



FS S3900-R Series 24 Port Gigabit Stackable Fanless Managed Switch User Manual

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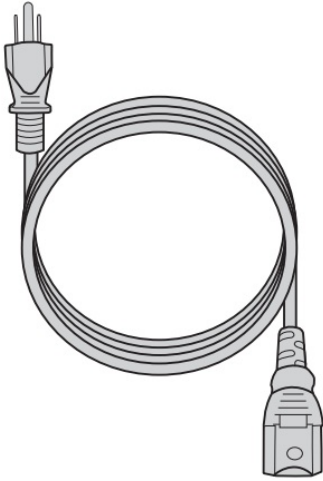
Introduction

‘Thank you for choosing S3900 Series Stack able Managed Switches. This guide is designed to familiarize you with the layout of the switch and describes how to deploy the switch in your network.

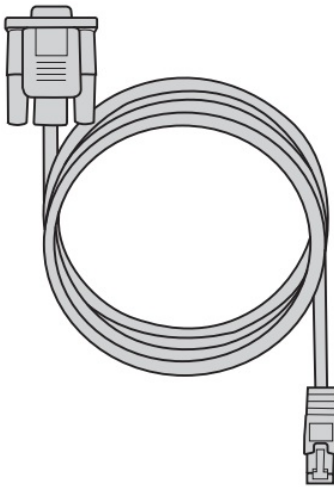
Accessories

\$3900-24T4S-R

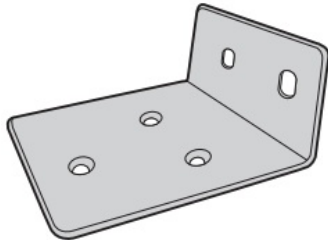
- Power Cord x2



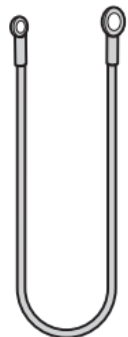
- Console Cable 1



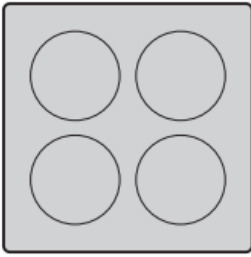
- Mounting Bracket x 2



- Grounding Cable x 1



- Rubber Pad x4

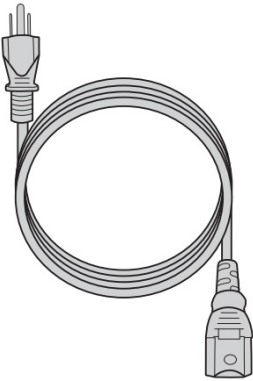


- M3 Screw x6

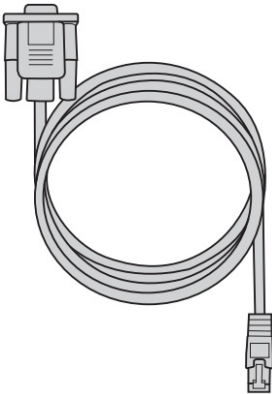


5\$3900-24F45-R/S3900-48T65-R

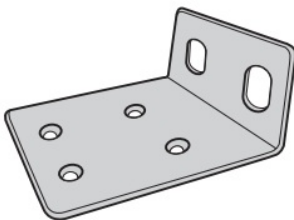
- Power Cord x2



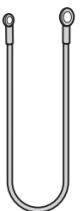
- Console Cable x1



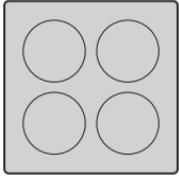
- Mounting Bracket x2



- Grounding Cable x1



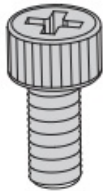
- Rubber Pad x4



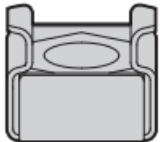
- M3 Screw x8



- M6 Screw xd



- M6 Nutxd



NOTE: This power cord cannot be used with other devices, and other power cords should not be used with this device.

