



PS3108C

8-Port Web Smart GbE PoE+ Switch



QUICK INSTALLATION GUIDE

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Chapter 1 Introduction

Overview

PS3108C is a 10 ports PoE GbE Web Smart+ Switch. PS3108C provide high-performance, IEEE-compliant network solutions. They include powerful management features that you can use to boost performance, and increase productivity.

This guide describes hardware installation and basic troubleshooting for these managed switches.

Front panel of the Switch

Figure 1 Front panel of the switch

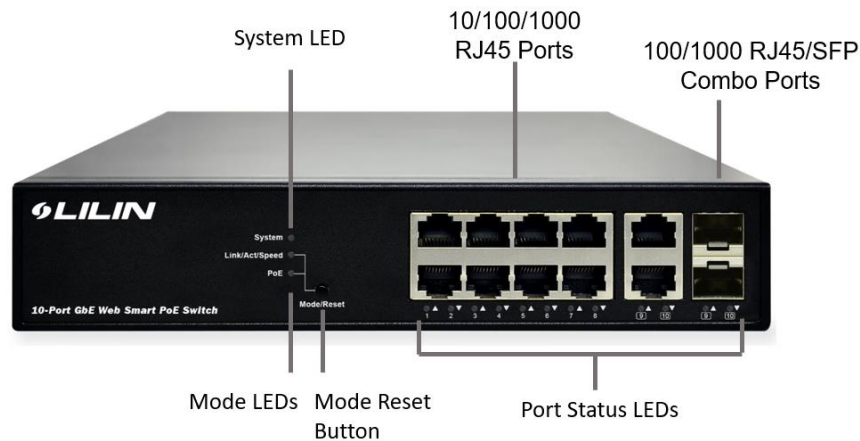


Table 1 Port Status LEDs

LED	Condition	Status
TP (Link/Act/Speed)	Green/Blink	Lit Green when TP link on 1000Mbps Amber when TP link on 10/100Mbps
TP (PoE)	Green/Off	Lit Green when PoE link good
SFP (Link/Act/Speed)	Green/Blink	Lit Green when SFP link good Lit Green when SFP link on 1000Mbps. Amber when SFP link on 100Mbps

Table 2 System Status LED

SYSTEM LED	Condition	status
System	Green OFF	Lit when power is coming up

Table 3 Mode Status LED

LED	Condition	Status
Link/ACT/Speed	Green	Green when the link on 1000Mbps
	Yellow	Yellow when the link on 100Mbps
	OFF	Off when the link on 10Mbps
PoE	Green	Lit Green shows all LED of each port are in PoE
	OFF	Mode

Rear panel of the Switch

Figure 2 Rear panel of the switch



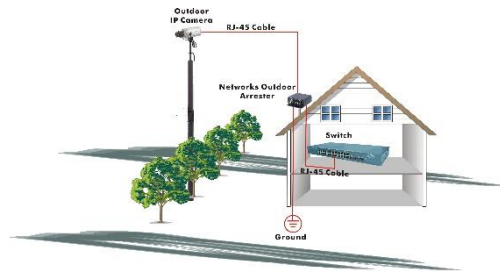


CAUTION: Circuit devices are sensitive to static electricity, which can damage their delicate electronics. Dry weather conditions or walking across a carpeted floor may cause you to acquire a static electrical charge.

To protect your device, always:

- Touch the metal chassis of your computer to ground the static electrical charge before you pick up the circuit device.
- Pick up the device by hold it on the left and right edges only.
- If you use outdoor device connected to switch with cable then you need to install a surge arrester in between outdoor device and switch.

Figure 3 Add a surge arrester between outdoor device and switch



NOTE: The switch is an indoor device; if it is to be used with outdoor devices such as outdoor IP camera or outdoor WiFi AP, then users must install a surge arrester to protect the switch



WARNING:

- Self-demolition on Product is strictly prohibited. Damage caused by self-demolition will be charged for repairing fees.
- Do not place the switch in outdoor environment.
- Before installation, please make sure the input power source meeting the product specification
- Before importing / exporting configuration file, please make sure the firmware version is always the same.

