FS
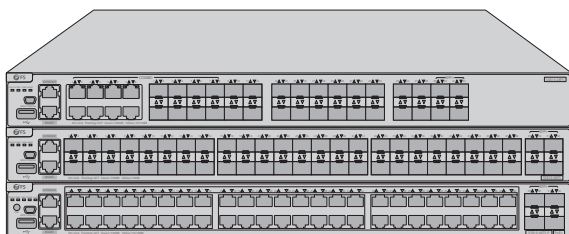
S5810 Series Switches

MANAGED L2/L3 ENTERPRISE SWITCHES

Quick Start Guide V1.0

Introduction

Thank you for choosing S5810 Series Switches. This guide is designed to familiarize you with the layout of the switch and describes how to deploy the switch in your network.

S5810-28FS

S5810-48FS

S5810-48TS-P

Accessories

S5810-28FS/S5810-48FS/S5810-48TS-P

Power Cord x2

Mini Console Cable x1

Grounding Cable x1

Rubber Pad x4
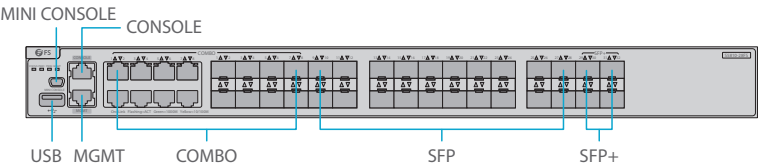

Mounting Bracket x2

M4 Screw x8

NOTE: S5810 series switches have dust plugs delivered with them. Keep the dust plugs properly and use them to protect idle optical ports.
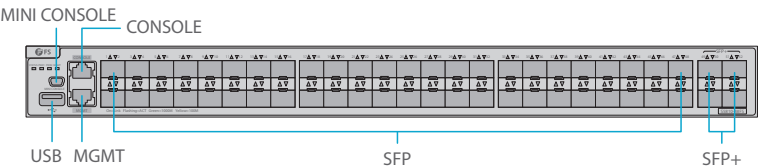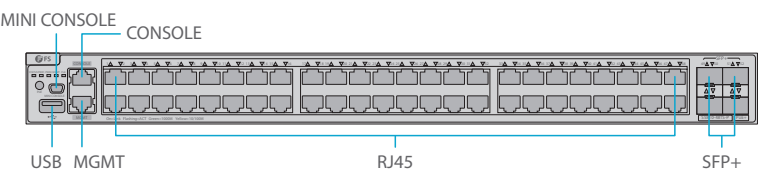
Hardware Overview

Front Panel Ports

S5810-28FS

MINI CONSOLE   CONSOLE

USB MGMT   COMBO   SFP   SFP+

S5810-48FS

MINI CONSOLE   CONSOLE

USB MGMT   SFP   SFP+

S5810-48TS-P

MINI CONSOLE   CONSOLE

USB MGMT   RJ45   SFP+

Ports	Description
RJ45	10/100/1000BASE-T ports for Ethernet connection
COMBO	One RJ45 port and one SFP slot, with one port active at a time
SFP	SFP ports for 100M/1G connection
SFP+	SFP+ ports for 1/10G connection
MGMT	An out-of-band Ethernet management port
MINI CONSOLE	A serial port for installing the software driver

Ports	Description
CONSOLE	An RJ45 console port for serial management
USB	A USB management port for software and configuration backup and offline software upgrade

Front Panel Button

S5810-48TS-P
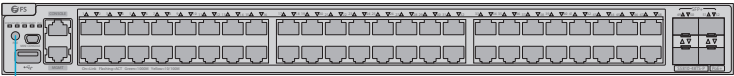
PoE

Button	Description
PoE	Switch the display mode between PoE mode and switch mode.

Back Panels
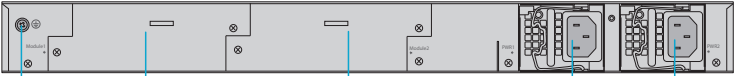
S5810-28FS

Grounding Point   Expansion Module Slot
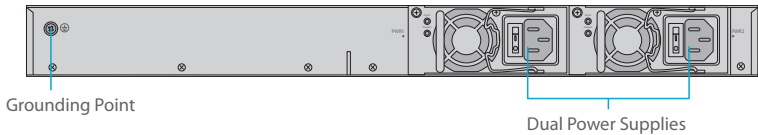
Dual Power Supplies
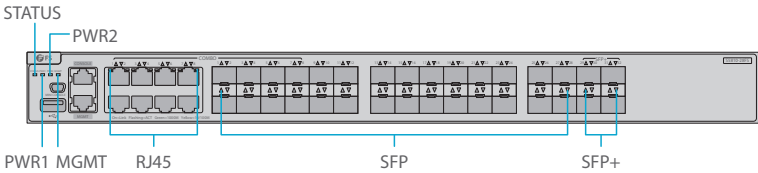
S5810-48FS

