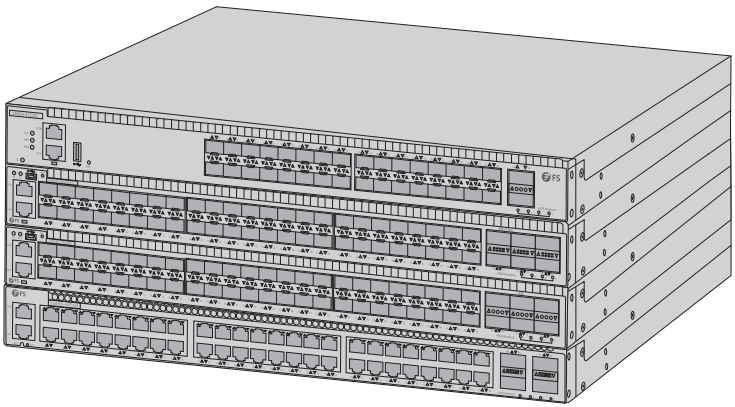


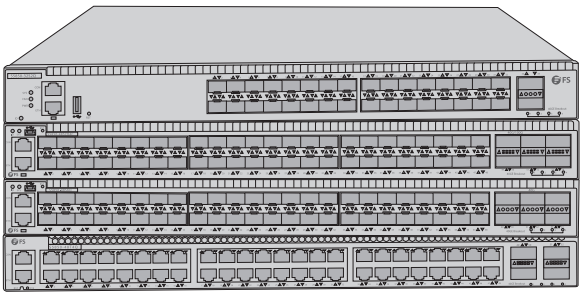
S5850 Series 10G/40G Switches

MANAGED L2/L3 DATA CENTER SWITCHES

Quick Start Guide V1.0

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.



S5850-32S2Q
OctoGate Bezeichnung:
SW-4003-P32-2QSFP

S5850-48S2Q4C
OctoGate Bezeichnung:
SW-4003-P48-6QSFP+

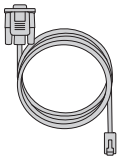
S5850-48S6Q
OctoGate Bezeichnung:
SW-4003-P48-6QSFP

S5850-48T4Q
OctoGate Bezeichnung:
SW-4003-P48-4QSFP

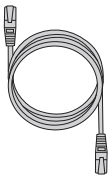
Accessories

S5850-32S2Q/S5850-48S6Q/S5850-48S2Q4C

Power Cord x2

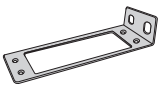


Console Cable x1



Cat5e Cable x1

Grounding Cable x1



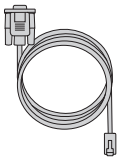
Mounting Bracket x2

Rubber Pad x4

M4 Screw x10

S5850-48T4Q

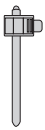
Power Cord x2



Console Cable x1

Grounding Cable x1

Mounting Bracket x2



Power Cord Tie x2

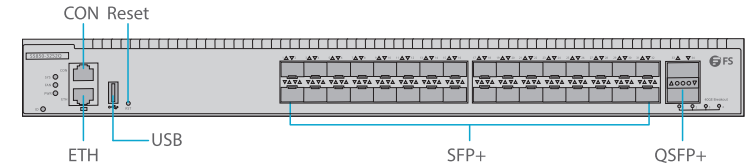
M4 Screw x8

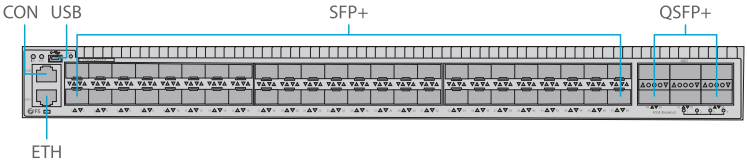
NOTE: The switch includes plug-in power supply (PSU) and fan tray modules that are installed into its chassis.