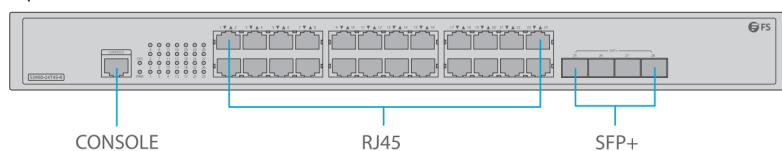


NOTE: 53900 series switches have dust plugs delivered with them. Keep the dust plugs properly and use them to protect idle optical ports.

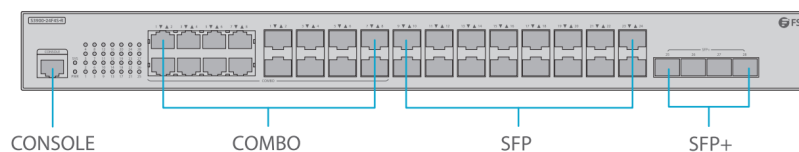
Hardware Overview

Front Panel Ports

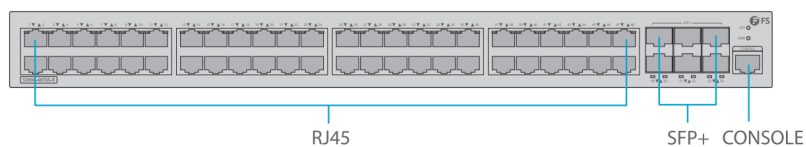
53900-24T4S-R



53900-24F4S-R



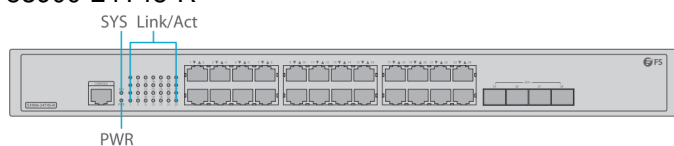
53900-48T6S-R



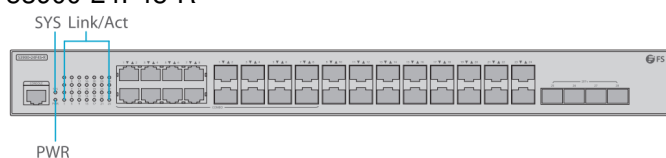
Ports	Description
RJ4s	10/100/1000BASE-T ports for Ethernet connection
SFP	SFP ports for 1G connection
SFP+	SFP+ ports for 1/10G connection
CONSOLE	An RJ45 console port for serial management
COMBO	One RJ45 port and one SFP slot, ©one port active at a time

Front Panel LEDS

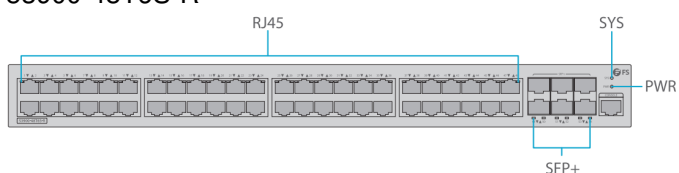
53900-24T45-R



53900-24F45-R



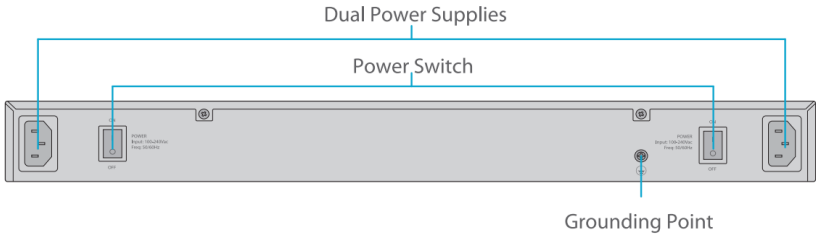
53900-48T6S-R



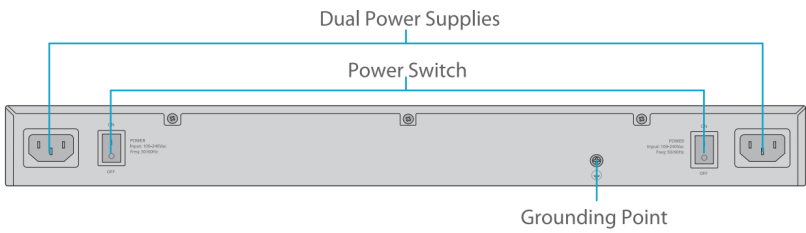
LEDs	LEDs	Description
PWR	Green	Switch is powered on.
SYS	Green	Systemic working properly.
	Blinking Green	Systemic started normally.
	Off	System is not working properly.
Link/Act	Green	Data is being transmitted or received
	off	no signal transmission.
RIAS/SFP+	Blinking Green	Data is being transmitted or received
	off	No device is connected to the corresponding port.