Grounding Point   Expansion Module Slot   Dual Power Supplies

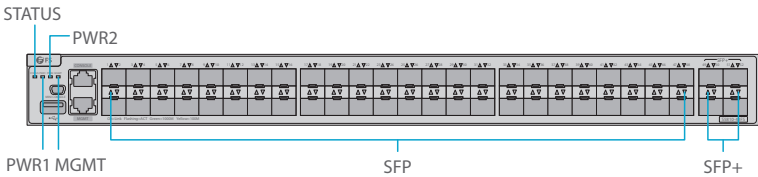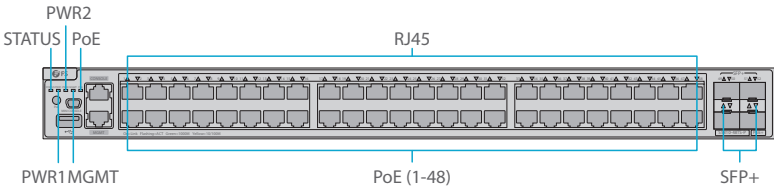S5810-48TS-P

Grounding Point

Dual Power Supplies

Front Panel LEDs

S5810-28FS

STATUS

PWR2

PWR1 MGMT RJ45 SFP SFP+

S5810-48FS

STATUS

PWR2

PWR1 MGMT SFP SFP+

S5810-48TS-P

PWR2

STATUS PoE RJ45

PWR1 MGMT PoE (1-48) SFP+

LEDs	Status	Description
STATUS	Off	The system is powered off.
	Blinking Green (3Hz)	The switch is being initialized with 3Hz blinking. Continuous blinking indicates errors.
	Blinking Green (10Hz)	Supports remote on/off to locate the switch.
	Solid Green	The switch is operational.
	Solid Yellow	Temperature warning, check the working environment of the switch immediately.
	Solid Red	Switch is faulty.
PWR1/PWR2	Off	The power module is not in place or not receiving power.
	Solid Green	The power module is connected and able to work.
	Solid Red	The redundant power is faulty or the AC power cord is not connected.
MGMT	Off	The port is not connected.
	Solid Green	The port is connected at 1000 Mbps.
	Blinking Green	The port is receiving or transmitting traffic at 1000 Mbps.
	Solid Yellow	The port is connected at 10/100 Mbps.
	Blinking Yellow	The port is receiving or transmitting traffic at 10/100 Mbps.
PoE	Solid Green	Indicates the switching state.
	Solid Yellow	Indicates the PoE state.
RJ45	Off	The port is not connected.
	Solid Green	The port is connected at 1000 Mbps.
	Blinking Green	The port is receiving or transmitting traffic at 1000 Mbps.
	Solid Yellow	The port is connected at 10/100 Mbps.
	Blinking Yellow	The port is receiving or transmitting traffic at 10/100 Mbps.

LEDs	Status	Description
PoE (1-48)	Off	PoE is not enabled.
	Solid Green	PoE is enabled. The port is operational.
	Solid Yellow	The port has a PoE fault of overload.
SFP	Off	The port is not connected.
	Solid Green	The port is connected at 1000 Mbps.
	Blinking Green	The port is receiving or transmitting traffic at 1000 Mbps.
	Solid Yellow	The port is connected at 100 Mbps.
	Blinking Yellow	The port is receiving or transmitting traffic at 100 Mbps.
SFP+	Off	The port is not connected.
	Solid Green	The port is connected at 1/10 Gbps.
	Blinking Green	The port is receiving or transmitting traffic at 1/10 Gbps.

Installation Requirements

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

- Phillips screwdriver.

- Standard-sized, 19" wide rack with a minimum of 1U height available.

- Category 5e or higher RJ-45 Ethernet cables, fiber optical cables and console cable for connecting network devices.

Site Environment :

- Do not operate it in an area that exceeds an ambient temperature of 50℃.

- 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, and humidity.

