

IP-COM

Quick Installation Guide

L3 Managed Switch
G5312F/G5328F

Package contents

- Switch x 1
- L-shaped bracket x 2
- Screw (KM3*8 mm, head diameter: 6 mm) x 8
- Power cord x 1
- Footpad x 4
- Console cable x 1
- Quick installation guide x 1

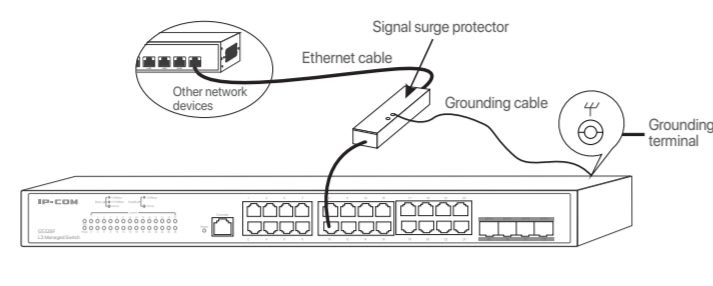
This guide instructs how to install, connect and log in to the device with the example of G5328F. For details, please visit www.ip-com.com.cn to download the user guide of the device.



1 Device installation

1.1 Safety precautions

- Follow the notes below to avoid device damages or personal injuries caused by improper operations.
- Use the ESD bracket 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 touch any ventilation openings.
- Do NOT remove the housing of the switch.
- Keep the operating environment clean and regularly clean 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.
- Do NOT place any heavy item on top of the switch.
- If an outdoor cable is required, check whether the signal surge protector and AC surge arrester are connected to the switch.



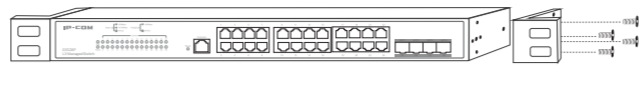
Note: There is a void sticker covering one of the screws on the housing of the switch. Do NOT remove the sticker without permission of the local agent. Otherwise you shall be responsible for any damage!

1.2 Preparing for installation

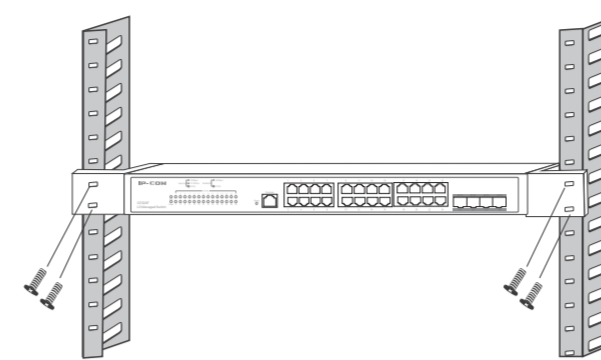
- Rack mounting: ESD bracket or gloves, screwdriver, 4 screws (suitable for securing the switch to the rack)
- Wall mounting: ESD bracket or gloves, marker, hammer, drill, rubber hammer, 4 expansion bolts (M5*40 mm), screwdriver, 4 screws (PA 5*25 mm, head diameter: 10 mm)
- Desktop mounting: ESD bracket or gloves.

1.3 Installation

- Mounting to a standard 19-inch rack**
- Step 1** Ensure that the rack is stable and level, and is properly grounded.
- Step 2** Fix the 2 L-shaped brackets to both sides of the switch with the included screws.



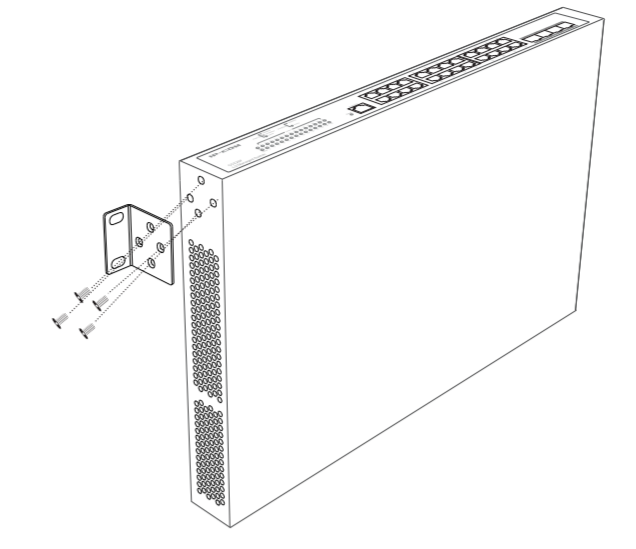
Step 3 Mount the switch at a proper height on the rack and fix the L-shaped brackets to the rack with screws (self-prepared). Ensure that the switch is stable on the rack.



Mounting to the wall

- Note: The switches can only be installed on non-flammable walls, such as a concrete wall.
- Do NOT install the switches with ventilation openings facing downward, otherwise, there will be potential safety hazards.
- The screws are only suitable for mounting at heights > 2m.

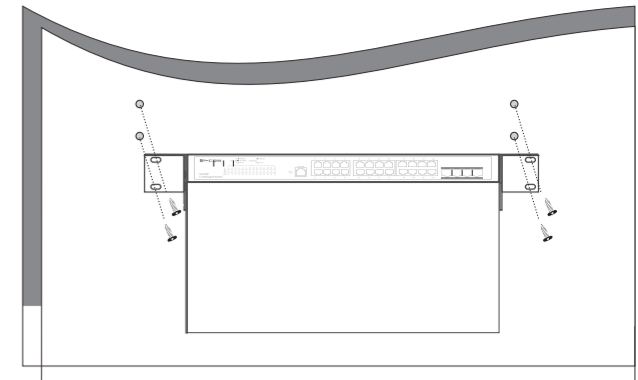
Step 1 Fix the 2 L-shaped brackets (rotated by 90 degrees) to both sides of the switch with the included screws.



