



FS SG-5105 Multi Service and Unified Security Gateways User Guide

[Home](#) » [FS](#) » FS SG-5105 Multi Service and Unified Security Gateways User Guide 

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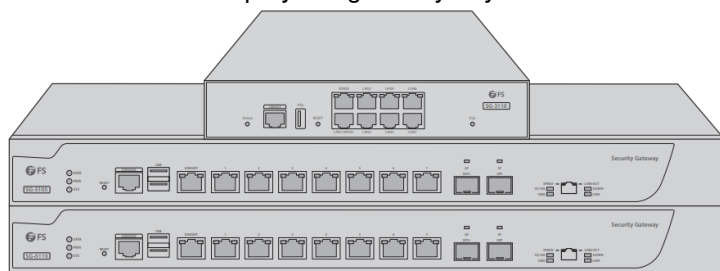


Contents

1	Introduction
2	Accessories
3	Power Cord x1
4	Rubber Pad x4
5	Mounting Bracket x2
6	M4 Screw x6
7	SG-5105/SG-5110
8	Power Cord x1
9	Console Cable x1
10	Network Cable x1
11	Rubber Pad x4
12	Mounting Bracket x2
13	M4 Screw x6
14	Power Cord Tie x1
15	NOTE: FS gateways have dust plugs delivered with them. Keep the dust plugs properly and use them to protect idle optical ports.
16	Hardware Overview
17	Front Panel Ports
18	SG-3110
19	Ports
20	Description
21	RJ45
22	10/100/1000BASE-T ports for Ethernet connection
23	SFP
24	SFP port for 1G connection
25	SFP+
26	SFP+ port for 10G connection
27	CONSOLE
28	An RJ45 console port for serial management
29	MGMT
30	An Ethernet management port
31	USB
32	A USB management port for software and conguration backup and o-line software upgrade
33	Front Panel Buttons
34	SG-3110
35	SG-5105/SG-5110
36	Button
37	Description
38	RESET
39	Press and release the RESET button to restart the device. To restore to factory default, press and hold the RESET button for more than three seconds.
40	Back Panels
41	SG-3110
42	SG-5105/SG-5110
43	Back Panel Button
44	Installation Requirements
45	Mounting the Gateway
46	Configuring the Gateway
47	Troubleshooting
48	Support and Other Resources
49	Product Warranty
50	Documents / Resources
50.1	References
51	Related Posts

Introduction

Thank you for choosing FS Gateways. This guide is designed to familiarize you with the layout of the gateway and describes how to deploy the gateway in your network



