

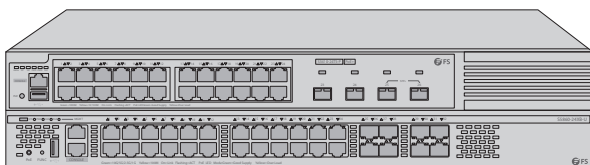
S3410-24TS-P/S5860-24XB-U

24-PORT GIGABIT L2+/L3 POE MANAGED SWITCHES

Quick Start Guide **V1.0**

Introduction

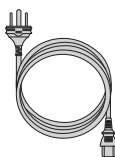
Thank you for choosing S3410-24TS-P & S5860-24XB-U POE Switches. This guide is designed to familiarize you with the layout of the switches and describes how to deploy the switches in your network.



S3410-24TS-P

S5860-24XB-U

Accessories



Power Cord x2



Grounding Cable x1



Rubber Pad x4



Mounting Bracket x2



M4 Screw x8

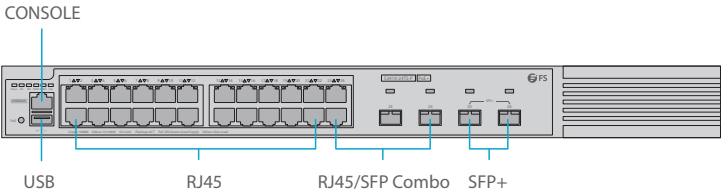


NOTE: S3410-24TS-P & S5860-24XB-U POE switches have dust plugs delivered with them. Keep the dust plugs properly and use them to protect idle optical ports.

Hardware Overview

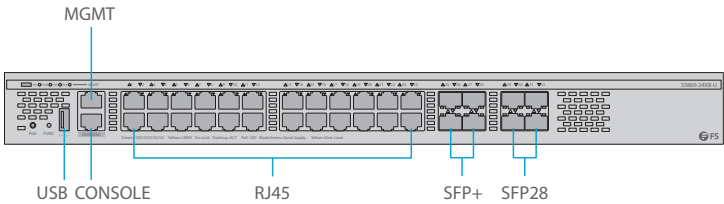
Front Panel Ports

S3410-24TS-P



Ports	Description
RJ45	10/100/1000BASE-T ports for Ethernet connection
RJ45/SFP Combo	One RJ45 port and one SFP slot, with one port active at a time
SFP+	SFP+ ports for 1/10G connection
USB	A USB management port for software and configuration backup and offline software upgrade
CONSOLE	An RJ45 console port for serial management

S5860-24XB-U



Ports	Description
RJ45	100M/1G/2.5G/5G/10G ports for Ethernet connection
SFP+	SFP+ ports for 1/10G connection
SFP28	SFP28 ports for 10/25G connection
USB	A USB management port for software and configuration backup and offline software upgrade
CONSOLE	An RJ45 console port for serial management
MGMT	An out-of-band Ethernet management port

Front Panel Buttons

S3410-24TS-P



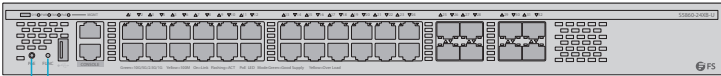
PoE

Button	Description
PoE	Switch the display mode between PoE mode and port rate mode.



NOTE: Long press PoE Mode Switch-Over Button for above 2 seconds to switch the display mode between PoE mode and port rate mode.

S5860-24XB-U

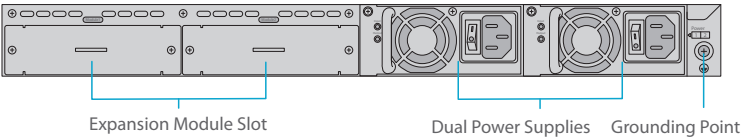


PoE FUNC

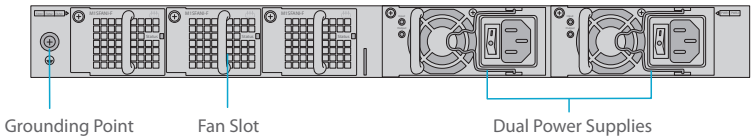
Button	Description
PoE	Switch the display mode between PoE mode and port rate mode.
FUNC	Press the button and the system will start collecting information. After collection finishes, the switch will be reset automatically. Long press and short press both work.