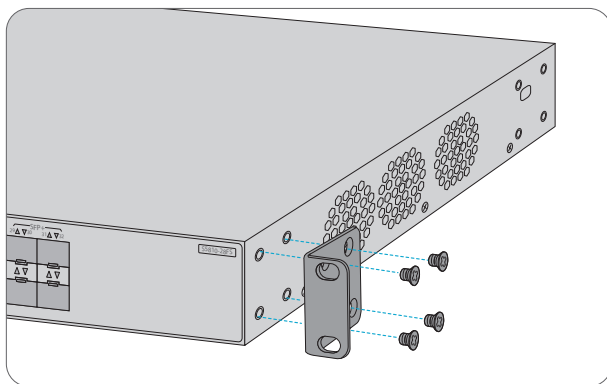- Ensure rack and working platforms are well earthed.

Mounting the Switch
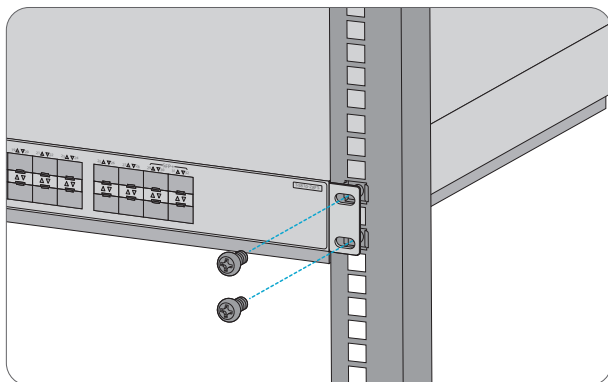
Desk Mounting
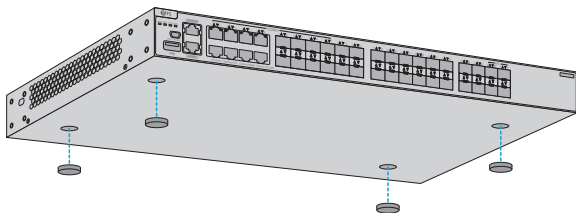
1. Attach four rubber pads to the bottom.
2. Place the chassis on a desk.
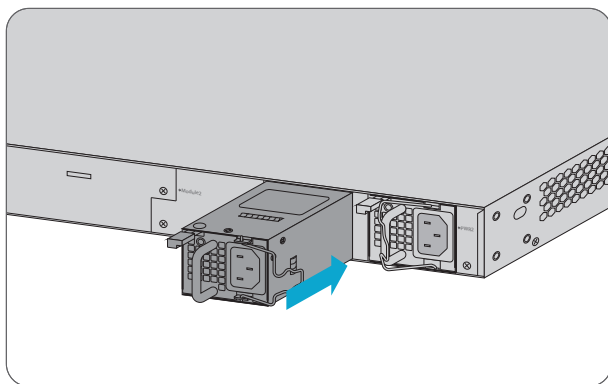
Rack Mounting

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.

Installing the Power Supply Module

1. Take a new power module out of the package and confirm the input mode and the input parameters of the power module match the requirements.

2. Remove the old power module and take the plane printed with power information as the top panel of the power module. Hold the handle of the power module with one hand, and hold the end of the power module with the other hand. Insert it into the chassis along the guide rail uprightly and slowly until it clicks into place, and make sure that it is in good contact with the power slot.

> **NOTE:** Insert the power module steadily. Please pay attention to the direction of the power panel to avoid wrong insertion. If the position is not proper, press the plug of the power module and hold on to the module handle with one hand to pull it out slowly, then re-insert it.
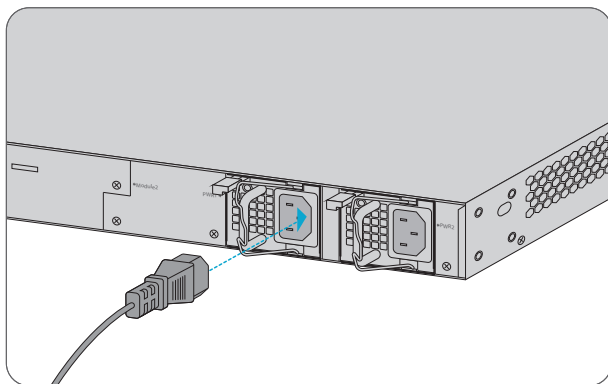
Grounding the Switch
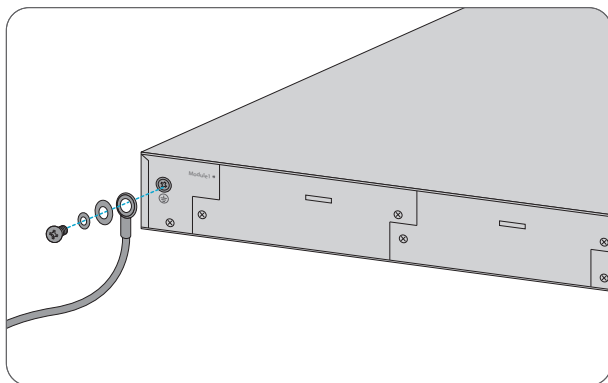
1. Connect one end of the grounding cable to a proper earth ground, such as the rack in which the switch is mounted.