SG-3110

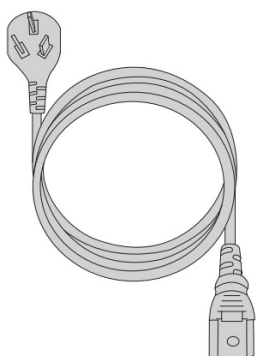
SG-5105

SG-5110

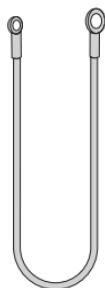
Accessories

SG-3110

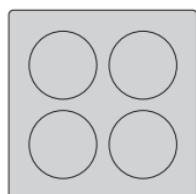
- **Power Cord x1**



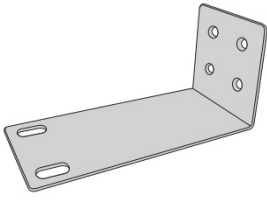
- **Grounding Cable x1**



- **Rubber Pad x4**



- **Mounting Bracket x2**

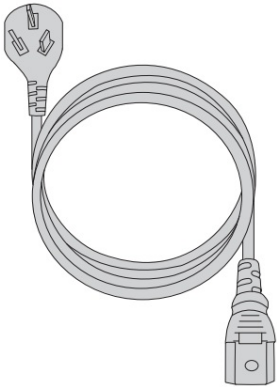


- **M4 Screw x6**

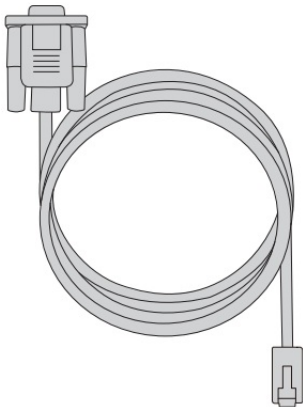


SG-5105/SG-5110

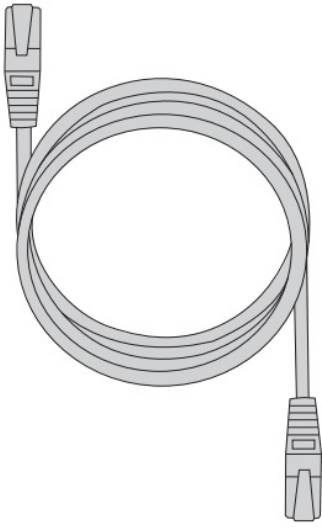
- **Power Cord x1**



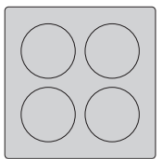
- **Console Cable x1**



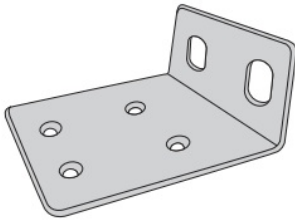
- **Network Cable x1**



- **Rubber Pad x4**



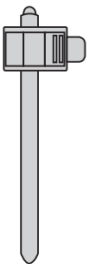
- **Mounting Bracket x2**



- **M4 Screw x6**



- **Power Cord Tie x1**

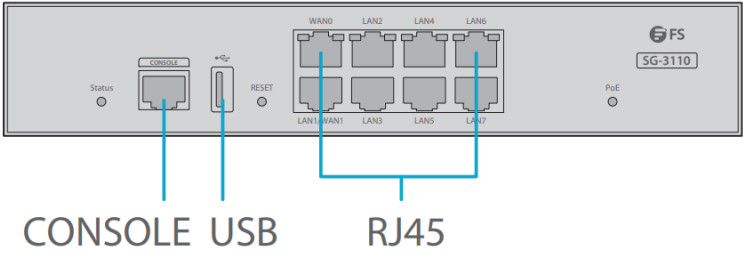


NOTE: FS gateways have dust plugs delivered with them. Keep the dust plugs properly and use them to protect idle optical ports.

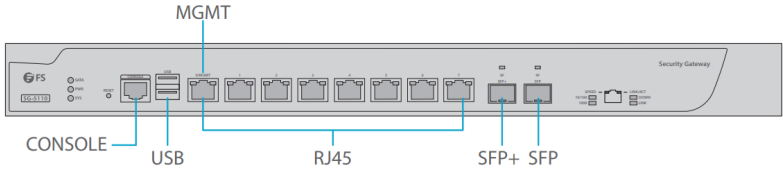
Hardware Overview

Front Panel Ports

SG-3110



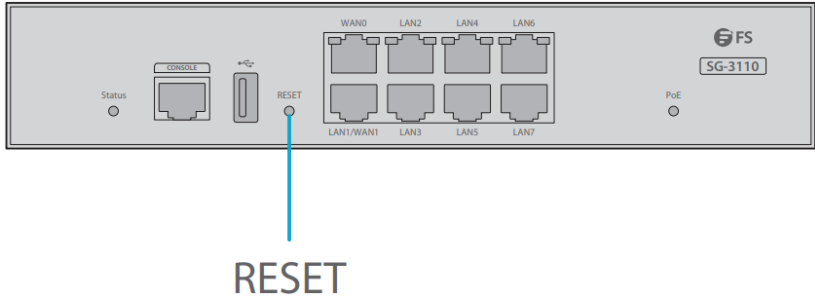
SG-5105/SG-5110



Ports	Description
RJ45	10/100/1000BASE-T ports for Ethernet connection
SFP	SFP port for 1G connection
SFP+	SFP+ port for 10G connection
CONSOLE	An RJ45 console port for serial management
MGMT	An Ethernet management port
USB	A USB management port for software and conguration backup and o-line sof tware upgrade