Back Panels

S3410-24TS-P

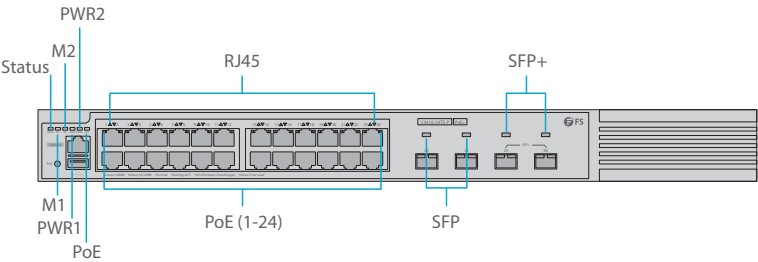


S5860-24XB-U



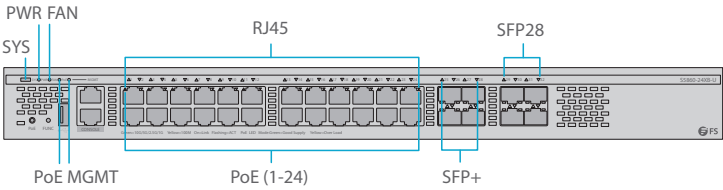
Front Panel LEDs

S3410-24TS-P



LEDs	Status	Description
Status	Off	Switch is not receiving power.
	Blinking Green	System is being initialized. Continuous blinking indicates errors.
	Solid Green	The switch is operational.
	Solid Yellow	Temperature warning, check the working environment of the switch immediately.
	Solid Red	Switch is faulty.

LEDs	Status	Description
M1/M2	Off	There is no expansion module or the expansion module is not correctly installed.
	Solid Green	The expansion module is correctly installed.
PWR1/PWR2	Off	The power module is not in place.
	Solid Red	The power module is in place but the AC power cord or switch is abnormal.
	Solid Green	The power supply is operational.
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.
PoE (1-24)	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.
	Blinking Green	The port is receiving or transmitting traffic at 10Gbps.

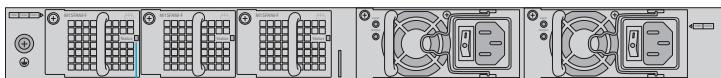


LEDs	Status	Description
SYS	Off	The system is powered off.
	Solid Red	1. A system fault occurs. 2. The temperature reaches the upper limit.
	Blinking Green	Initialization is in progress.
	Solid Green	The system works properly.
	Solid Yellow	1. The temperature reaches the threshold value. 2. Different power modules are used together.
	Solid Blue	The locator takes effect. It is controlled by O&M personnel remotely.
PWR	Off	The power module is NOT in the position.
	Solid Green	The power module works properly.
	Solid Red	1. A power fault occurs. 2. No AC power cable is plugged in. 3. The power model does not match.
FAN	Solid Green	The fan works properly.
	Solid Red	1. A fan fault occurs. 2. The fan model does not match with the system. 3. Not all fans are in position.
PoE	Solid Green	Indicates the switching state.
	Solid Yellow	Indicates the PoE state.
MGMT	Off	The MGMT port is NOT connected.
	Solid Green	The MGMT port is connected at 1000Mbps.
	Blinking Green	The MGMT port is transmitting or receiving data at 1000Mbps.
	Solid Yellow	The MGMT port is connected at 10/100Mbps.
	Blinking Yellow	The MGMT port is transmitting or receiving data at 10/100Mbps.