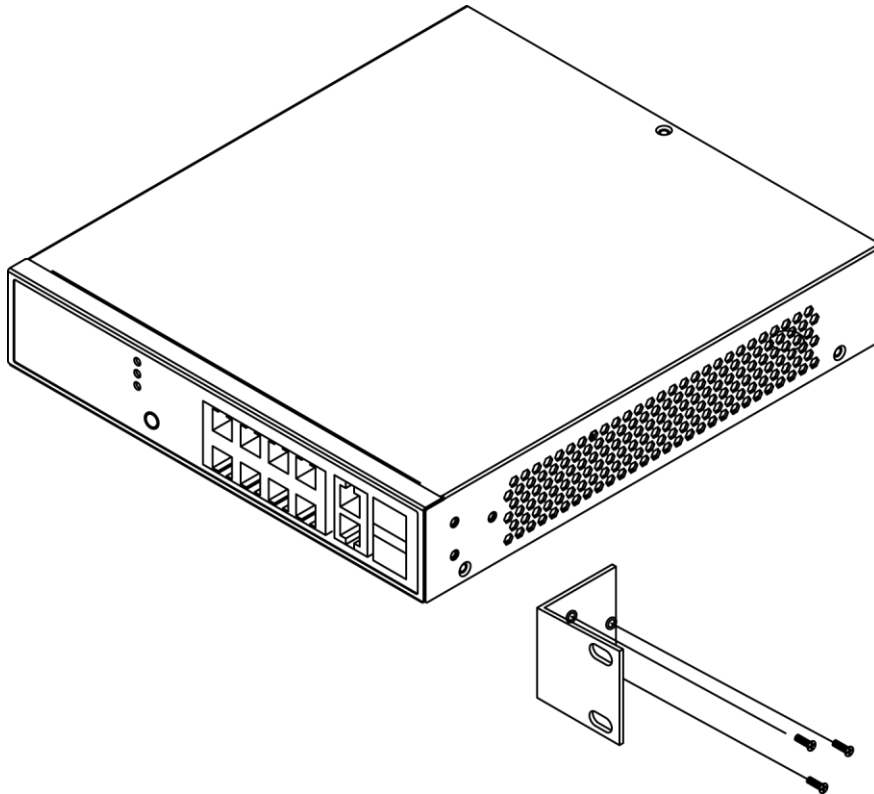
Package Contents

- PS3108C GbE Management Switch
- Four adhesive rubber feet
- Mounting Accessory (for 19" Rack Shelf, Optional)
- Installation Guide
- AC Power cord

Mounting the Switch in a 19-inch Rack

Step1. Attach the mounting brackets to both sides of the chassis with screws.

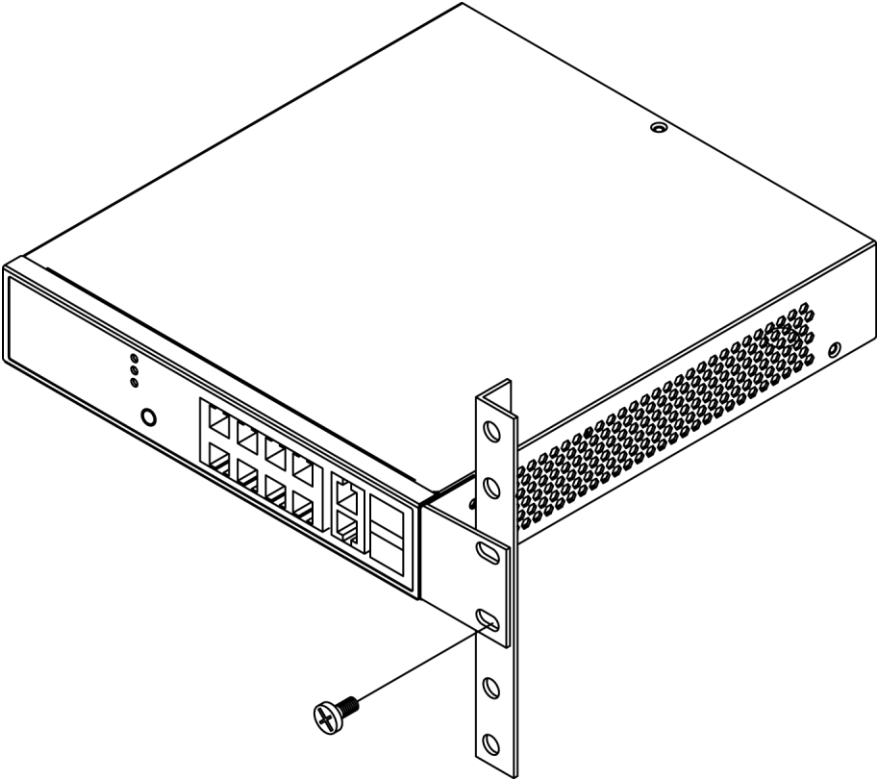
Figure 4 Attaching mounting brackets to the switch