Front Panel Buttons

SG-3110



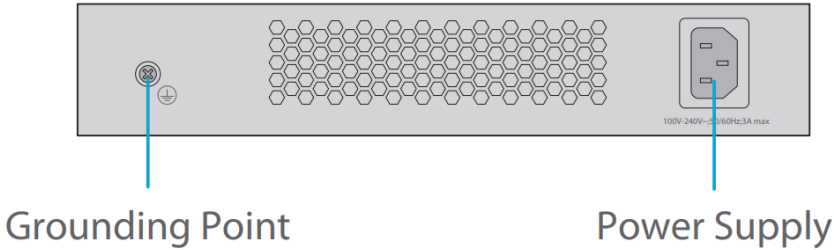
SG-5105/SG-5110



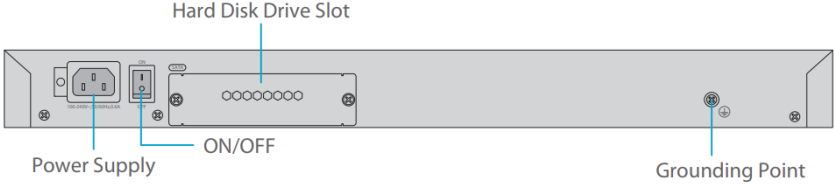
Button	Description
RESET	Press and release the RESET button to restart the device. To restore to factory default, press and hold the RESET button for more than three seconds.

Back Panels

SG-3110



SG-5105/SG-5110

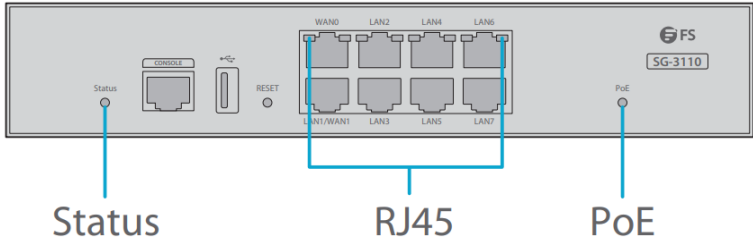


Back Panel Button

Button	Description
Power ON/OFF	Control the gateway power supply.

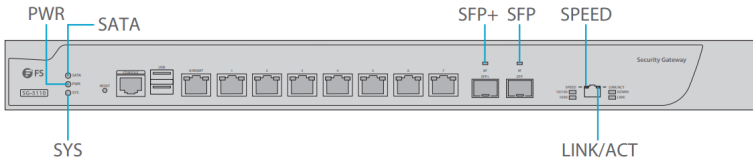
Front Panel LEDs

SG-3110



LEDs	Status	Description
Status	Blinking Green	System is being initialized.
	Solid Green	The initialization process is complete.
	Solid Red	The system sends out an alarm.
RJ45	Solid Green	The port is up.
	Blinking Green	The port is receiving or transmitting data.
PoE	Solid Green	PoE works normally.
	Red/Green Flashing Alternately	PoE overload occurs.
	Solid Red	An alarm is generated.

SG-5105/SG-5110



LEDs	Status	Description
PWR	Off	The power module is not in the position or fails.
	Solid Green	The power module is working properly.
SYS	Blinking Green	The system is being initialized.
	Solid Green	The initialization process is complete.
	Solid Red	The system sends out an alarm.
SATA	Solid Green	The SATA disk is installed.
	Blinking Green	The SATA disk is reading or writing data.
LINK/ACT	Solid Green	The port is connected at 10/100/1000M.
	Blinking Green	The port is receiving or transmitting data.
SPEED	Off	The port is connected at 10/100M.
	Solid Orange	The port is connected at 1000M.
SFP	Solid Green	The fiber port is connected.
	Blinking Green	The fiber port is receiving or transmitting data.
SFP+	Solid Green	The fiber port is connected.
	Blinking Green	The fiber port is receiving or transmitting data.

