FS

S3950-4T12S

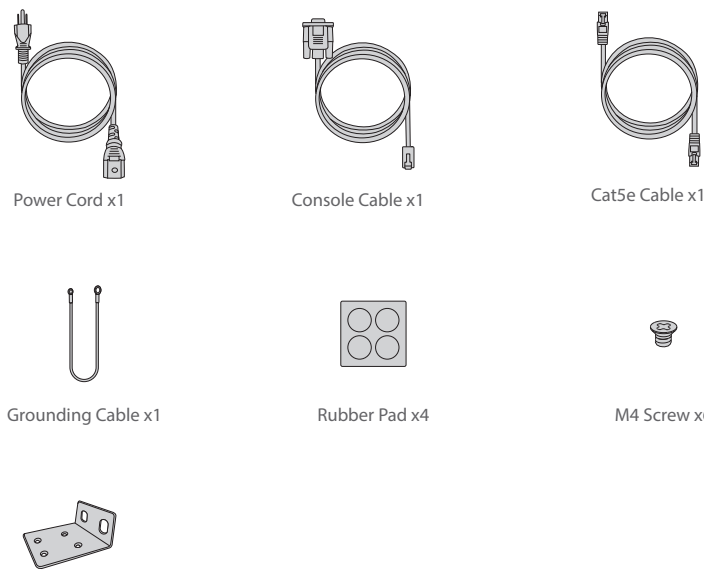# MANAGED L2+ GIGABIT SWITCH

Quick Start Guide V1.0

Introduction

Thank you for choosing S3950-4T12S switch. This guide is designed to familiarize you with the layout of the switch and describes how to deploy the switch in your network.
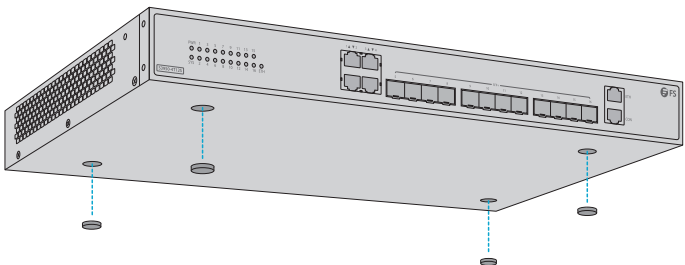
S3950-4T12S

Accessories

Power Cord x1

Console Cable x1

Cat5e Cable x1

Grounding Cable x1

Rubber Pad x4

M4 Screw x6

Mounting Bracket x2

Hardware Overview

Front Panel Ports

ETH

RJ45   SFP+   CON

Ports	Description
RJ45	10/100/1000BASE-T ports for Ethernet connection
SFP+	SFP+ ports for 1/10G transceivers
CON	An RJ45 console port for serial management
ETH	An Ethernet management port

Front Panel LEDs

PWR   ETH

SYS

RJ45 SFP+

LEDs	Status	Description
PWR	Green	Switch is powered on.
	Off	Power supply is absent or abnormal.
SYS	Green	System is initialized and operating in good condition.
	Blinking Green	System is booting.
	Off	No power or no system runs or runs abnormally.

LEDs	Status	Description
ETH	Green	Port is linked.
	Off	Port is not linked.
RJ45	Green	1G port is linked.
	Blinking Green	The RJ45 port is transmitting or receiving packets at 1G.
	Amber	10/100M port is linked.
	Blinking Amber	The RJ45 port is transmitting or receiving packets at 10/100M.
	Off	Port is not linked.
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.

Back Panel

Grounding Point

Power Supply

Installation Requirements

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

- 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℃.
- 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.
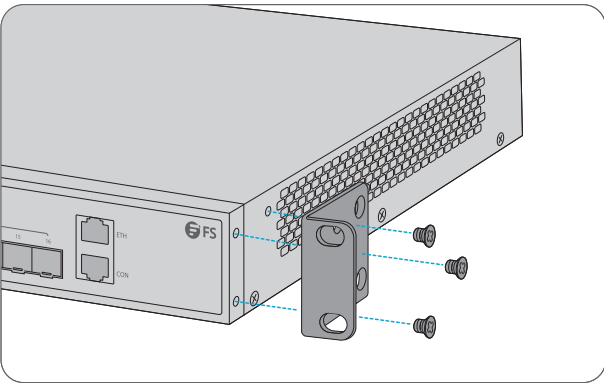- Ensure rack and working platforms are well earthed.