Step2. Place the switch on a rack shelf in the rack. Push the switch in until the oval holes in the brackets align with the mounting holes in the rack posts.

Step3. Attach the mounting brackets to the rack posts with screws.

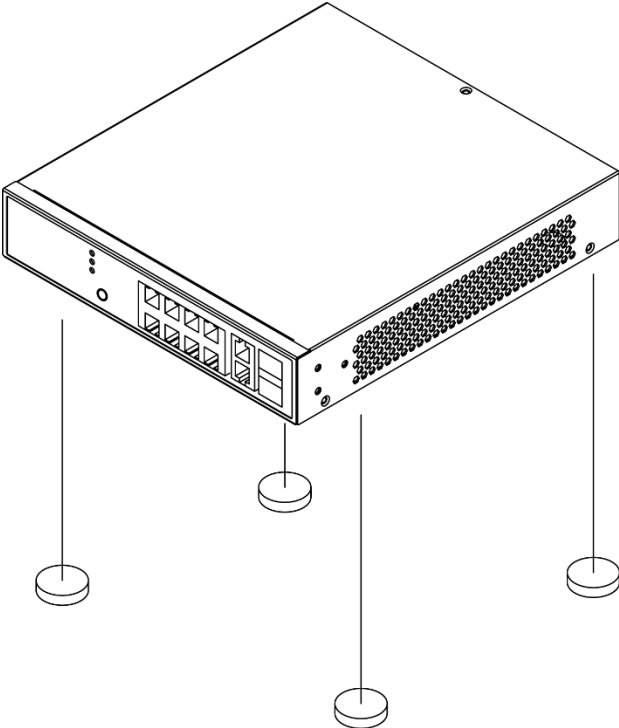
Figure 5 Attaching mounting brackets to the rack post



Mounting the Switch on Desk or Shelf

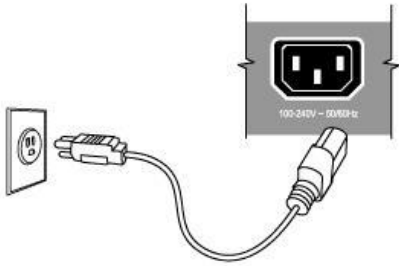
- Step1.** Verify that the workbench is sturdy and reliably grounded.
- Step2.** The rubber feet are included in the accessory kit. Attach the four adhesive rubber feet to the bottom of the switch.

Figure 6 Attaching the Rubber Feet



Connecting the AC Power Cord

Figure 7 Connecting the AC power cord to the AC power receptacle



Step1. Connect one end of the AC power cord to the AC power receptacle on the switch.

Step2. Connect the other end of the AC power cord to the AC power outlet.

Step3. Examine the power LED. If it is ON, the power connection is correct.