LEDs	Status	Description
RJ45	Off	The RJ45 port is NOT connected.
	Solid Green	The RJ45 port is connected at 1G/2.5G/5G/10G.
	Blinking Green	The RJ45 port is transmitting or receiving data at 1G/2.5G/5G/10G.
	Yellow	The RJ45 port is connected at 100Mbps.
	Blinking Yellow	The RJ45 port is transmitting or receiving data at 100Mbps.
PoE (1-24)	Off	PoE is off.
	Solid Green	PoE works properly.
	Solid Yellow	A PoE fault or overload occurs.
SFP+	Off	The SFP+ port is NOT connected.
	Solid Green	The SFP+ port is connected at 10G/1G.
	Blinking Green	The SFP+ port is transmitting or receiving data at 10G/1G.
SFP28	Off	The SFP28 port is NOT connected.
	Solid Green	The SFP28 port is connected at 25G/10G.
	Blinking Green	The SFP28 port is transmitting or receiving data at 25G/10G.

Back Panel LED

S5860-24XB-U



FAN Indicator

Installation Requirements

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

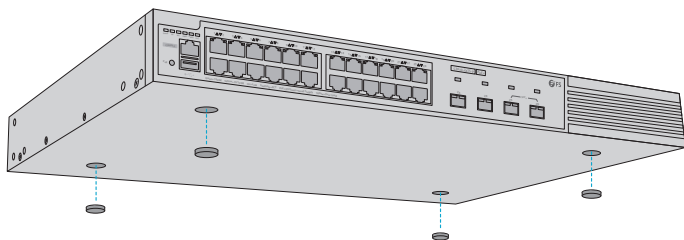
- Phillips screwdriver.
- Related electric cables and optical cables.
- Standard-sized, 19" wide rack with a minimum of 1U height available.
- Category 5e or higher RJ-45 Ethernet cables, fiber optical cables and console cable for connecting network devices.

Site Environment :

- Do not operate it in an area that exceeds an ambient temperature of 50°C.
- Standard-sized, 19" wide rack with a minimum of 1U height available.
- 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.

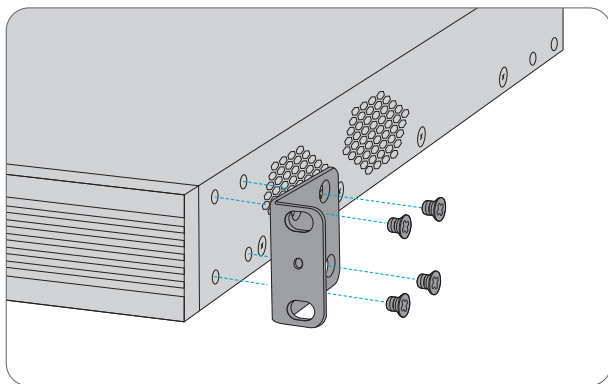
Mounting the Switch

Desk Mounting

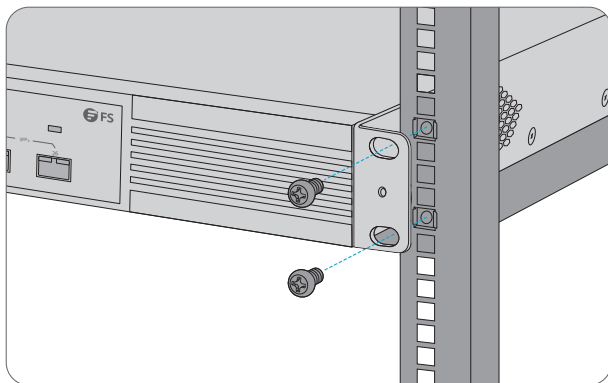


1. Attach four rubber pads to the bottom.
2. Place the chassis on a desk.

Rack Mounting

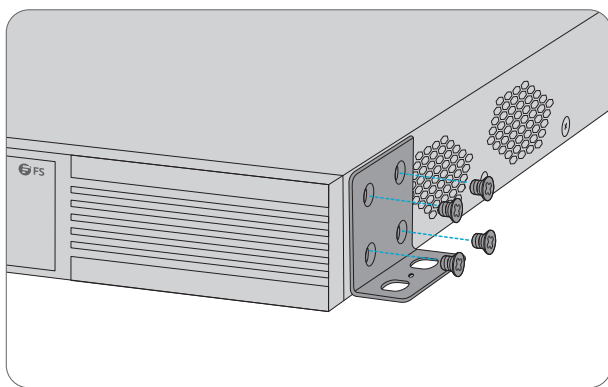


1. Secure the mounting brackets to the two sides of the S3410-24TS-P switch with eight M4 screws. (S5860-24XB-U switch with six M4 screws by default, another 2 screws for redundant.)