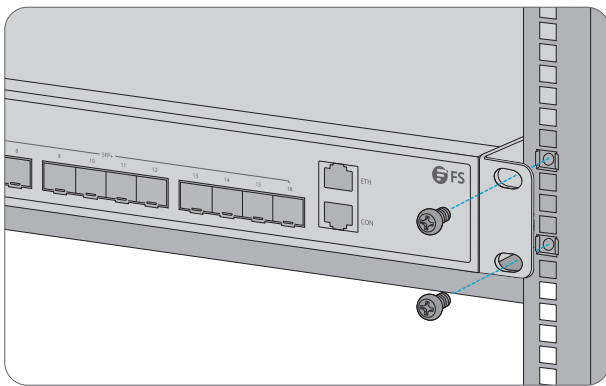## Mounting the Switch

Desk Mounting

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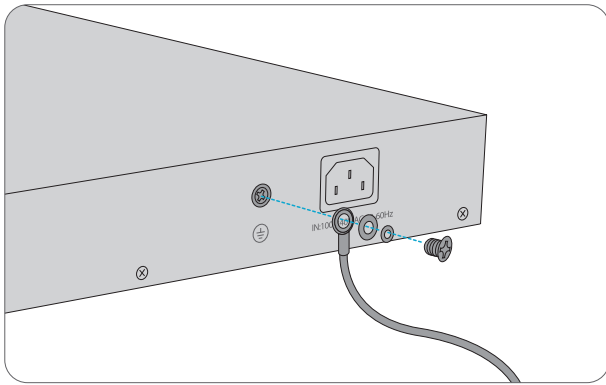2. Place the chassis on a desk.

Rack Mounting

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

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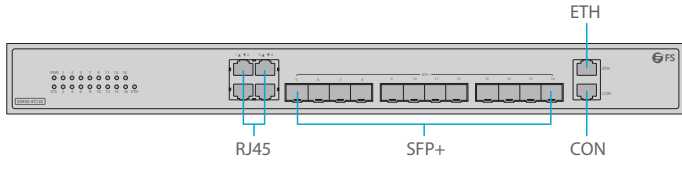
Grounding the Switch

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.
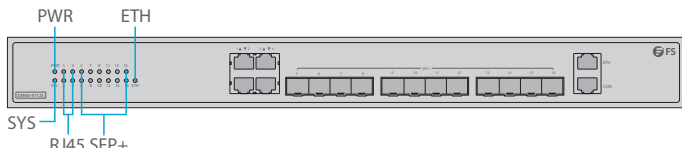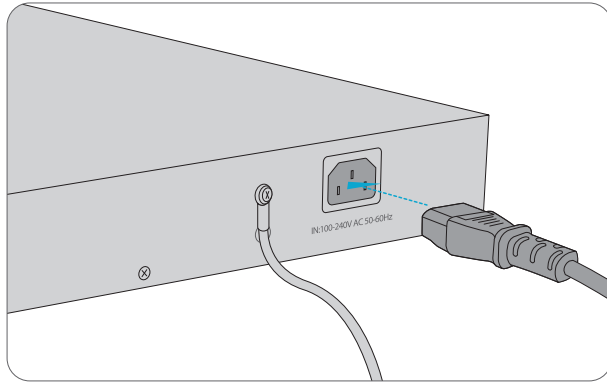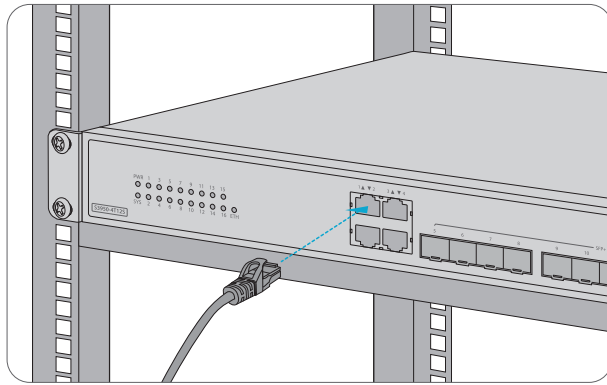
Connecting the Power

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.

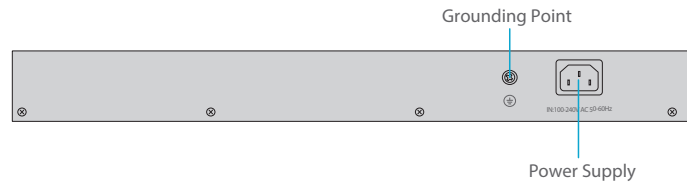⚠ **WARNING:** Do not install power cable while the power is on.
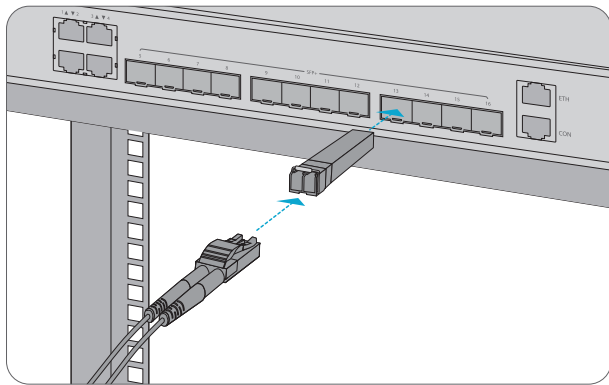
Connecting the RJ45 Ports