Hardware Overview

Front Panel Ports

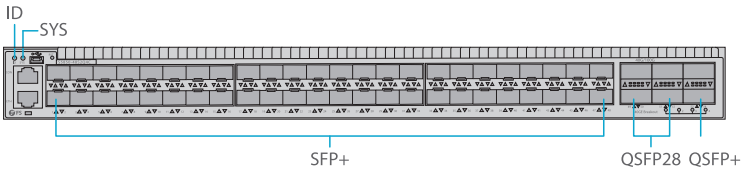
S5850-32S2Q/S5850-48S6Q





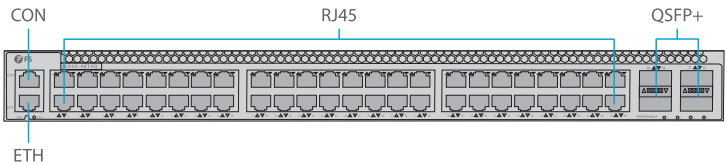
Ports	Description
SFP+	SFP+ ports for 1/10G transceivers
QSFP+	QSFP+ ports for 40G transceivers
CON	An RJ45 console port for serial management
ETH	An Ethernet management port
USB	A USB management port for software and configuration backup and offline software upgrade

S5850-48S2Q4C



Ports	Description
SFP+	SFP+ ports for 1/10G transceivers
QSFP+	QSFP+ ports for 40G transceivers
QSFP28	QSFP28 ports for 40/100G transceivers
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 upgrade

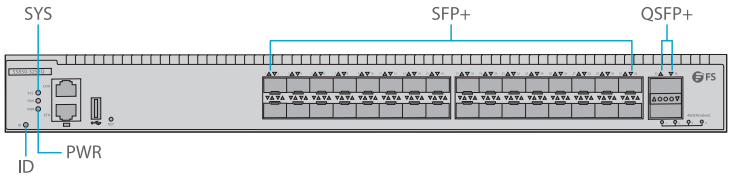
S5850-48T4Q



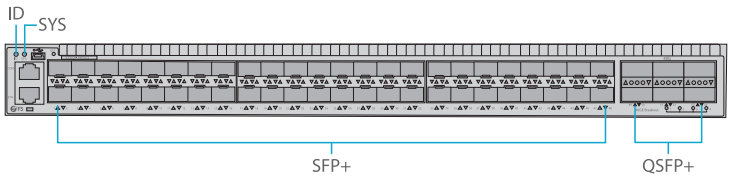
Ports	Description
RJ45	10G BASE-T ports for Ethernet connection
QSFP+	QSFP+ ports for 40G transceivers
CON	An RJ45 console port for serial management
ETH	An Ethernet management port