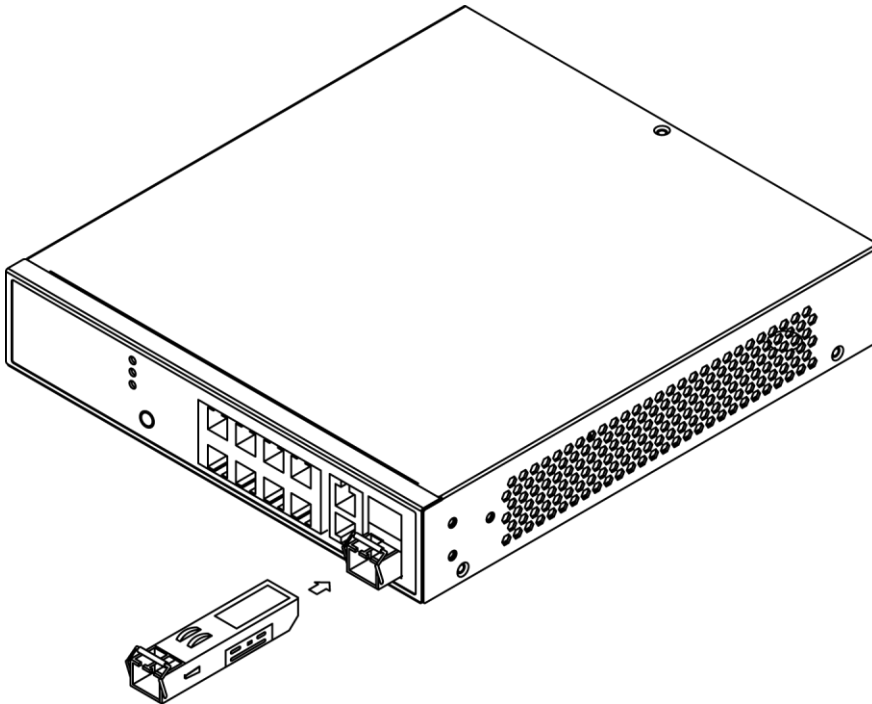
Installing SFP Modules

You can install or remove a mini-GBIC SFP from a mini-GBIC slot without having to power off the switch. Use only Manufacture mini-GBIC:

Step1. Insert the module into the switch port.

Step2. Press firmly to ensure that the module seats into the connector.


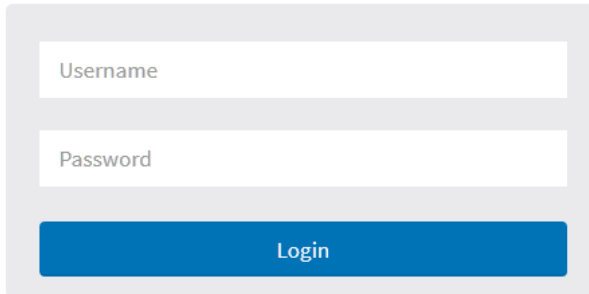
Figure 8 Installing a SFP Module into a SFP Module Slot



Manage the Switch Using Web Browser

After you power up the switch for the first time, you can configure the switch using a web browser. For more information about managing the switch, see the user interface manual.

Figure 9 Web Interface login page

The image shows the LILIN logo at the top. Below it is a login form with two input fields: 'Username' and 'Password'. Below the fields is a blue button labeled 'Login'.

Step1. Power on the computer and the switch.

Step2. Plug in the power cable.

Step3. Set the IP configuration on your computer.



NOTE:

1. If the switch is using the factory default IP address of 192.168.0.1, you must choose an IP address for the computer in the range of 192.168.0.1—192.168.0.253 that is not already in use.
 2. If the IP addresses is assigned by a DHCP server, make sure the DHCP server is running and can be reached from the switch and the computer. It might be necessary to disconnect and reconnect the devices for them to discover their new IP addresses from the DHCP server.
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Step4. Enter the user name and password (The default username is “admin” and password is “admin”), and then click “Login” to login to the switch configuration window.

