

Quick Installation Guide

L3 Managed PoE Switch
G5328P-24-410W

Package contents

- Switch x 1
- Power cord x 1
- Console cable x 1
- Footpad x 4
- Screw x 8
- L-shaped bracket x 2
- Quick installation guide x 1

This quick installation guide instructs how to install, connect and log in to the device. For details, please download the user guide of the device.

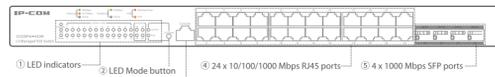
Chapter 1 Product introduction

1.1 Overview

The G5328P-24-410W is an IP-COM managed switch designed for medium to large network deployment in such scenarios as enterprise campuses or hotels. With 4 independent gigabit SFP ports, the switch can meet the demand of long-distance transmission of mass data. Meanwhile, the switch provides security functions, such as 802.1x authentication and ARP attack defense, multiple ACL/QoS policies, and IEEE 802.1q VLAN function, fully satisfying users' demands for easy management of network devices, high-level security, and low cost for networking.

1.2 Appearance

• Front panel



① LED indicators

LED indicators of this switch include a PoE-Max LED indicator, a SYS LED indicator, a Power LED indicator, 24 Link/Act or PoE LED indicators, 4 Link/Act LED indicators, and 2 LED Mode LED indicators. They can help you understand working statuses of the switch. Detailed descriptions are shown in the following table.

LED indicators	Description
PoE-Max	Solid on: The total output power of the switch reaches the maximum value. Off: The total output power of the switch does not reach the maximum value.
SYS	Blinking: The system works properly. Solid on: The system is not working properly. Off: The system is starting up or not working properly.
Power	Solid on: The switch is powered on properly. Off: The switch is not powered on, or not powered on properly.
Link/Act or PoE	Link/Act and PoE multipurpose LED indicator: It indicates the connection status or PoE power supply status of RJ45 ports based on the converted status of the LED Mode button. Blinking: Data is being transmitted over the corresponding port. Solid on: The corresponding port is connected to a network device, but no data is being transmitted over the port. Off: The corresponding port is not connected or is not connected properly. Green light indicates that the negotiation rate of the corresponding port is 1000 Mbps, and orange light indicates a rate of 10 Mbps or 100 Mbps. When the PoE LED indicator of LED Mode is solid on, the descriptions of the Link/Act or PoE LED indicators are shown as follows: Solid orange: The corresponding port supplies PoE power to a device properly. Blinking orange: The corresponding port is not supplying PoE power to a device properly. Off: The corresponding port does not supply PoE power.
Link/Act	Solid on: The corresponding port is connected, but no data is being transmitted over the port. Blinking: Data is being transmitted over the corresponding port. Off: The corresponding port is not connected or is not connected properly.

② LED Mode button

This multipurpose button is for both LED indicator converting button and reset button. Press the LED Mode button to convert the mode of the Link/Act or PoE LED indicator.
When the Link/Act LED indicator of LED Mode is solid on, the Link/Act or PoE LED indicator is in the Link/Act mode.
When PoE LED indicator of LED Mode is solid on, the Link/Act or PoE LED indicator is in the PoE mode.
Tips: After the switch is restored to factory settings or rebooted, the Link/Act or PoE LED indicator is restored to the Link/Act mode.

When the Power LED indicator is solid on and the SYS LED indicator is blinking, hold down the LED Mode button for about 10 seconds, and release it when all LED indicators light up. The switch is restored to factory settings when the Power LED indicator is solid on and the SYS LED indicator blinks again.

③ Console port

The switch provides a Console port for technical support and maintenance. The procedures of configuring the switch through the Console port are as follows:

Step 1 Use the included console cable to connect a terminal, which is a computer in this example, to the switch. Connect the side A of the console cable to the computer, and the side B to the Console port of the switch.



Step 2 Configure the parameters on the computer. Run the connection software of console port on the computer. Putty is taken as an example.

Set the **Connection type** to **Serial**, **Speed** to **115200**, and click **Open** on the lower right corner.



Step 3 Log in to the command line interface of the switch. Double press **Enter** on your keyboard, and enter the user name and password (both are **admin** by default) of the switch in the appeared window as shown below.



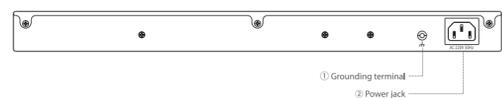
④ 24 x 10/100/1000 Mbps RJ45 ports

The switch provides 24 10/100/1000 Mbps auto-negotiation RJ45 ports. All ports support the auto MDI/MDIX function, so both a straight cable and a crossover cable can be used to connect the switch to Ethernet devices. Meanwhile, the switch supports the IEEE 802.3af and IEEE 802.3at standards, so can supply power to PoE powered devices compliant with these two standards. Each port has a corresponding Link/Act or PoE LED indicator.