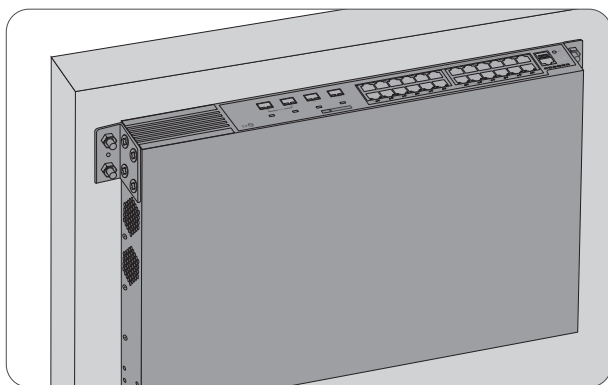


2. Attach the switch to the rack using four M6 screws and cage nuts.

Wall Mounting

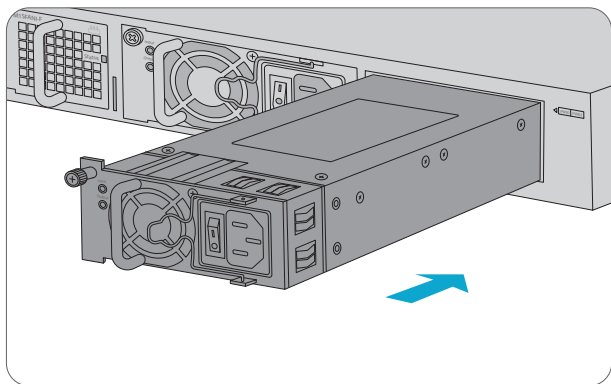


1. Secure the mounting brackets to the two sides of the switch with supplied screws.



2. Use the expansion screws to securely attach the mounting brackets on the wall.

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 blank panel 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.

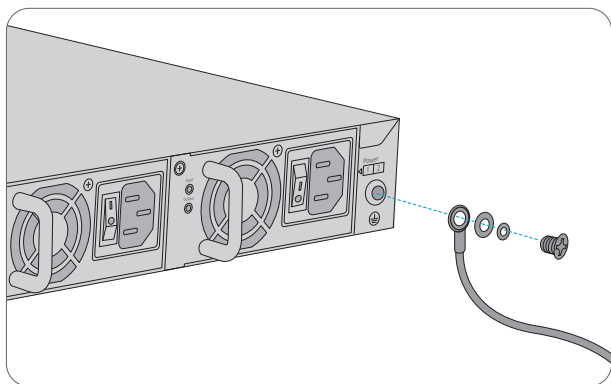
Dual-power input:

The switch can be powered by one power module, or two power modules. When both two modules are available, the switch is powered in load-balanced state.



NOTE: When the switch is powered by the dual-power modules, if the system working power is greater than the capacity of single power module, power redundancy cannot work.

Grounding the Switch

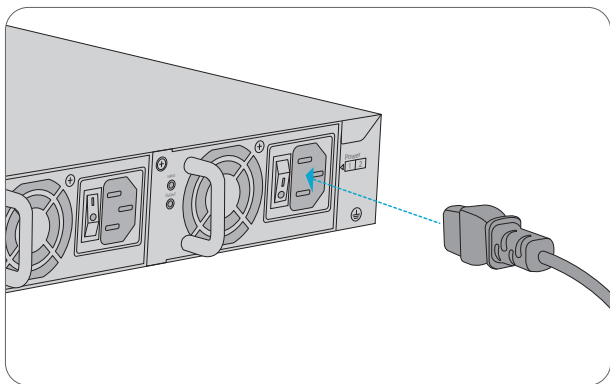


1. Connect one end of the grounding cable to a proper earth ground, such as the rack in which the switch is mounted.
2. Secure the grounding lug to the grounding point on the switch back panel with the washers and screws.



