S1900-5T

Switch Hardware Installation and Maintenance Guide

V1.0.2307A



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Preface

Audience:

This document is intended for network engineers responsible for S1900-5T switch installation and maintenance. You should have experience in network device installation and maintenance.

Feature Statement:

Please visit the FS.COM Technical Documents page to download the datasheet and obtain information on the specifications supported by the product.

Safety Statement:

- To avoid harm to people and equipment, please read the safety recommendations in the Safety Precautions for FS Switches before installing the FS Switch.
- Verify that the requirements described in the Safety Precautions for FS Switches have been met.

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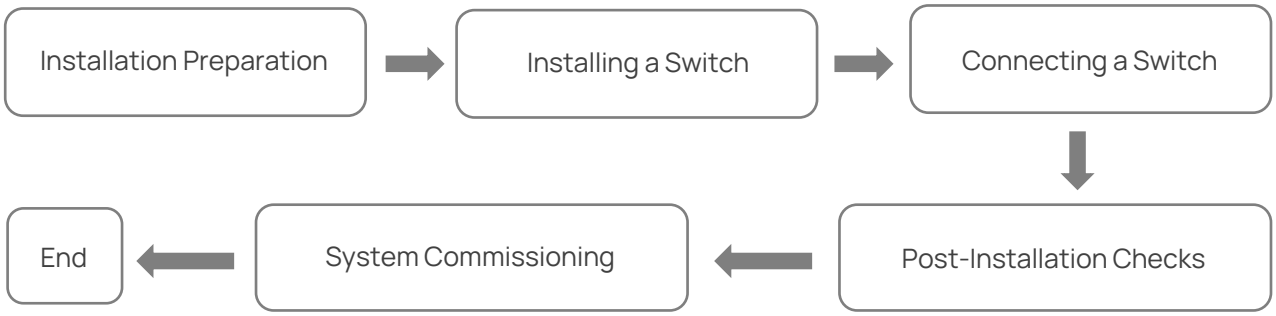
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Hardware Installation and Parts Replacement

FS S1900-5T is a full Gigabit Ethernet switch product that provides five 10/100/1000Mbps adaptive RJ45 ports and supports wire-speed forwarding on all ports. Based on Gigabit Ethernet network technology, it effectively avoids network transmission bottlenecks and has good network adaptability. Adopting Green Ethernet technology (802.3az), it automatically adjusts the signal strength by detecting the cable length and workload, which effectively reduces energy consumption and protects the environment without lowering the operational performance and efficacy of the equipment. The product's highly integrated design, lightweight, and easy to operate, it is suitable for a variety of home and small office. LED lights on the front panel can dynamically display the network operation.

1.1 Installation Procedure



1.2 Installation Preparation

- Mounting the Switch on a Workbench: Anti-static bracelets (or gloves)
- Mounting the Switch on a Wall: Anti-static bracelet (or gloves), ladder, screwdriver, marker, impact drill, rubber mallet

1.2.1 Checking the Installation Site

The S1900-5T switch must be used indoors. To ensure normal operations and long service life of the device, the installation site must meet the following requirements.

Item	Requirement
Heat Dissipation	This switch adopts a fanless design. To ensure good heat dissipation, when placing the chassis, there should be a sufficient space of 10cm on both sides and the rear panel for air circulation. Avoid blocking the chassis openings, as it may affect the heat dissipation effectiveness.
Anti-Static	Follow the electrostatic discharge protection procedures to prevent equipment damage. Electrostatic discharge can cause immediate or intermittent system failure.
Chassis	Ideally, the placement of the chassis should allow cold air to pass through it regularly. Ensure the chassis sealing is airtight; open chassis can disrupt the airflow circulation inside, leading to a change in the airflow direction intended to cool internal heating components.