Troubleshooting Chart

The following table lists Issues, Causes, and Action to possible problems.

Table 4 Troubleshooting Chart

Issues	Cause	Action
SYSTEM LED Off	No power is received.	<p>Check the power cord connections for the switch at the switch and the connected device.</p> <p>Make sure that all cables used are correct and comply with Ethernet specifications.</p>
Link LED Off	Port connection is not working.	<ul style="list-style-type: none"> • Check the crimp on the connectors. Make sure that the plug is fully inserted and locked into the port at both the switch and the connecting device. • Make sure that all cables used are correct and comply with Ethernet specifications. • Check for a defective adapter card, cable, or port by testing it in an alternate environment where all products are functioning.
Slow file transfer or there is performance degradation.	Half- or full-duplex setting on the switch and the connected device are not the same.	<ul style="list-style-type: none"> • Make sure that the attached device is set to auto negotiate. • Check the system message log.
Device is not recognized as part of the network.	One or more devices are not properly connected, or cabling does not meet Ethernet guidelines.	Verify that the cabling is correct. Be sure that all connectors are securely positioned in the required ports. Equipment might have been accidentally disconnected.

Appendix A Technical Specifications

Hardware Specification

Table 5 Hardware Specification

Port Configuration	
10M/100M/1G RJ45 Port	8
100M/1G/2.5G RJ45 Port	--
100M/1G/10G RJ45 Port	--
100M/1G SFP Port	--
1G/2.5G SFP Port	--
1G/10G SFP+ Port	--
GbE RJ45/SFP Combo Port	2
Console Port	--
Total Ports	10
PoE Function	
IEEE802.3at (PoE+ 30W)	Y
IEEE802.3af (PoE 15.4W)	Y
UPoE(60W)	--
PoE Port	8
Available PoE Power	130W
HW Performance	
Switching Bandwidth	20Gbps
Forwarding Performance	14.9Mpps
MAC Address	8K
Jumbo Frames	9216 Bytes
Environmental Specification	
Operating Temperature	0°C to 45°C
Operating Humidity	10 to 90% RH
Storage Temperature	-20 to 70°C
Storage Humidity	10 to 90% RH
Mechanical Specification	
Dimensions (H) x (W) x (D) mm	44 x 220 x 242
Weight	2.1 Kg
FAN Less	Y
Power Source	
AC Input	100V-240V
DC Input	--
AC/DC Dual Input	--

1000 MBPS Gigabit Ethernet Collision Domain

Table 6 Maximum 1000BASE-T Gigabit Ethernet Cable Length

Cable Type	Maximum Cable Length	Connector
Category 5, 5e or 6 100-ohm UTP or STP	100.m (328 ft)	RJ-45

Table 7 Maximum 1000BASE-SX Gigabit Fiber Cable Length

Fiber Size	Fiber Bandwidth	Maximum Cable Length	Connector
62.5/125 micron multimode fiber	160 MHz/km	220 m (722 ft)	LC
	200 MHz/km	275 m (902 ft)	LC
50/125 micron multimode fiber	400 MHz/km	500 m (1641 ft)	LC
	500 MHz/km	550 m (1805 ft)	LC

Table 8 Maximum 1000BASE-LX/LHX/XD/ZX Gigabit Fiber Cable Length

Fiber Size	Fiber Bandwidth	Maximum Cable Length	Connector
9/125 micron single-mode fiber 1310nm	N/A	10km (6.2 miles)	LC
9/125 micron single-mode fiber 1550nm	N/A	30km (18.64 miles)	LC
		50km (31.06 miles)	LC

Table 9 Maximum 1000BASE-LX Single Fiber Gigabit Fiber Cable Length

Fiber Size	Fiber Bandwidth	Maximum Cable Length	Connector
Single-mode TX-1310nm RX-1550nm	N/A	20km (12.42miles)	BIDI
			LC
Single-mode TX-1550nm RX-1310nm	N/A	20km (12.42miles)	BIDI
			LC