Installation Requirements

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

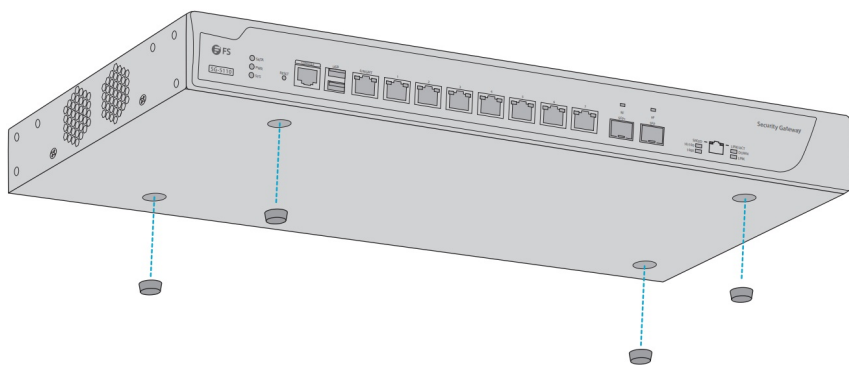
- Phillips screwdriver.
- Standard-sized, 19" wide rack with a minimum of 1U height available.
- Category 5e or higher RJ-45 Ethernet cables and fiber optical cables for connecting network devices.

Site Environment:

- Do not place the device in a damp or wet location. Do not let any liquid enter the chassis.
- Do not install the equipment in a dusty environment.
- Keep the device away from heat sources.
- Ensure the normal grounding of device.
- Wear an anti-static wrist strap to install and maintain the device.
- Use UPS (Uninterruptible Power Supply) to prevent power failure and other interference.