1.2.2 Preparing Installation Tools and Accessories

Common Tools	Phillips screwdriver, Ethernet and optical cables, cage nuts, diagonal pliers and cable ties
Special Tools	Anti-static gloves, wire stripper, crimping plier, RJ45 connector crimping plier, and wire cutter
Cleaning Tools	Dust-free paper and fiber end-face microscope
Meters	Multimeter, bit error rate tester (BERT), and optical power meter

- The S1900-5T switch is delivered without a tool kit. You need to prepare a tool kit by yourself.

1.2.3 Installation Precautions

Please follow the instructions below to install the switch to avoid equipment damage and security threats caused by incorrect operation:

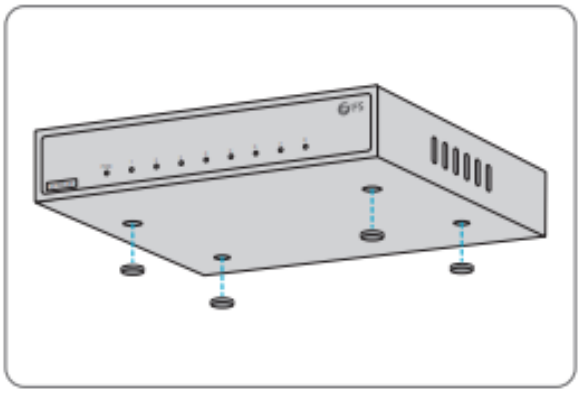
- Place the switch in a stable place or on a desktop to prevent it from being dropped and damaged;
- The switch can only work properly when powered by the correct power supply, please make sure the power supply voltage matches the voltage labeled on the switch;
- To keep the switch away from electrical sparks, do not open the switch's enclosure, even when it is not energized;
- Ensure that there is sufficient ventilation space to dissipate heat from the switch;
- Ensure that the countertop supporting the switch can adequately support the weight of the switch and its accessories.
- Unplug the power adapter from the switch before cleaning the switch. Do not wipe the switch with a wet cloth. Do not clean it with liquids.

1.3 Installing a Switch

1.3.1 Mounting the Switch on a Workbench

Install the switch on a smooth desktop. Install the supplied rubber feet on the four corners of the bottom surface of the switch and place them in the designated locations on the desktop, reserving enough ventilation space for the switch to dissipate heat.

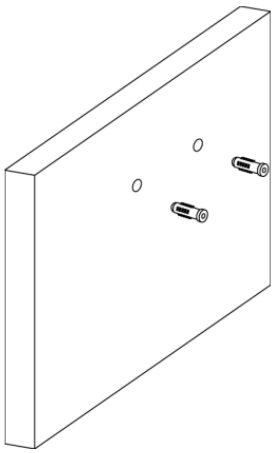
Figure 1: Mounting the Switch on a Workbench



1.3.2 Mounting the Switch on a Wall

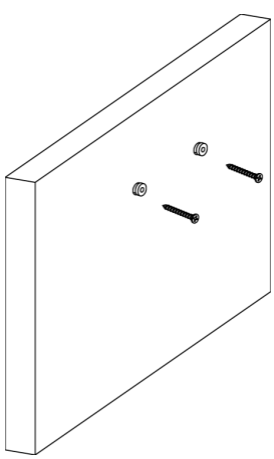
Step 1: Drill two suitable sized holes in the wall and press two expansion tubes into each of the two holes.

Figure 2: Drilling Holes and Pressing Expansion Tubes



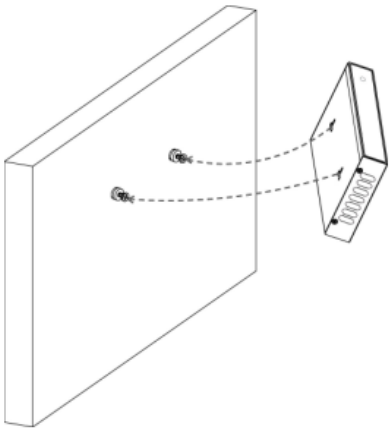
Step 2: Insert the screws into the expansion tubes.