Back Panels

53900-24T45-R



53900-24F4S-R / \$3900-48T65-R



Button	Description
Power switch	ON means the power switched on, while OFF means the power is cut off.

Installation Requirements

Only professionals are allowed to install or replace the switch.
Before you begin the installation, make sure that you have the following:

- Screwdriver
- Static-proof wristband
- Ethernet cable

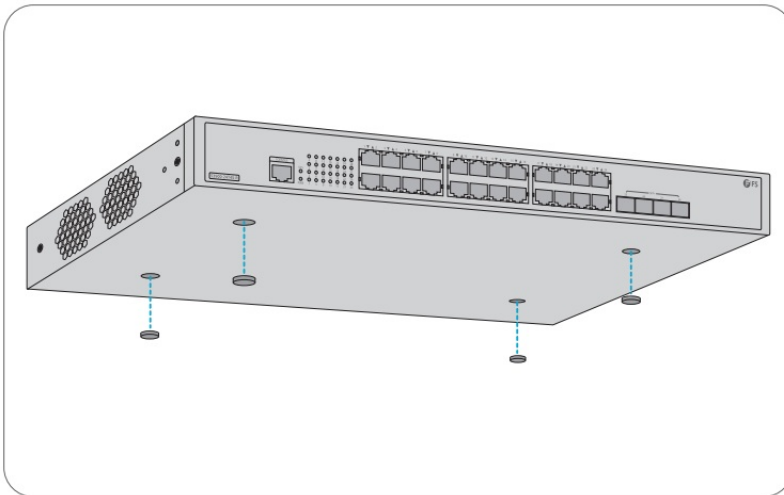
- Other Ethernet terminal devices
- Control terminal

Site Environment:

- Do not operate it in an area that exceeds an ambient temperature of 50°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.
- Ensure rack and working platforms are well earthed