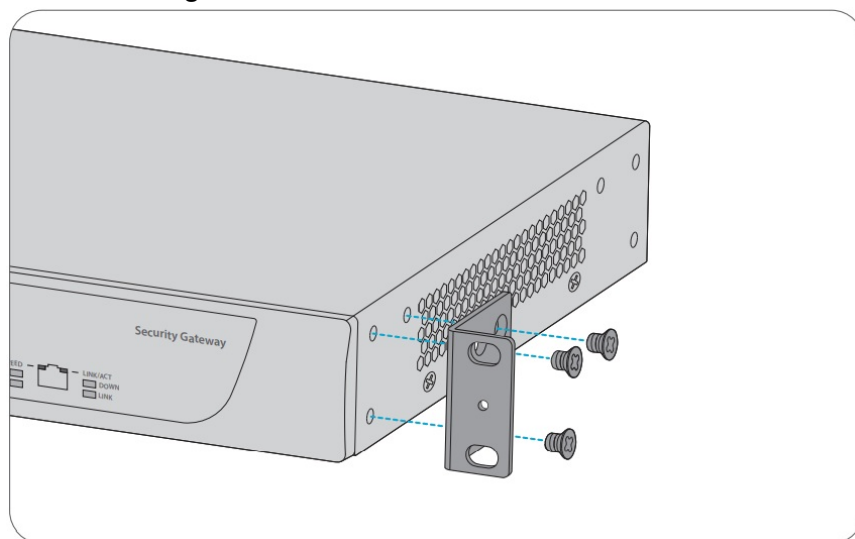
Mounting the Gateway

Desk Mounting

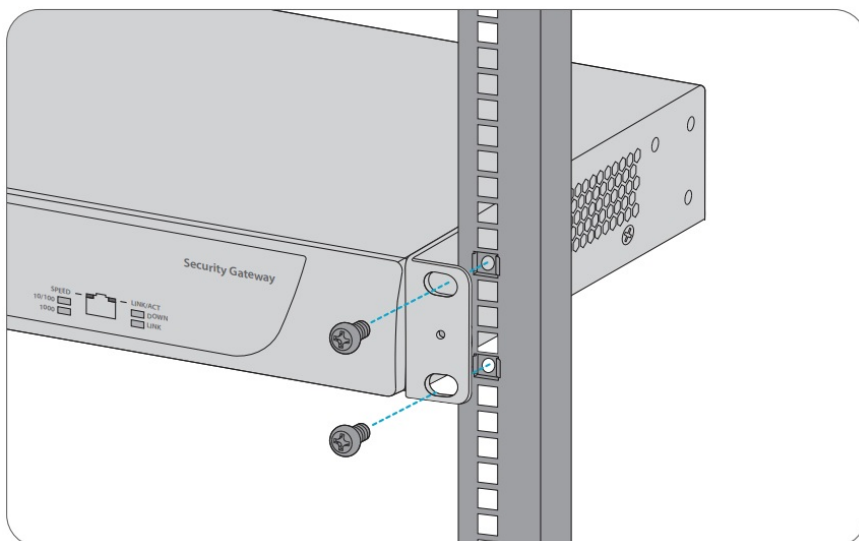


1. Attach four rubber pads to the bottom.
2. Place the chassis on a desk.

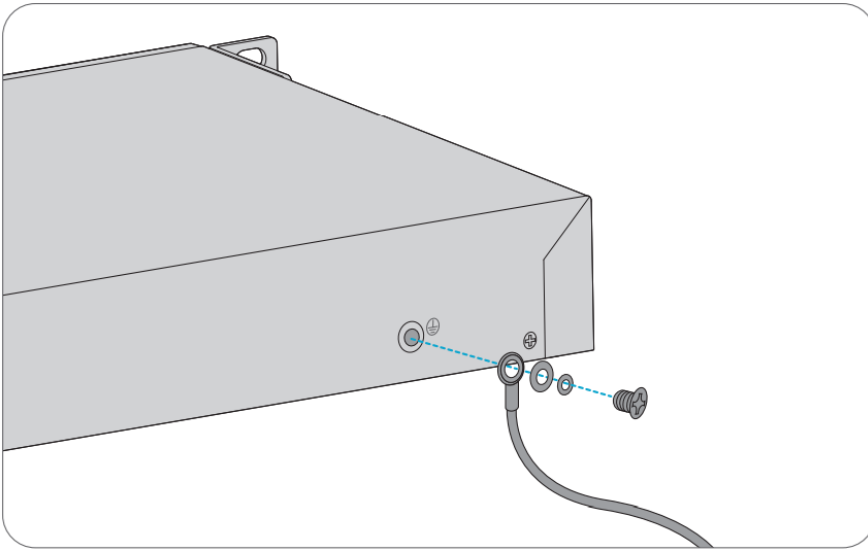
Rack Mounting



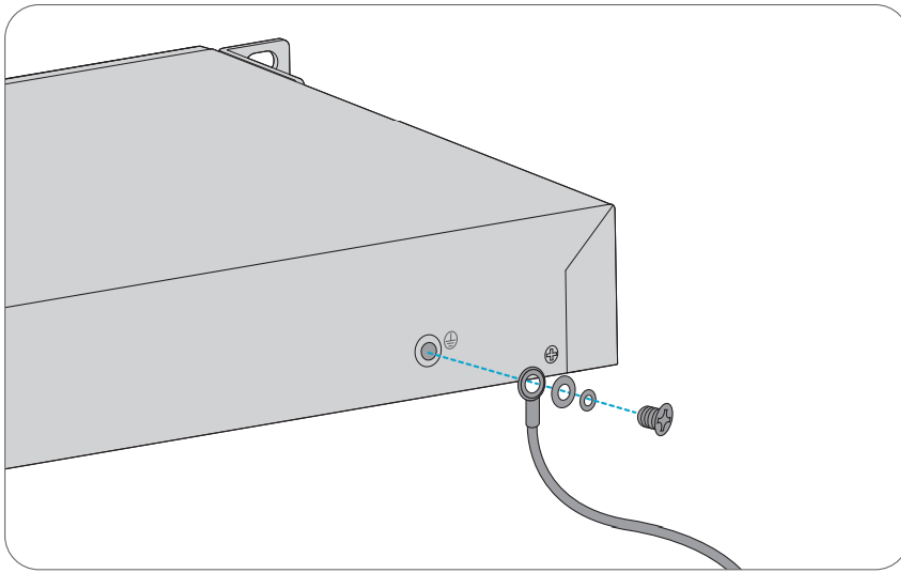
1. Secure the mounting brackets to the two sides of the gateway with six M4 screws.