Figure 3: Inserting Screws



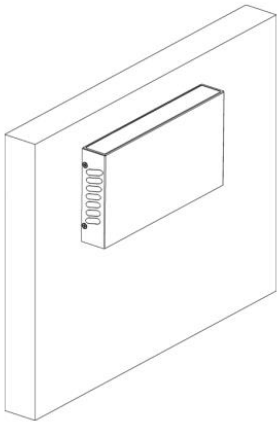
Step 3: Hang the switch on the two screws.

Figure 4: Hanging the Switch



Step 4: Installation is complete.

Figure 5: Complete Installation



1.4 Device Connection

1.4.1 Connecting Power Cables

The S1900-5T switch power supply uses direct current (DC) input:

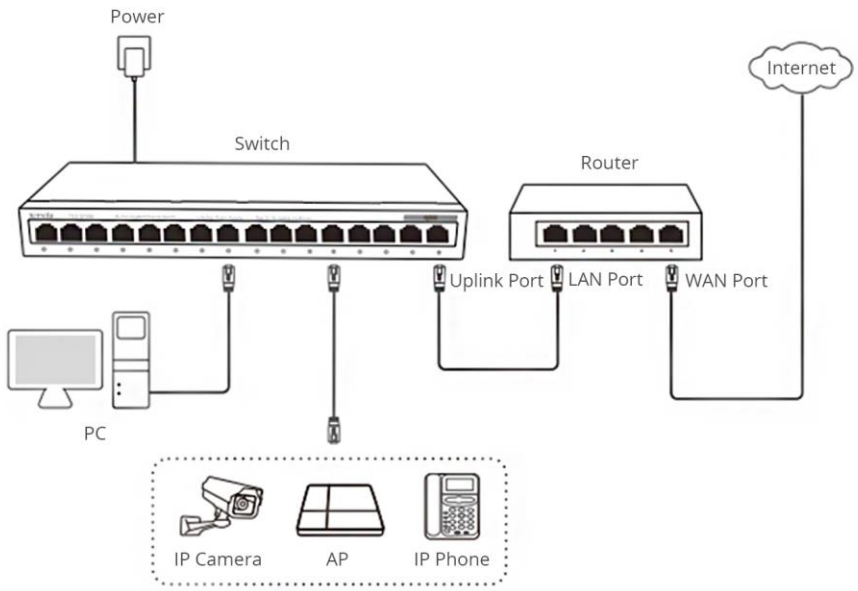
- Rated current: 1A
- Rated voltage: 5V

The switch is powered by an external DC adapter with a power of 5V/1A. Please follow the steps below to connect:

Connect one end of the standard DC adapter to the power socket and the other end to the power DC interface on the back panel of the switch. Check if the power indicator is on. If the power indicator is on, it indicates that the power connection is successful.

1.4.2 Connecting Switch to Computer (NIC) or Other Devices

Figure 6: Devices Connected to Switch



Indicator Light Explanation:

Indicator Light	Panel Label	Status	Meaning
Power Indicator Light	PWR	Light Off	Switch is not powered on
		Green Solid	Switch is powered on
10/100/1000Base-T Ethernet Port Indicator Light	Link/ACT (1-5)	Light Off	Port not linked
		Green Solid	Port 10/100/1000M Link Up
		Green Blinking	Port 10/100/1000M data transmission and reception

1.5 Post-Installation Checks

- If the switch is installed in a rack, please check if the installation angle iron of the rack and the switch is secure. If it is installed on a workbench, check if there is sufficient ventilation space around the switch and if the workbench is stable.
- Verify that the power supply connected to the power line is consistent with the switch's power requirements.
- Check the connection between the switch and other devices such as configuration terminals to ensure correctness.
- Ensure good contact of the power line and compliance with safety requirements.

Before confirming the installation correctness, be sure to disconnect the power to avoid human injury and product component damage due to incorrect connections.



FS has invested resources in product R&D, quality control, intelligent manufacturing, industry-leading experts, professional technical support, and networking solutions. All is to provide customers with higher-performance, lower-power consumption, and the most cost-effective products, promoting clients' network upgrades.

For more information and technical support, welcome to contact us at www.fs.com/contact_us

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