LEDs

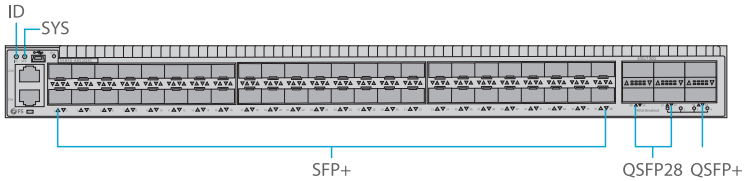
S5850-32S2Q



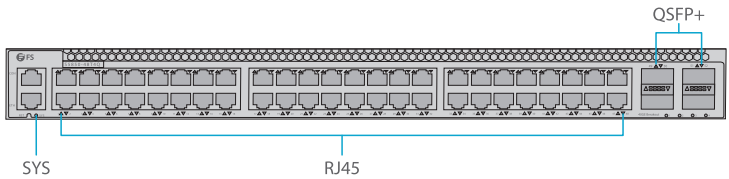
S5850-48S6Q



S5850-48S2Q4C



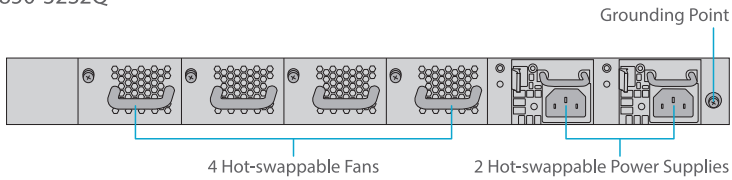
S5850-48T4Q



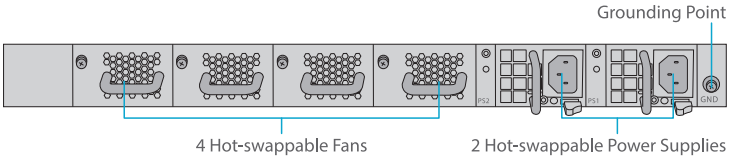
LEDs	Status		Description
SYS	Green	On	System is abnormal.
		Blinking Quickly	System is running in u-boot mode.
		Blinking Slowly	System is running normally.
	Amber	On	System occurs alarm or error.
		Blinking Quickly	System is initial in u-boot mode.
		Blinking Slowly	System software is in initial state.
	Off		No power or no system runs or runs abnormally.
PWR	Green	On	Power supply is ok.
	Amber	On	Power supply is abnormal.
	Off		Power supply is absent or single power supply is abnormal.
ID	Blue		ID indication function enable.
	Off		ID indication function disable.
ETH	Green	On	Port is linked.
		Blinking	Port is receiving or transmitting packets.
		Off	Port is not linked.
10G Base-T	Green	On	Port is linked.
		Blinking	Packets are receiving or transmitting.
SFP+	Green	On	Port is linked.
		Blinking	Packets are receiving or transmitting.
		Off	Port is not linked.
	Amber (Only S5850-48T4Q)	On	Port is linked at 10/100/1000/2500M.
		Blinking	Packets are receiving or transmitting at 10/100/1000/2500M.
		Off	Port is not linked.
QSFP+	Green	On	Port is linked.
		Blinking	Packets are receiving or transmitting.
		Off	Port is not linked.
	Amber (Only S5850-48T4Q)	On	Port is linked at 10G.
		Blinking	Packets are receiving or transmitting at 10G.
		Off	Port is not linked.
QSFP28	Green	On	Port is linked.
		Blinking	Packets are receiving or transmitting.
		Off	Port is not linked.

Back Panels

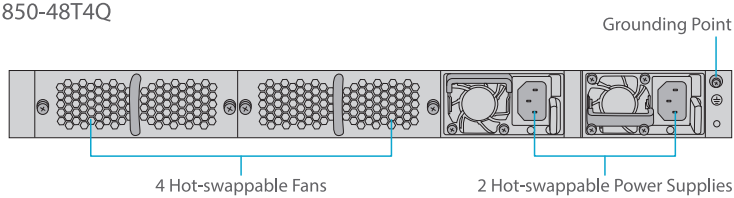
S5850-32S2Q



S5850-48S6Q / S5850-48S2Q4C



S5850-48T4Q



Installation Requirements

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

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

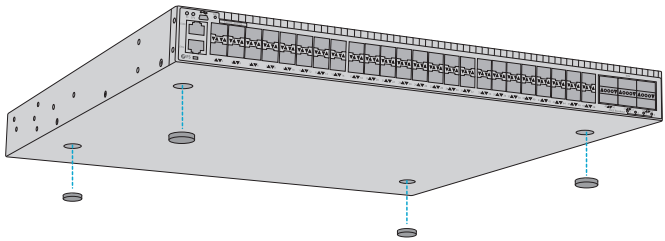
Site Environment:

- 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.