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



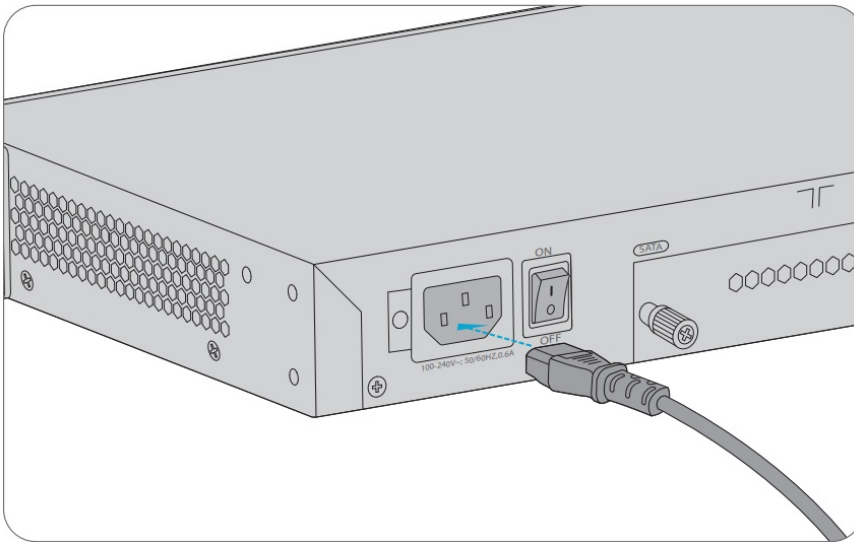
Grounding the Gateway



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

Connecting the Power

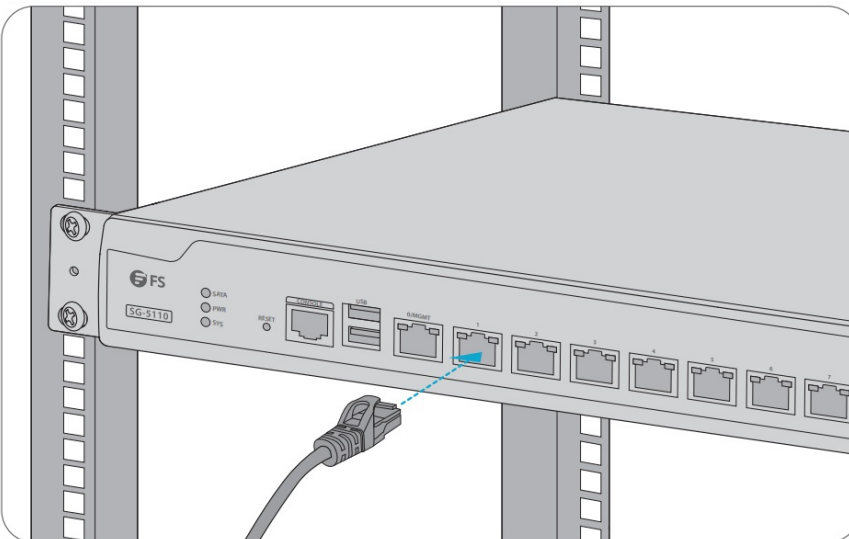
1. Plug the AC power cord into the power port on the back of the gateway.
2. Connect the other end of the power cord to an AC power source.



CAUTION: Do not install the power cord while the power is on, and when the power cord is connected, the fan will start to operate whether the power button is on or off.

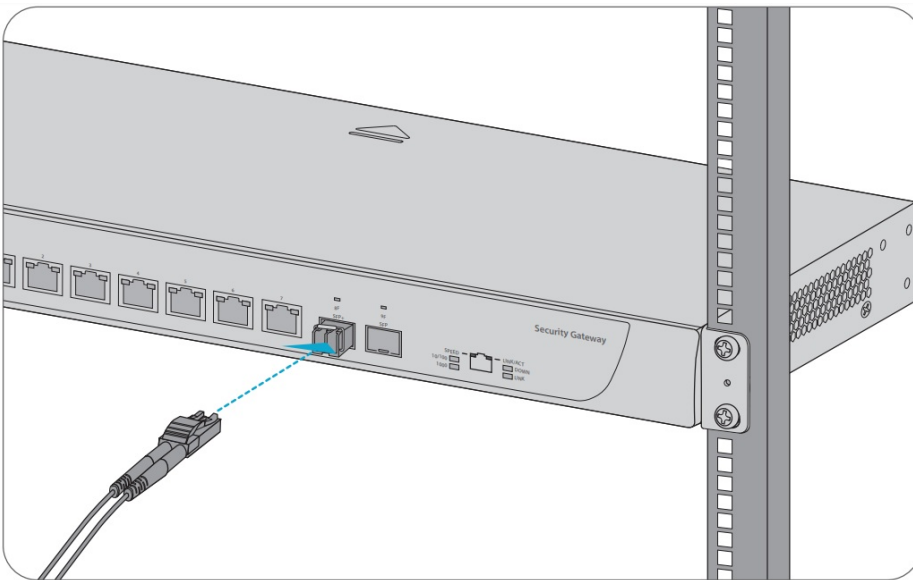
Connecting the RJ45 Ports

1. Connect an Ethernet cable to the RJ45 port of a computer or other network devices.
2. Connect the other end of the Ethernet cable to the RJ45 port of the gateway