Mounting the Switch

Desk Mounting

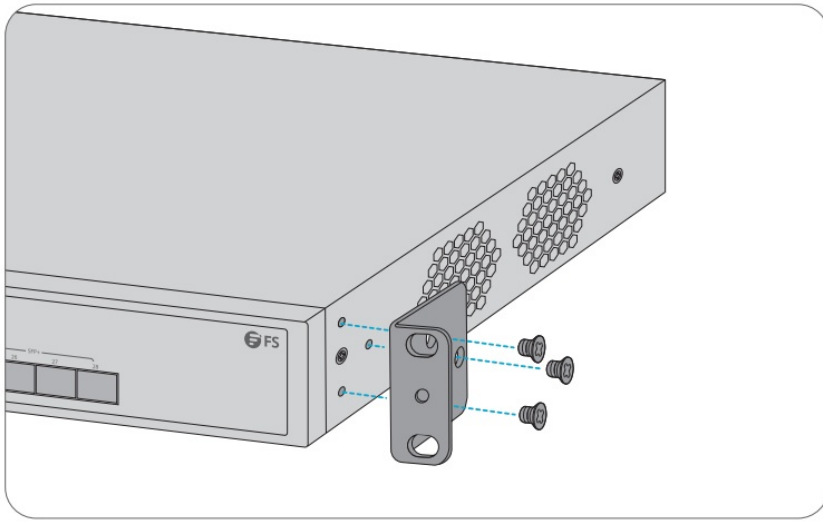


1. Attach four rubber pads to the bottom.
2. Place the chassis on a desk.

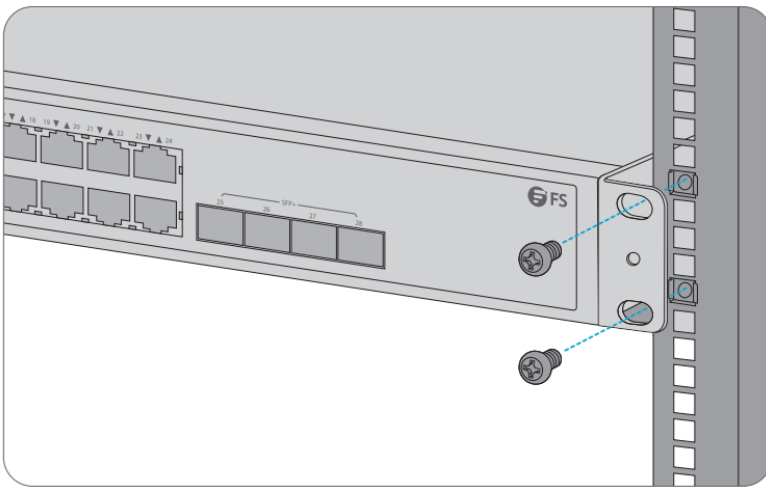


NOTE: Do not put things weighing 4.5 kg or over 4.5 kg on the top of the switch.

Rack Mounting



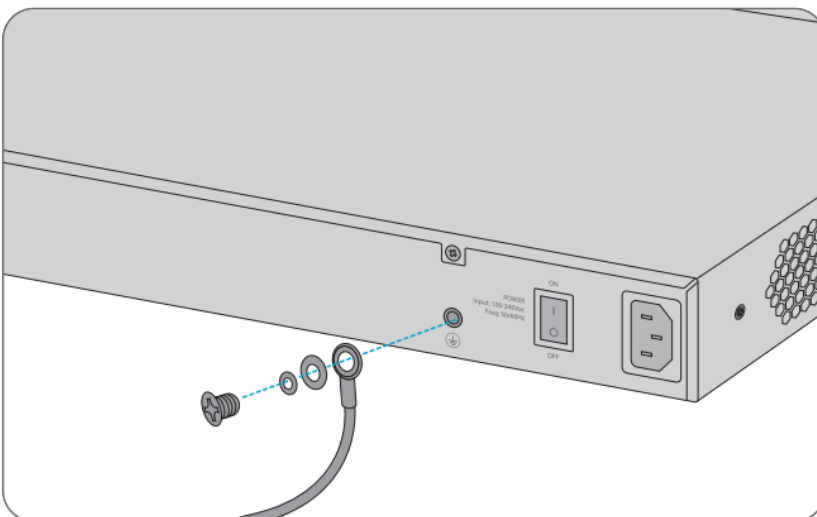
1. Secure the mounting brackets to the two sides of the switch with M4 screws.



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

Grounding the Switch

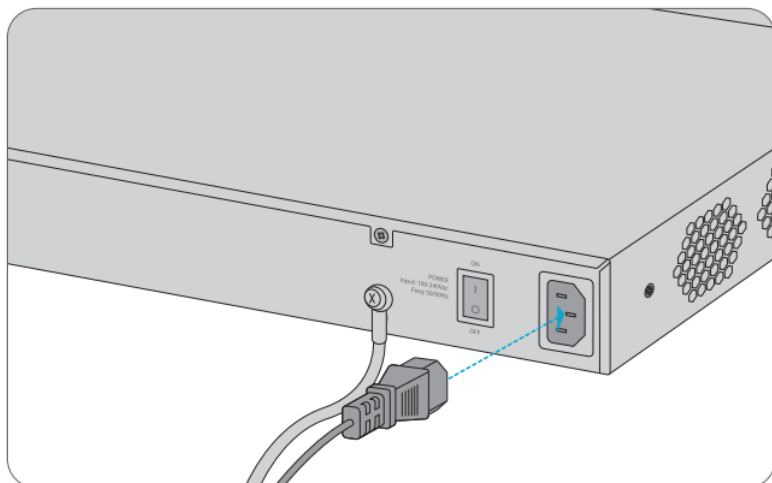
1. Connect one end of the grounding cable to a proper earth ground, such as the rack in which the switch is mounted.
2. Secure the grounding lug to the grounding point on the switch back panel with the washers and screws.