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

Connecting the Power

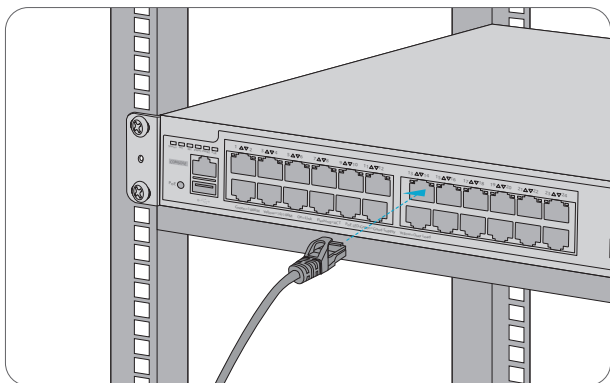


1. Plug the AC power cord into the power port on the back of the switch.
2. Connect the other end of the power cord to an AC power source.



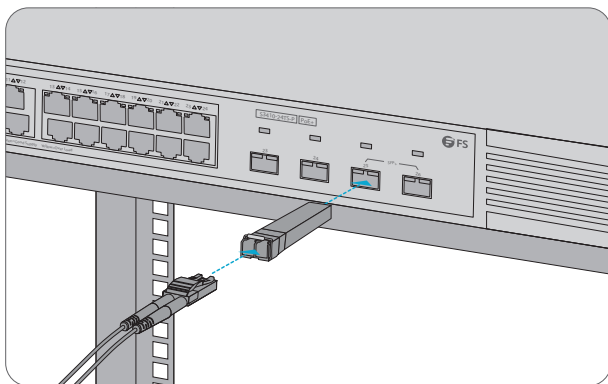
WARNING: Do not install power cable while the power is on.

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

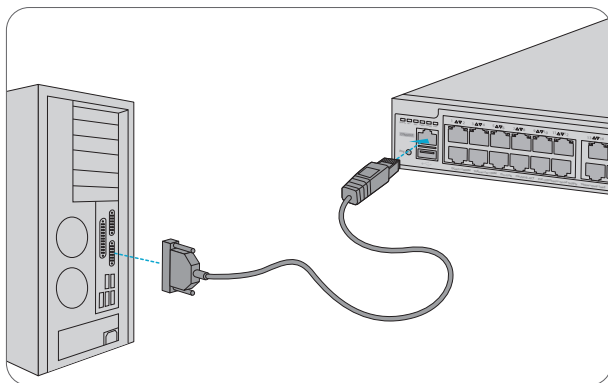


1. Plug the compatible SFP/SFP+ transceiver into the SFP/SFP+ port.
2. Connect a fiber optic cable to the fiber transceiver. Then connect the other end of the cable to another fiber device.



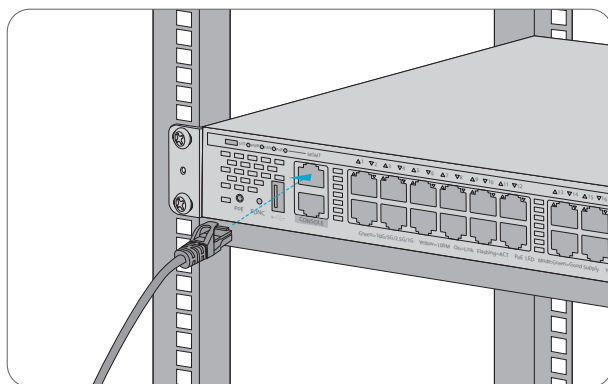
WARNING: Laser beams will cause eye damage. Do not look into bores of optical modules or optical fibers without eye protection.

