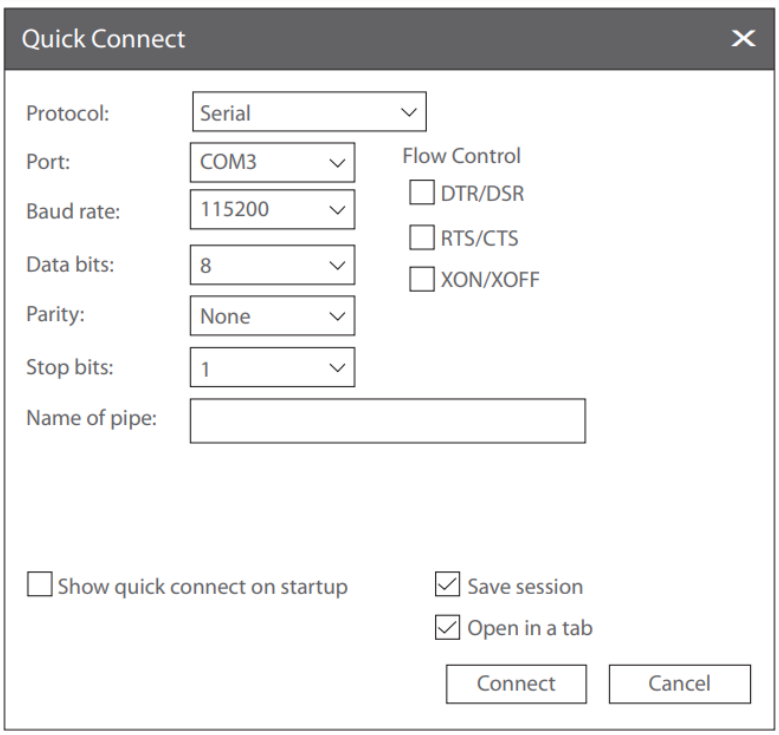
Configuring the Switch Using the Web-based Interface

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 the terminal 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 connections are good firstly. 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 the 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.

   Bootrom#boot_flash_nopass

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

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

Configuration System Troubleshooting

1. Make sure the power supply is normal and the console cable is properly connected.
2. Check if the console cable is the right type.
3. Check if the control cable driver is properly installed on the computer.
4. Ensure the parameters of the HyperTerminal are correct.

Support and Other 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

Warranty: S5850-24S2C-DC Switch enjoys 5 years 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**

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.

CAUTION:
Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

Responsible party (only for FCC matter)
FS.COM Inc.
380 Centerpoint Blvd, New Castle, DE 19720, United States
https://www.fs.com

CE

FS.COM GmbH hereby declares that this device is in compliance with the 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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CANICES-3(A)/NMB-3(A)
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Documents / Resources

	FS COM S5850-24S2C-DC 24 Port Managed L3 Routing Switch [pdf] User Guide S5850-24S2C-DC, 24 Port Managed L3 Routing Switch, L3 Routing Switch, Routing Switch, S5850-24S2C-DC, Switch

References

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