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

Connecting the Power

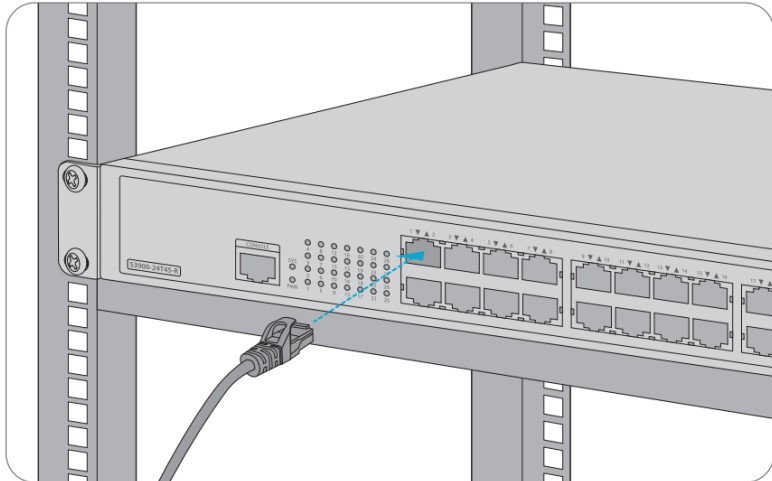


1. Plug the AC power cord into the power port on the back of the switch.
2. Connect the other end of the power cord to an AC power source.



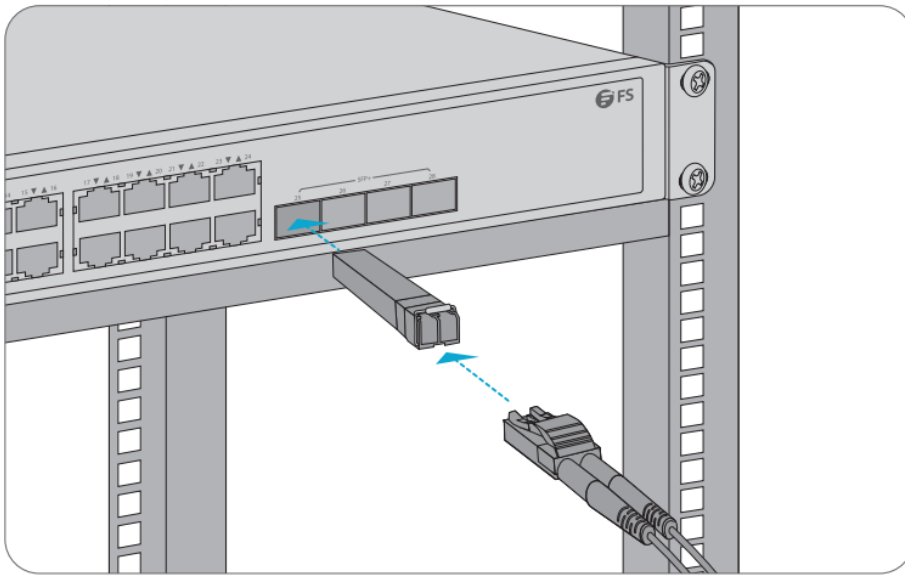
WARNING: Do not install power cable while the power is on.

Connecting the RJ45 Ports



1. Connect an Ethernet cable to the R4S 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+

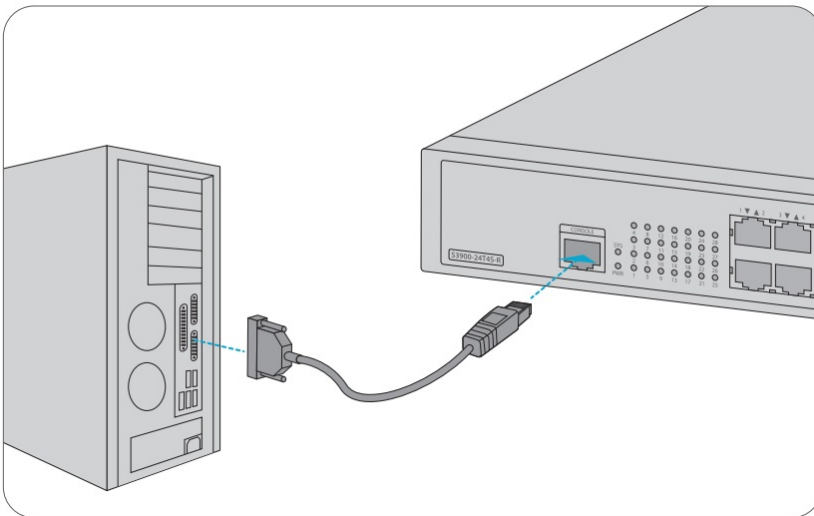


1. Plug the compatible SFP+/SFP transceiver into the SFP+ port.
2. Connects fiber optic cable to the fiber transceiver. Then connect the other end of the cable to another fiber device.