1. Connect an Ethernet cable to the RJ45 port of a computer, printer, network storage, or other network devices.
2. Connect the other end of the Ethernet cable to the RJ45 port of the switch.
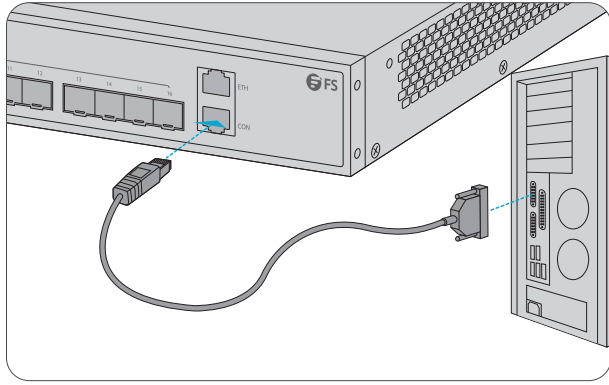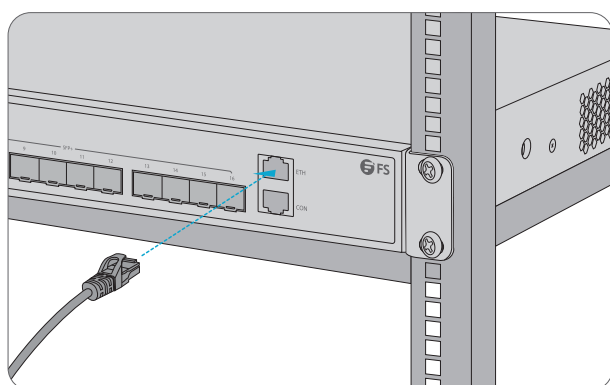
Connecting the SFP+ Ports

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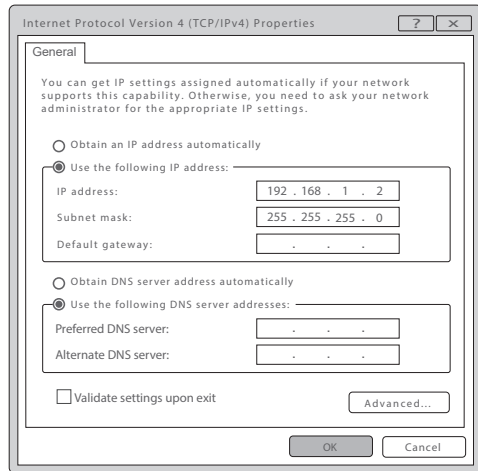2. Connect the other end of the cable to the ETH port on the front of the switch.

Configuring the Switch

Configuring the Switch Using the Web-based Interface

Step1: 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.

Internet Protocol Version 4 (TCP/IPv4) Properties

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

○ Obtain an IP address automatically
● Use the following IP address:
IP address: 192 . 168 . 1 . 2
Subnet mask: 255 . 255 . 255 . 0
Default gateway:

○ Obtain DNS server address automatically
● Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:

☐ Validate settings upon exit   Advanced...

OK   Cancel

Step 3: Open a browser, type http://192.168.1.1, and enter the default username and password, admin/admin.
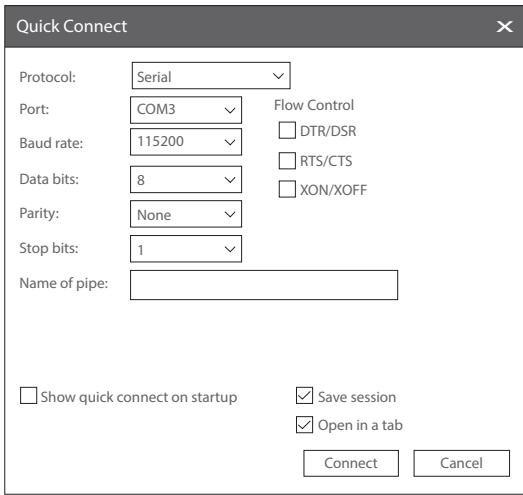Step 4: Click sign in to display the web-based configuration page.

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.

Quick Connect   ✕

Protocol: Serial   ▼
Port: COM3   ▼   Flow Control
Baud rate: 115200   ▼   ☐ DTR/DSR
Data bits: 8   ▼   ☐ RTS/CTS
Parity: None   ▼   ☐ XON/XOFF
Stop bits: 1   ▼
Name of pipe:

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

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:
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 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/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: S3950-4T12S Switch enjoys 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