⑤ 4 x 1000 Mbps SFP ports

The switch provides 4 independent 1000 Mbps SFP ports, and having a corresponding Link/Act LED indicator.

• Rear panel



① Grounding terminal

Connect the grounding terminal to a grounding cable to protect your switch against lightning. Refer to 2.4 Grounding for detailed instructions.

② Power jack

Use the included power cord to connect the power jack to a power source for power supply.

Chapter 2 Device installation

2.1 Installation notes

Follow the notes below to avoid device damages or personal injuries caused by misoperation.

• Safety precautions

- Wear the ESD bracelet or gloves before installation and do not power on the switch before finishing installation.
- Use the included power cord to supply power to the switch.
- Make sure that the input voltage matches the value of the switch specified in this guide.
- Do not remove the housing of the switch.
- Disconnect the switch from the power supply before cleaning it. Do not scrub the switch with any liquid.
- Position the switch away from power line, electric lamp, or power system.

Note: There is a void sticker covering one of the screws on the housing of the switch. Do not remove the sticker without permission of the local agent. Otherwise you shall be responsible for any damage.

• Environment requirements

• Anti-static precautions

- Electrostatic adsorption occurs if dust falls onto the switch, which may cause poor metal contact that prevents the switch from working properly. To eliminate this problem, pay attention to the following:
 - Keep the air in the ambient environment clean. Regularly perform dusting.
 - Make sure that the switch is grounded properly.

• Lightning protection

- In thunderstorm weather, a sudden current caused by lightning stroke may damage the switch. To protect the switch against lightning stroke or strong current:
 - Make sure that the device and the workbench or subrack where the switch is mounted and receptacle in the wall are all properly grounded.
 - Connect cables to the switch properly to avoid internal lightning induction.
 - If outdoor cabling is required, you are recommended to deploy a signal lightning arrester.

• Mounting requirements

- Follow the instructions below:
 - Keep the desktop stable and sturdy enough.
 - Place the switch in a clean, dry and well-ventilated environment. Leave a gap of at least 10 cm on all sides for cooling.
 - Do not place any heavy or big object on the switch.
 - Leave a vertical distance of at least 1.5 cm between each device if the device to be installed in stack.

2.2 Installation tools

Tools you may need to prepare by yourself:

- Phillips screwdriver
- ESD bracelet or gloves

2.3 Installation

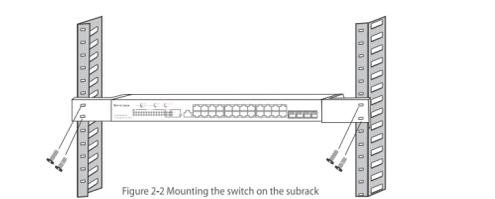
If you have a 19-inch subrack, you can choose either desktop or rack mounting to install your switch. Otherwise, you can only desktop mounting.

• Rack mounting

Step 1 Ensure that the subrack is stable and level, and is properly grounded.
Step 2 Fix L-shaped brackets to the switch with screws. See the following figure.



Step 3 Mount the switch at a proper height on the subrack and fix it to the rack with screws.



• Desktop mounting

Paste the four footpad stickers to the corresponding four recesses on the bottom of the switch. Then place the switch right-side up on a big enough, clean, stable and flat desktop.

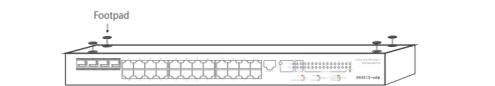


Figure 2-3 Desktop mounting

2.4 Grounding

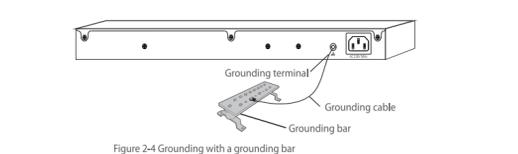
Grounding is important for lightning protection, anti-interference, and personal safety. Select the proper method to ground your switch according to the installation environment.

• With a grounding bar

If a grounding bar is available at the installation site, use either of the following installation methods to ground the switch.

A. Connect the switch to the grounding bar directly.

Step 1 Connect one end of the grounding cable to the binding post on the grounding bar.
Step 2 Connect the other end of the grounding cable to the grounding terminal and fasten the screw.



B. Connect the switch to another grounded device.

Step 1 Connect one end of the grounding cable to the grounding terminal of a grounded device and fasten the screw.
Step 2 Connect the other end of the grounding cable to the grounding terminal of the switch and fasten the screw.