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.
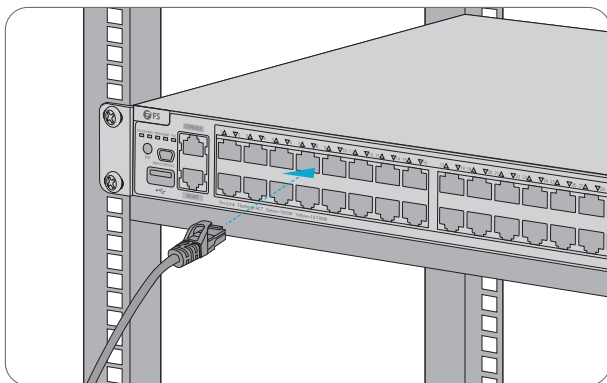
Connecting the Power

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.
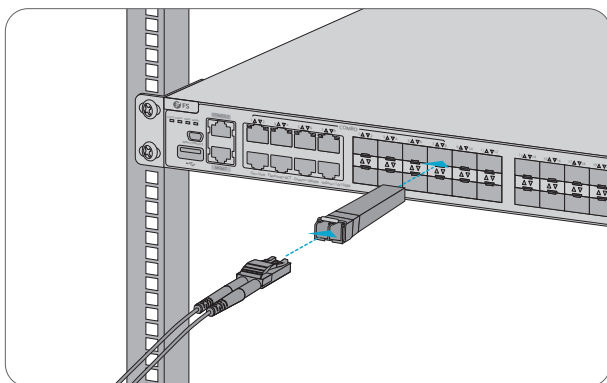
> ⚠ **WARNING:** Do not install power cable while the power is on.

Connecting the RJ45 Ports

1. Connect an Ethernet cable to the RJ45 port of IP cameras, IP telephone, Access Points (AP), or other network devices.

2. Connect the other end of the Ethernet cable to the RJ45 port of the switch.

Connecting the SFP/SFP+ Ports

1. Plug the compatible SFP/SFP+ transceiver into the SFP/SFP+ port.

2. Connect a fiber optic cable to the fiber transceiver. Then connect the other end of the cable to another fiber device.
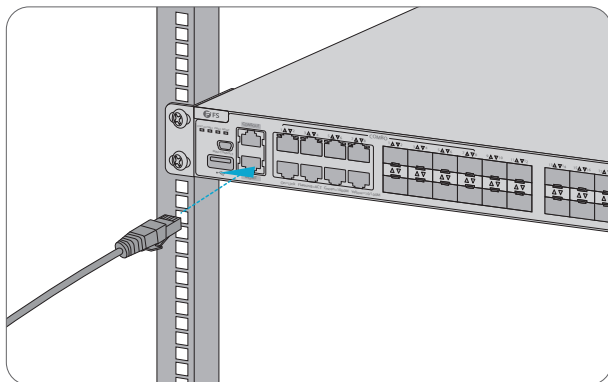
> **WARNING:** Laser beams will cause eye damage. Do not look into bores of optical modules or optical fibers without eye protection.

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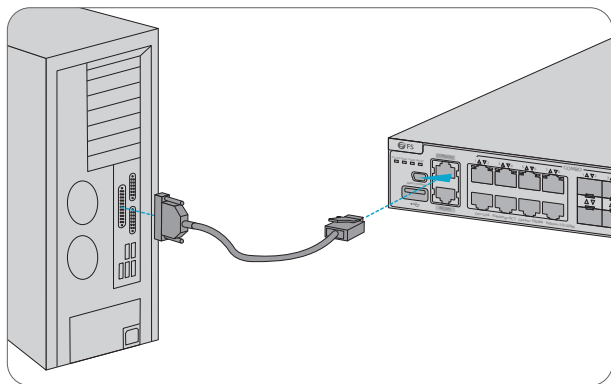
1. Insert the RJ45 connector into the RJ45 console port on the front of the switch.