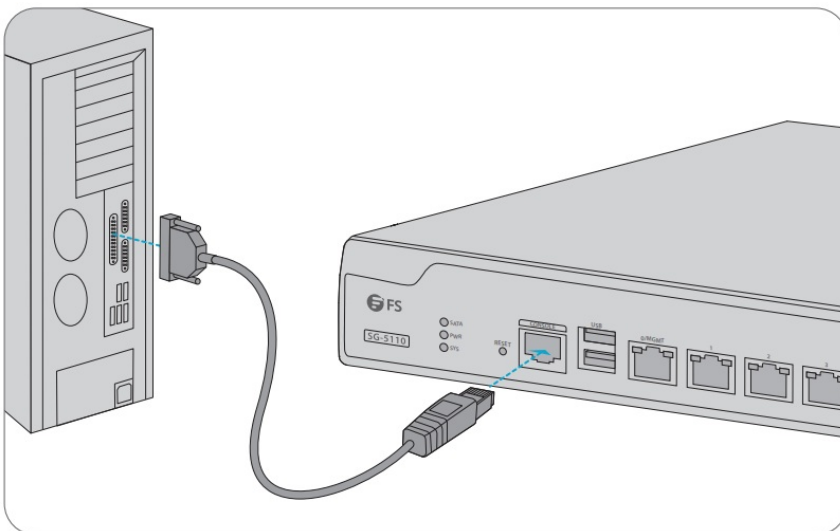
Connecting the SFP/SFP+ Ports

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



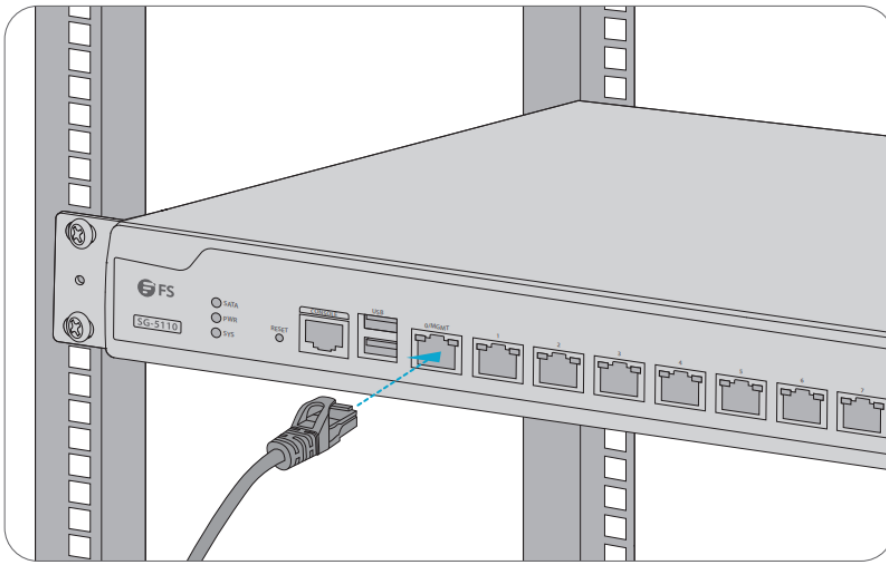
WARNING: Laser beams will cause eye damage. Do not look into bores of optical modules or optical fibers without eye protection.

Connecting the Console Port



1. Insert the RJ45 connector into the RJ45 console port on the front of the gateway.
2. Connect the DB9 female connector of the console cable to RS-232 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 gateway.

Configuring the Gateway

Configuring the Gateway Using the Web-based Interface

Step 1: Connect the computer to the Management port of the gateway 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.)

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`.



The image shows a login page for a device labeled 'FS'. At the top is the 'FS' logo. Below it, a message reads 'Internet Explorer 10/11, Google Chrome, Firefox Recommended'. There are two input fields: the first contains the text 'admin', and the second contains six asterisks '*****'. Below these fields is a dark grey button with the text 'Log In' in white.