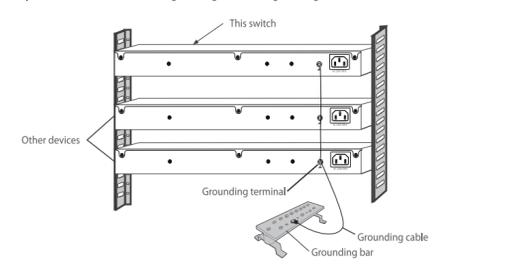
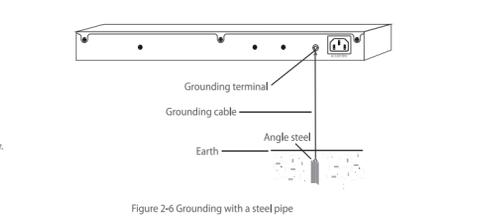


Figure 2-5 Grounding with another grounded device

Note: Connect the grounding cable to the grounding system in the equipment room. Do not connect it to a fire main or lightning rod.

• Without a grounding bar

If there is no nearby grounding bar but earth and the grounding body is allowed to be buried, refer to the following steps:
Step 1 Bury an angle steel or steel pipe (Length ≥ 0.5 m) into the land.
Step 2 Weld one end of the grounding cable to the angle steel or steel pipe and protect the welding point against corrosion.
Step 3 Connect the other end of the grounding cable to the grounding terminal and fix the screw.



If neither the ground bar nor the environment for burying the grounding body is available, you can use the protecting earth (PE) wire. Make sure that the PE wire of the AC power supply has been well grounded in the power distribution room or at the side of the AC power supply transformer.

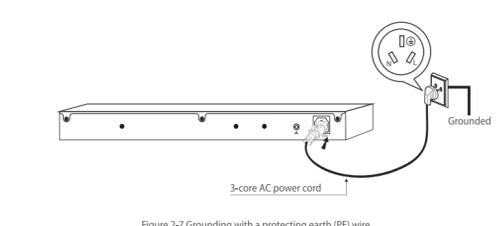


Figure 2-7 Grounding with a protecting earth (PE) wire

Chapter 3 Physical connection

3.1 Connect the switch to a peer device

Refer to the following network topology to connect the switch to other network devices.

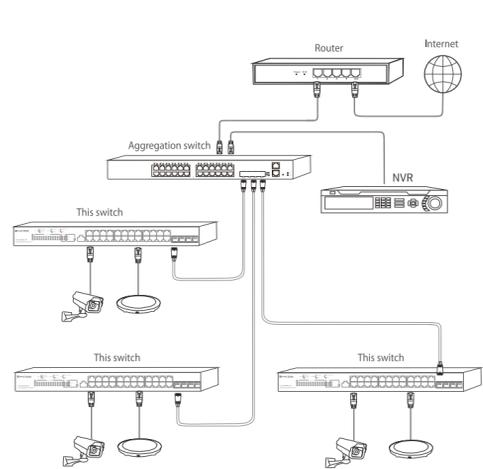


Figure 3-1 Network topology

3.2 Check the cabling

Once the installation is completed, check the cabling of the switch by referring to the following steps:

- Check whether the power supply is accord with the rated input standard.
- Check whether port cables and grounding cable are correctly connected.
- If an outdoor cable is required, check whether a signal lightning arrester is connected to the cable before you connect the cable to the port.

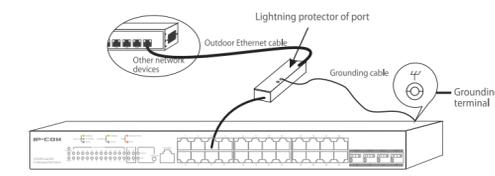


Figure 3-2 Lightning protector connection

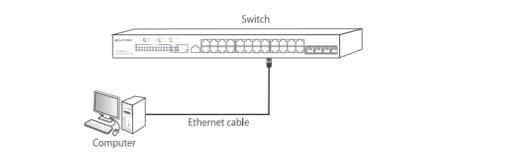
3.3 Power on the switch

Use the included power cord to connect the switch to a power source. After the switch is powered on, the LED indicators statuses are as follows:

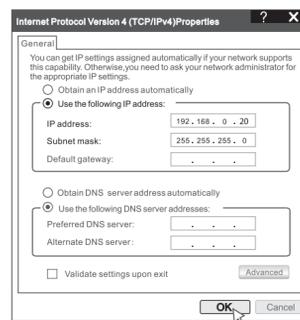
- The Power LED indicator is solid on.
- The SYS LED indicator blinks.
- The Link/Act or PoE LED indicator corresponding to the port, which is connected to a peer device, is solid on or blinking.
- The Link/Act LED indicator corresponding to the SFP port, which is connected to a peer device, is solid on or blinking.
- The Link/Act LED indicator of LED Mode is solid on.