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

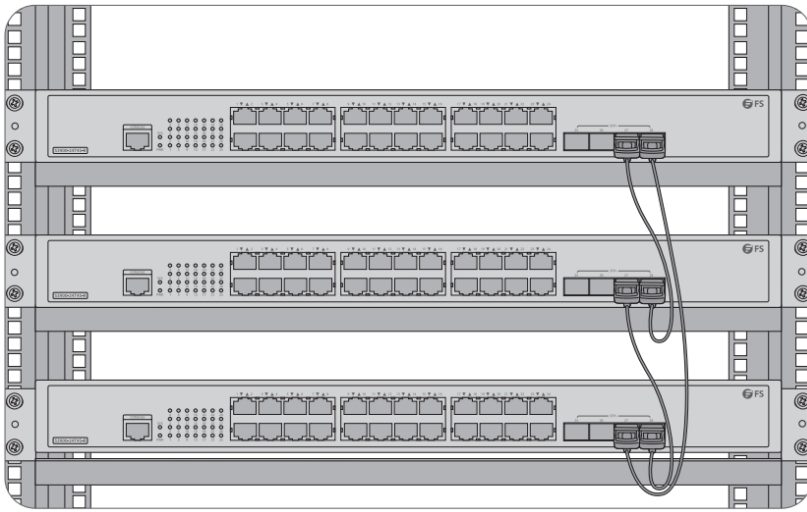
Connecting the Console Port



1. Insert the RJ4S connector into the RJ4S console port on the front of the switch.
2. Connect the DB9 female connector of the console cable to RS-232 serial port on the computer.

Stacking the S3900 Series Switches

S3900-24T45-R&S3900-24F45-R support 8 units hybrid-stacking together. S3900-48T65-R supports 6 units stacking between same models. Switches can be physically stacked using optical fiber cables connected to SFP+ transceivers, or 10G Direct Attach Cables (DAC). All SFP+ ports on the switch can be used for physical stacking.

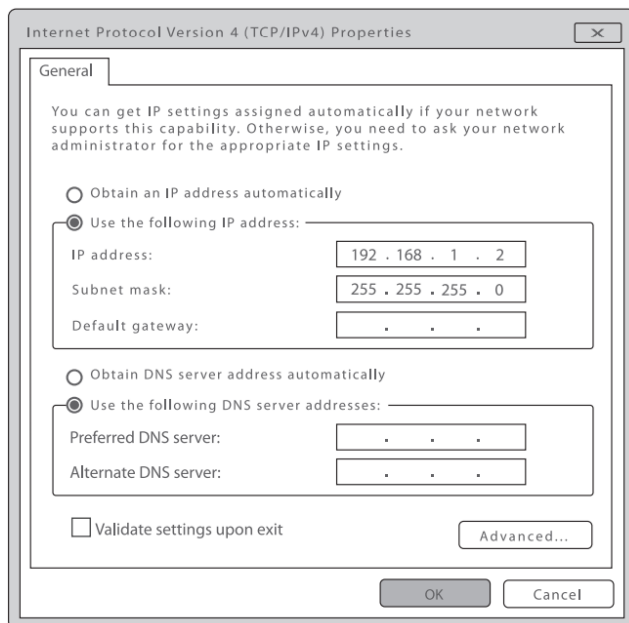


Configuring the Switch

Configuring the Switch Using the Web-based Interface

Step 1: Connect your computer to any Ethernet 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.