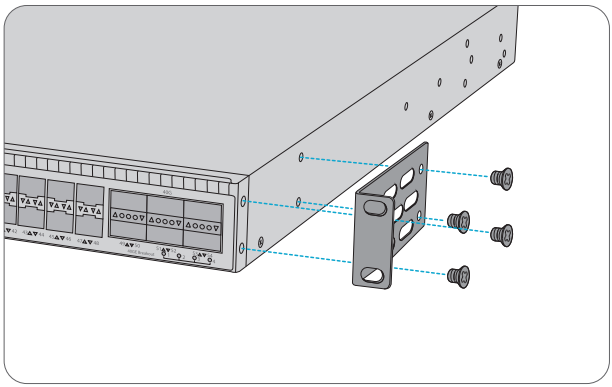
Mounting the Switch

Desk Mounting

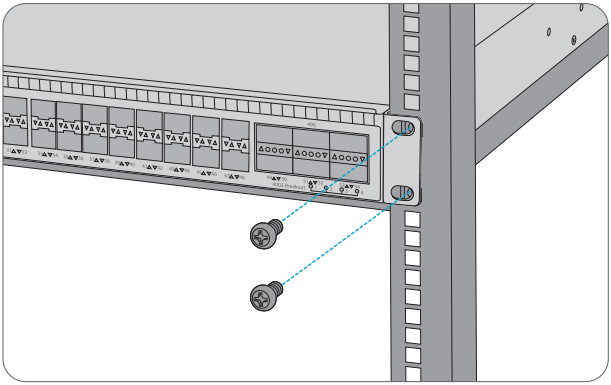


1. Attach four rubber pads to the bottom.
2. Place the chassis on a desk.

Rack Mounting

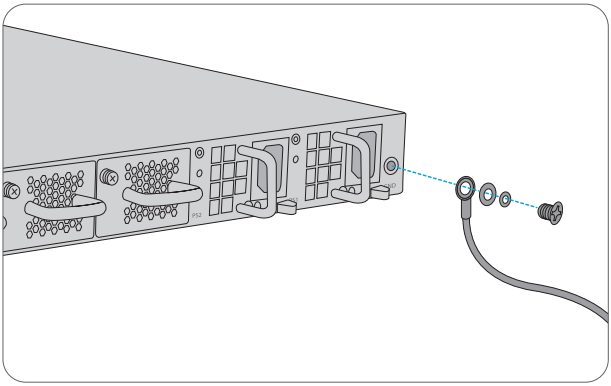


1. Secure the mounting bracket to the two sides of the switch with eight M4 screws.



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

Grounding the Switch

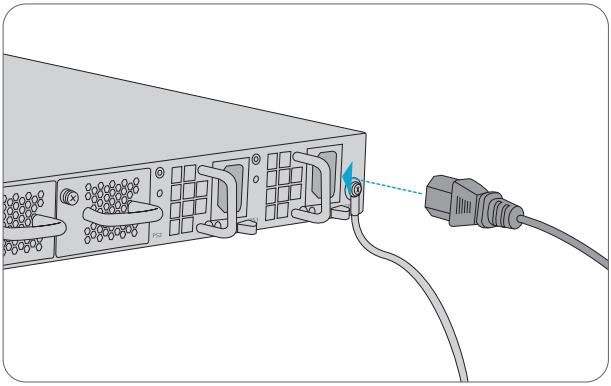


1.Connect one end of the grounding cable to a proper earth ground, such as the rack in which the switch is mounted.

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

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

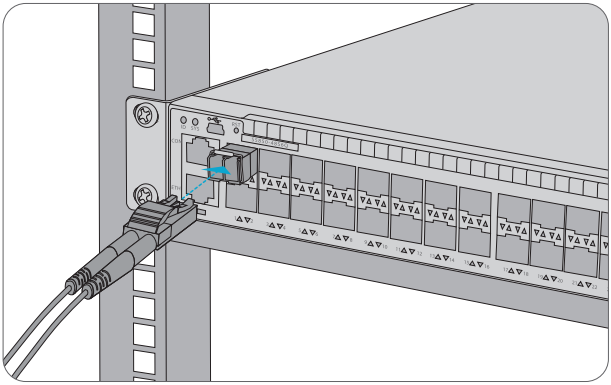
Connecting the Power



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 an AC power source.

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

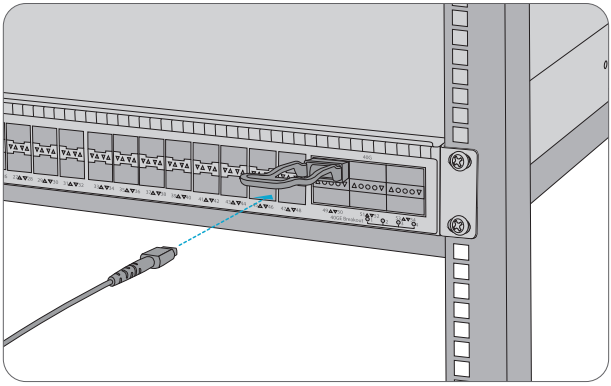
Connecting the SFP+ Ports



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

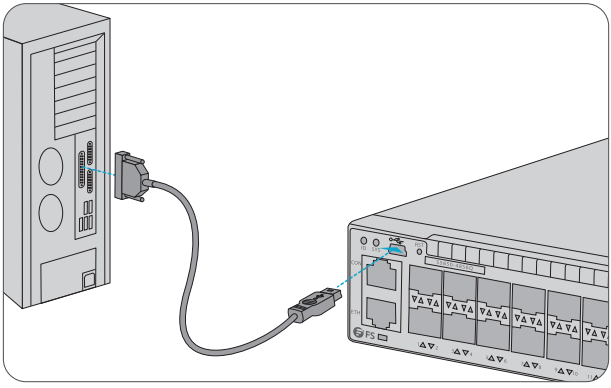
CAUTION: Laser beams will cause eye damage. Do not look into bores of optical modules or optical fibers without eye protection.