Chapter 4 Login

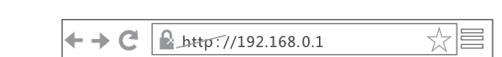
Step 1 Use an Ethernet cable to connect a computer to a RJ45 port of the switch.



Step 2 Set the IP address of the computer to 192.168.0.X (X ranges from 2 to 254 and is not be occupied) and subnet mask to 255.255.255.0.



Step 3 Start a web browser (example: Chrome) on the computer, enter 192.168.0.1 in the address bar, and press **Enter** on the keyboard.



Step 4 On the login page of the switch, enter the login user name and password (both are **admin** by default), and click **Login**.



Login to the web UI of the switch succeeded. You can configure the switch now.

Appendix A FAQ

1. I cannot log in to the web UI of the switch. What should I do?

Try the following solutions:

- Check whether the switch is powered on properly.
- Check whether the computer is connected to the switch properly.
- Check whether the IP address of the computer is set to 192.168.0.X (X ranges from 2 to 254 and is not be occupied).
- Clear the cache of the web browser or try another web browser.
- Disable the firewall of the computer, or try another computer.
- Check whether only one device with the IP address 192.168.0.1 exists in the local network.
- If the problem persists, reset the switch and try again.

Reset method: When the Power LED indicator is solid on and the SYS LED indicator is blinking, hold down the LED Mode button for about 10 seconds, and release it when all LED indicators light up. The switch is restored to factory settings when the SYS LED indicator blinks again.

2. I forget the login user name and password when logging in to the web UI. What should I do?

Try entering the default login user name and password (both are **admin**). If failed still, reset the switch, and then use the default user name and password to log in.

3. Power system malfunction processing method

You can determine whether the power system malfunctions according to the Power LED indicator on the front panel of the switch. When the power system works properly, the Power LED indicator is solid on. If the Power LED indicator does not light up, perform the following operations:

- Check whether the switch is properly connected to a power source using the included power cord.
- Check whether the input voltage matches the value required by the switch.

Appendix B Specifications

Port	Number of 10/100/1000 Mbps RJ45 port	24
	Number of 1000 Mbps SFP port	4 independent SFP ports
	Console port	1 Baud rate: 115200
Performance	Exchange mode	Store-and-forward
	MAC address table learning	Auto aging, auto learning
	MAC address table	16 K
PoE	PoE standard	IEEE 802.3af, IEEE 802.3at
	PoE power cable core	8 cores: voltage of cores 1, 2, 4, 5 is +, and cores 3, 6, 7, 8 is -
	PoE port	1 to 24
Maximum output power of a single port	30 W	
	Maximum output power of the switch	370 W
Dimensions (L x W x H)	440 mm x 284 mm x 44 mm	
Input power	AC 100 - 240V, 50/60Hz, 6A	
Lightning protection	RJ45 port	Common mode: 6 kV
	Power	Common mode: 6 kV; Differential mode: 4 kV
Operating environment	Temperature: 0°C - 45°C Humidity: (10% - 90%) RH non-condensing	
Storage environment	Temperature: -40°C - 70°C Humidity: (5% - 90%) RH non-condensing	
Data transmission rate	Ethernet: 10 Mbps (half duplex)/20 Mbps (full duplex) Fast Ethernet: 100 Mbps (half duplex)/200 Mbps (full duplex) Gigabit Ethernet: 2000 Mbps (full duplex)	
Transmission media	Ethernet: CAT3 UTP/STP or better Fast Ethernet: CAT5 UTP/STP or better Gigabit Ethernet: CAT5e or CAT6 UTP/STP	
Standard	IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3z, IEEE 802.3ab, IEEE 802.3af, IEEE 802.3at, IEEE 802.1d, IEEE 802.1p, IEEE 802.1q, IEEE 802.1w, and IEEE 802.1s	

Appendix C Safety and statement



CE Mark Warning

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

The mains plug is used as disconnect device, the disconnect device shall remain readily operable.

NOTE: (1) The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. (2) To avoid unnecessary radiation interference, it is recommended to use a shielded RJ45 cable.



FCC Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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.

Caution!

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: (1) The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. (2) To avoid unnecessary radiation interference, it is recommended to use a shielded RJ45 cable.



RECYCLING

This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment.

User has the choice to give his product to a competent recycling organization or to the retailer when the buys a new electrical or electronic equipment.

Technical support

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