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

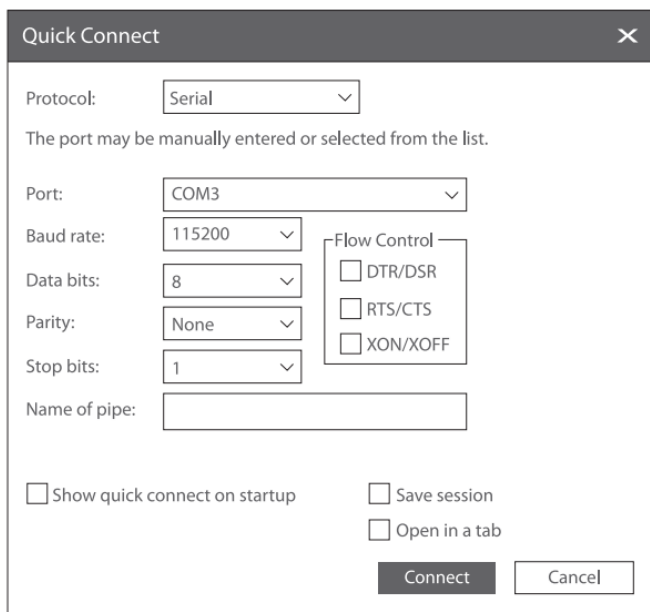
Configuring the Switch Using the Console Port

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

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

Step 3: Set the parameters of the Hyper Terminal: 115200 bits per second, 8 data bits, no parity,

1. stop bit and no flow control.



The image shows a 'Quick Connect' dialog box with a close button (X) in the top right corner. It contains the following fields and options:

- Protocol:** A dropdown menu set to 'Serial'.
- Port:** A dropdown menu set to 'COM3'. Below this is a note: 'The port may be manually entered or selected from the list.'
- Baud rate:** A dropdown menu set to '115200'.
- Data bits:** A dropdown menu set to '8'.
- Parity:** A dropdown menu set to 'None'.
- Stop bits:** A dropdown menu set to '1'.
- Name of pipe:** An empty text input field.
- Flow Control:** A group box containing three checkboxes: 'DTR/DSR', 'RTS/CTS', and 'XON/XOFF', all of which are currently unchecked.
- Options:** Three checkboxes at the bottom: 'Show quick connect on startup', 'Save session', and 'Open in a tab', all unchecked.
- Buttons:** 'Connect' and 'Cancel' buttons at the bottom right.

Troubleshooting

1/10G Port notWorking

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.

Support and Other Resources

1. **Download** <https://www.fs.com/download.html>
2. **Help Center** https://www.fs.com/service/help_center.html
3. **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: 53900 Series Switches enjoy 4 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

Compliance Information

FCC

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

CE

FS.COM GmbH hereby declares that this device is in compliance with the Directive 2014/30/EU, 2014/35/EU, 2011/65/EU and (EU)2015/863. A copy of the EU Declaration of Conformity is available at www.fs.com/company/quality_control.html

Die **FS.COM** GmbH erklrt hiermit, dass dieses Gert mit der Richtlinie 2014/30/EU, 2014/35/EU, 2011/65/EU und (EU)2015/863 konform ist. Eine Kopie der EU-Konformittserklrung finden Sie unter www.fs.com/de/company/quality_control.html

FS.COM GmbH dclare par la prsente que ce dispositif est conforme  la Directive 2014/30/EU, 2014/35/EU, 2011/65/EU et (EU)2015/863. Une copie de la Dclaration de Conformit de l'UE est disponible  l'adresse suivante https://www.fs.com/fr/company/quality_control.html

FS.COM GmbH

NOVA Gewerbepark Building 7, Am Gfild 7, 85375 Neufahrn bei Mnchen, Germany

Documents / Resources

 <p>S3900 SERIES MANAGED L3+ GIGABIT SWITCHES MANAGED L3+ GIGABIT SWITCHES FOR DATA CENTER PORTS: 24x SFP+ (25G) / 24x RJ45 (10G/1G) Quick Start Guide</p>	<p>FS S3900-R Series 24 Port Gigabit Stackable Fanless Managed Switch [pdf] User Manual S3900-R Series 24 Port Gigabit Stackable Fanless Managed Switch, S3900-R Series, 24 Port Gigabit Stackable Fanless Managed Switch, Gigabit Stackable Fanless Managed Switch, Stackable Fanless Managed Switch, Fanless Managed Switch, Managed Switch, Switch</p>
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References

- [User Manual](#)