Connecting the QSFP+ Ports



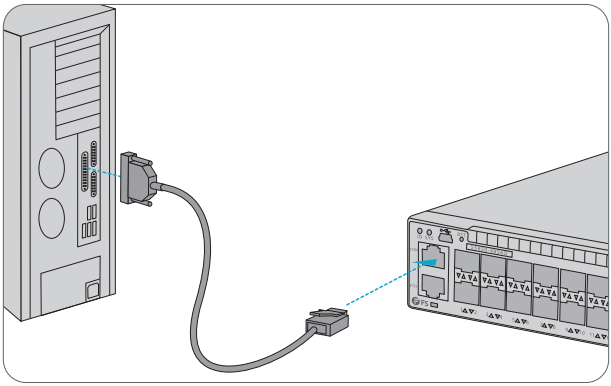
First install QSFP+ transceivers and then connect fiber optic cabling to the transceiver ports, or connect DAC cables to the QSFP+ slots.

Connecting the USB Port



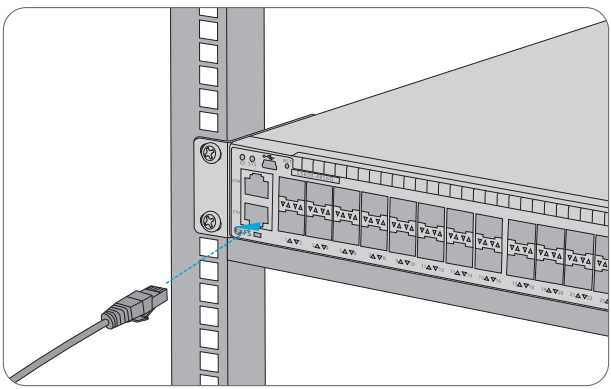
1. Connect the DB9 female connector of the mini USB to RS-232 cable to RS-232 serial port on the computer.
2. Insert the mini USB connetor into the USB port on the front of the switch.

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

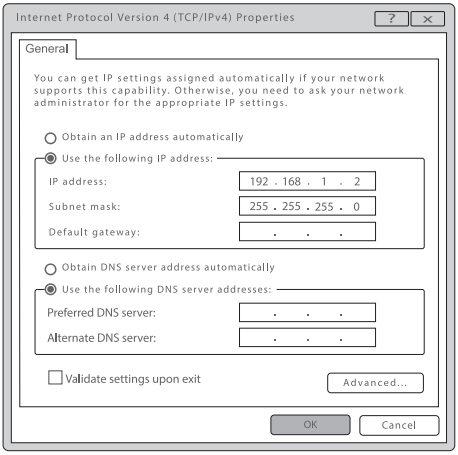
Configuring the Switch

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**.

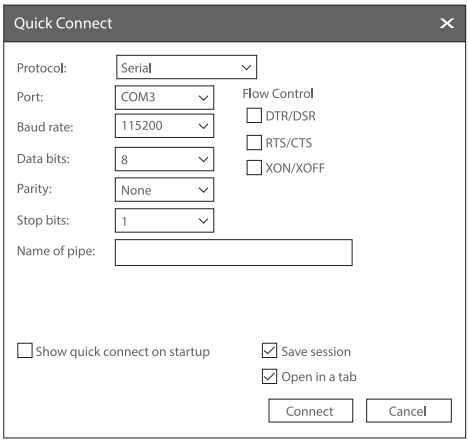
Step 4: Click **Sign in** to display the web-based configuration page.

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

- Connect the console port of the switch to the computer through the console cable.
- Press ctrl + b to enter the Uboot mode.
- 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 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 supply 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:

- Whether the switch power cable is connected correctly.
- Whether the power supply of the switch matches the required power supply.

Support and Other Resources

- Download https://www.fs.com/download.html
- Help Center https://www.fs.com/service/help_center.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 Switches enjoy 5 years limited warranty against defect 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

Q.C. PASSED