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

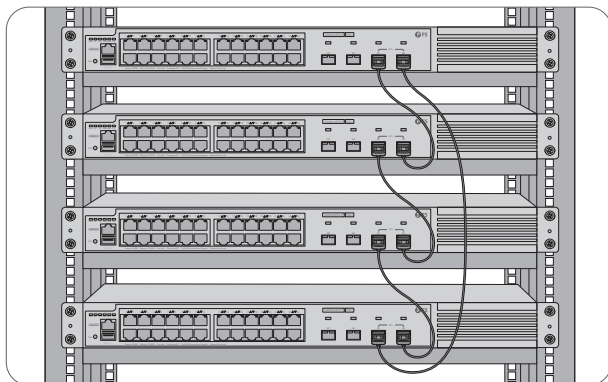


1. Connect one end of a standard RJ45 Ethernet cable to a computer.
2. Connect the other end of the cable to the MGMT port on the front of the switch.

Stacking the Switches

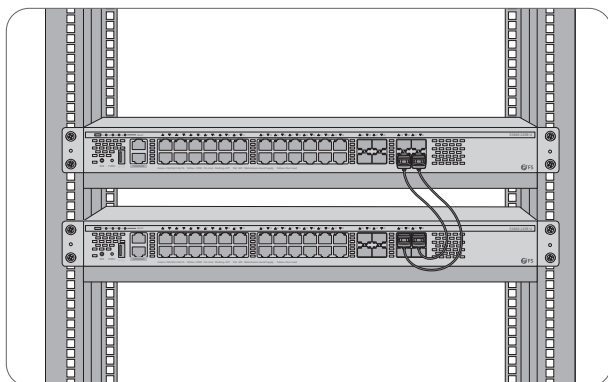
Stacking the S3410-24TS-P Switch

The S3410-24TS-P switch supports stacking up to 4 switches between the same models together. The switch can be physically stacked using optical fiber cables connected to SFP+ transceivers or 10G Direct Attach Cables (DAC). The two SFP+ ports on the switch can be used for physical stacking.



Stacking the S5860-24XB-U Switch

The S5860-24XB-U switch supports stacking up to 2 switches between the same models together. The switch can be physically stacked using optical fiber cables connected to SFP+/SFP28 transceivers or 10G/25G Direct Attach Cables (DAC). Any two SFP+/SFP28 ports on the switch can be used for physical stacking.

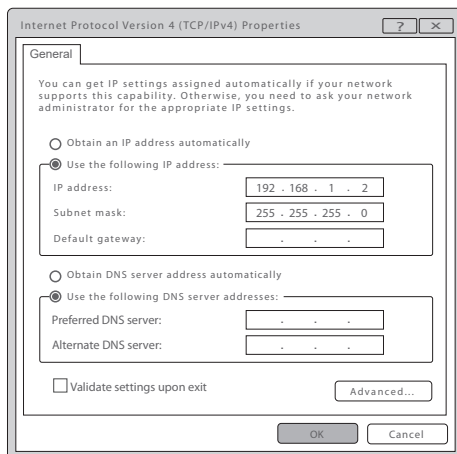


Configuring the Switch

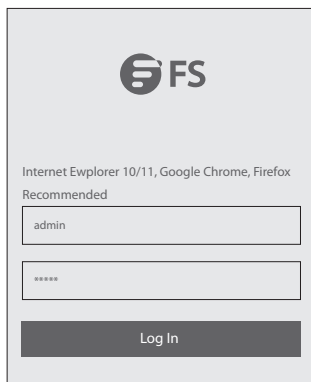
Configuring the Switch Using the Web-based Interface

Step 1: Connect the computer to any Ethernet port of the S3410-24TS-P switch using the network cable, and connect the computer to the Management port of the S5860-24XB-U 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 **Log 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: 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

Serial port console has no output or outputs illegible characters

1. Change the serial port opened by the configuration software to be the one connected to the switch.
2. Check that the parameter configuration of the serial port matches that specified in the instructions.

10G Port is not Working

In the case of compatible cables and transceivers, the port cannot be up, please try to modify the port mode to adapt or force the port speed to 1G/10G.

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.

RJ45 port is not in connectivity or it is erroneous in receiving/transmitting frames

1. Replace the twisted pair cable.
2. Check that the port configuration has the common working mode with the connected switch.

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: S3410-24TS-P & S5860-24XB-U 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