2. Connect the DB9 female connector of the console cable to the serial port on the computer.

Connecting the MGMT Port

1. Connect one end of a standard RJ45 Ethernet cable to a computer.

2. Connect the other end of the cable to the MGMT port on the front of the switch.

Stacking the Switches
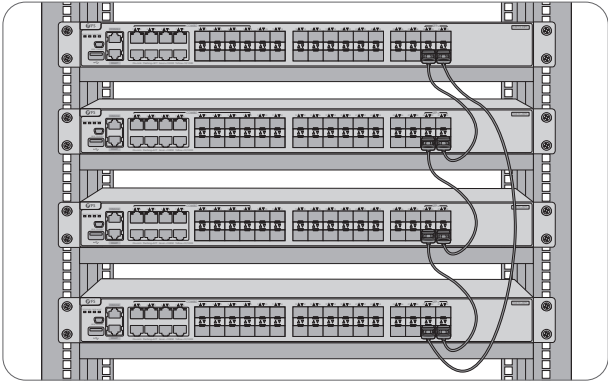
The S5810 series switches support stacking up to 8 switches between the same series together. The switch can be physically stacked using optical fiber cables connected to SFP/SFP+ transceivers or 1G/10G Direct Attach Cables (DAC). Only four SFP+ uplinks on the switch can be used for physical stacking.

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.)

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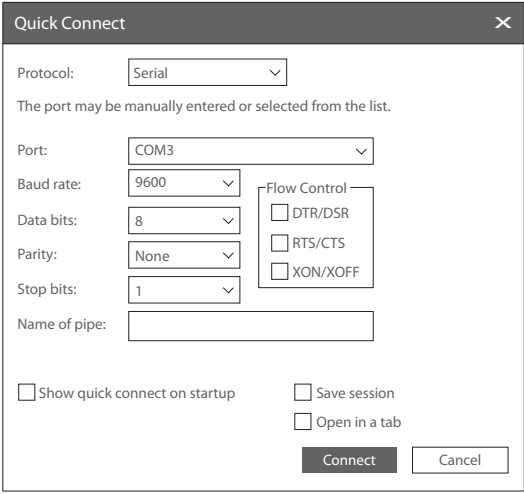

Step 4: Click **Login** to display the web-based configuration page.

Configuring the Switch Using the Console Port

Step 1: Connect a computer to the switch's console port using the console cable.

Step 2: Start the terminal simulation software such as HyperTerminal on the computer.

Step 3: Set the parameters of the HyperTerminal: 9600 bits per second, 8 data bits, no parity, 1 stop bit and no flow control.

Quick Connect	✕
Protocol:	Serial
The port may be manually entered or selected from the list.	
Port:	COM3
Baud rate:	9600
Data bits:	8
Parity:	None
Stop bits:	1
Name of pipe:	

Flow Control
☐ DTR/DSR
☐ RTS/CTS
☐ XON/XOFF

☐ Show quick connect on startup   ☐ Save session
☐ Open in a tab

Connect   Cancel

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

Troubleshooting

Power System Fault

The indicator on the front panel of host is OFF. The Status indicator of fan module is OFF, and the fan does not work. The indicator on the panel of the power module is OFF and the fan does not work. Please check the following:

First, disconnect the power cord of the power module.

1. Whether the cables of the cabinet have been correctly connected.
2. Whether the cabinet power sockets are loosely connected to power modules.
3. Whether the power modules are installed correctly.

Connecting the Switch Remotely Unsuccessfully

1. Test network connectivity through ping.
2. If the network is reachable, try restarting the switch.
3. Check if the corresponding service is enabled.

The Port is not Working, the LED Indicator is Off

1. Ensure the switch ports are in the no shutdown state.
2. Check if the switch can read the DDM information.
3. Check if the port speed setting is correct.
4. Try looping the switch cable.

Troubleshooting for Terminal No-show

After power-on, if the configuration terminal shows nothing, you can firstly check the following:

1. Whether serial port cables are connected correctly.
2. Whether the configuration of the serial port on the HyperTerminal.

Troubleshooting for Terminal Show Error Codes

If the configuration terminal shows error codes, it is likely that the terminal (such as HyperTerminal) parameters are set incorrectly. Please confirm the parameters of the terminal (such as HyperTerminal).

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: S5810 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