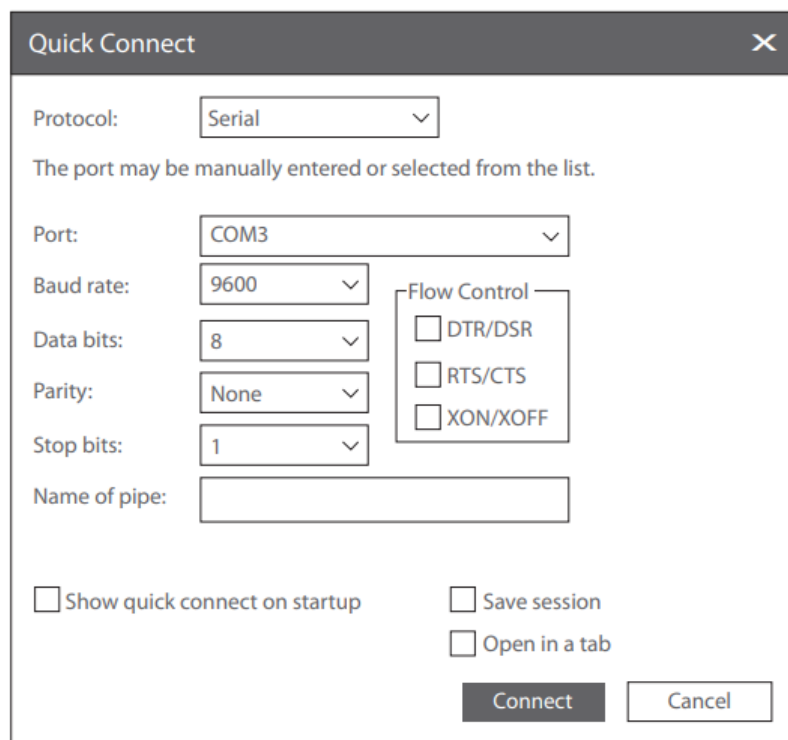
Step 4: Click Log In to display the web-based configuration page. You are then required to enter and configure a new password for the account the first time you log in.

Configuring the Gateway Using the Console Port

Step 1: Connect a computer to the gateway'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 Hyper Terminal: 9600 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 title bar and a close button. The 'Protocol' is set to 'Serial'. A note states 'The port may be manually entered or selected from the list.' The 'Port' is set to 'COM3'. The 'Baud rate' is '9600', 'Data bits' is '8', 'Parity' is 'None', and 'Stop bits' is '1'. There is a 'Name of pipe' field. A 'Flow Control' section contains three unchecked checkboxes: 'DTR/DSR', 'RTS/CTS', and 'XON/XOFF'. At the bottom, there are three unchecked checkboxes: 'Show quick connect on startup', 'Save session', and 'Open in a tab'. 'Connect' and 'Cancel' buttons are at the bottom right.

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



NOTE: If you perform remote access via SSH and Telnet, the admin password should have already been changed since the simple password is potential security hazards.

Troubleshooting

Power System Fault

According to the power indicator on the front panel, the gateway can be used to determine whether the power supply system of the gateway is faulty. If the power supply system is working normally, the power indicator should remain lit. If the power indicator light is unlit, please check the following:

1. Whether the power switch is turned on.
2. Whether the gateway power cable is connected correctly.
3. Whether the cabinet power sockets are loosely connected to power modules.



WARNING: Do not plug or pull the power cable when the power switch is already turned on.

Configuration System Troubleshooting

The console configuration terminal shows system booting message when the device is powered on. If the configuration system has failed, it displays error information or nothing at all. If the configuration terminal shows no information, please check the following:

1. Make sure the power supply is correctly connected and powered on.
2. Verify the Console cable is connected properly.
3. Ensure the terminal configuration settings are correct.

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: FS gateways enjoy 3 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

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Documents / Resources

	<p>FS SG-5105 Multi Service and Unified Security Gateways [pdf] User Guide SG-5105 Multi Service and Unified Security Gateways, SG-5105, Multi Service and Unified Security Gateways, Service and Unified Security Gateways, and Unified Security Gateways, Unified Security Gateways, Security Gateways, Gateways</p>
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References

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