Step 2 Place the switch horizontally onto the wall with its RJ45 ports facing upward, and then mark the positions of the screw holes with the marker.

Step 3 Drill holes in the marked positions, and then hammer the expansion bolts into the holes.

Step 4 Secure the screws (self-prepared) passing through the L-brackets into the expansion bolts with a screwdriver. Ensure that the switch is installed firmly with the RJ45 ports facing upward.



Technical Support

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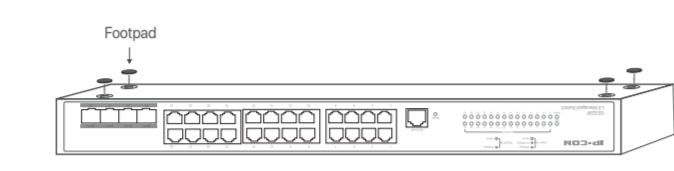
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V2.0 Keep for future reference

Mounting on the desktop

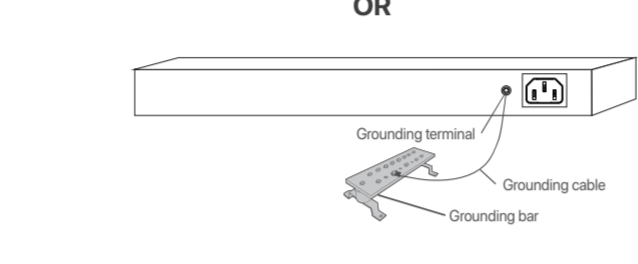
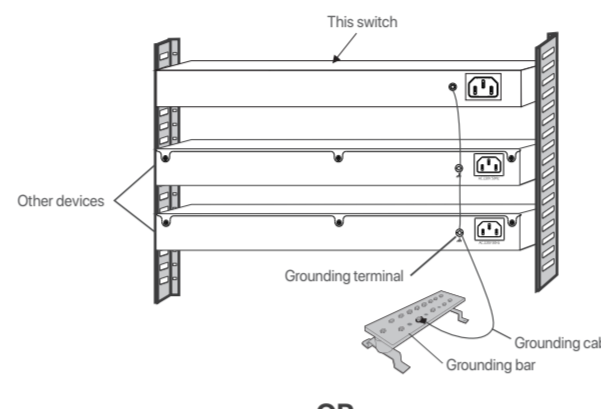
- Paste the four footpad stickers to the corresponding four recesses on the bottom of the switch.
- Then turn the switch upside down, and place it horizontally on a big enough, clear, stable and flat desktop.



1.4 Grounding

Grounding is important for lightning protection, anti-interference, and personal safety.

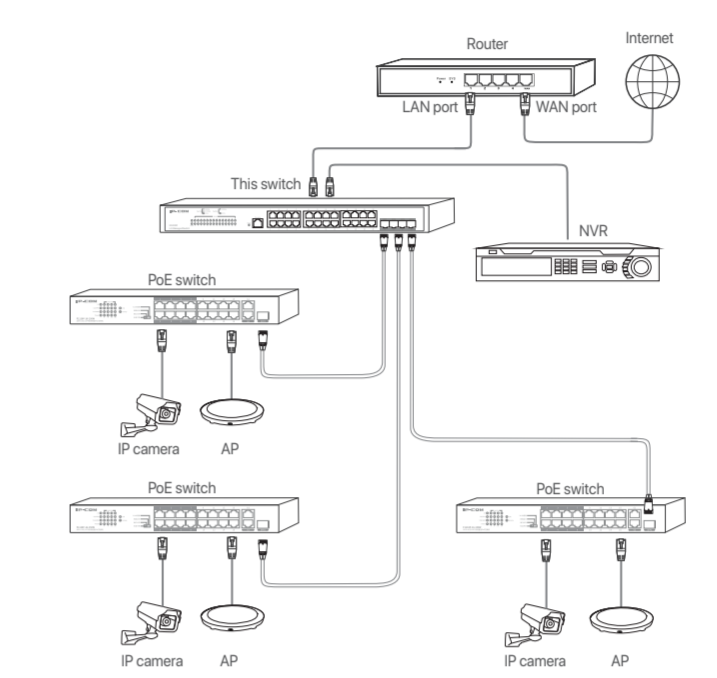
- Step 1** Connect one end of the grounding cable to the grounding terminal of the switch.
- Step 2** Connect the other end of the grounding cable to another grounded device or to the binding post on the grounding bar.



Note: Connect the grounding cable to the grounding system in the equipment room. Do NOT connect it to a fire alarm signaling unit.

2 Physical connection

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



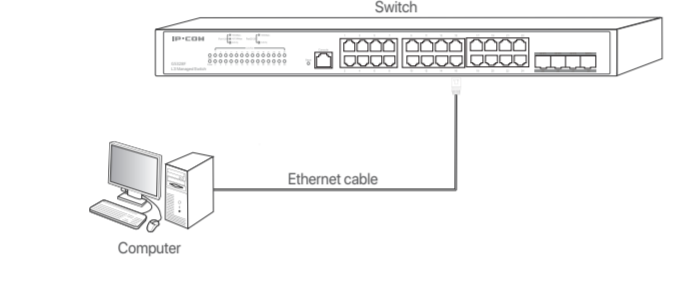
After connection, please check whether the switch is connected properly according to the following table.

LED indicator	Description
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	Solid on: The port is connected to a device, but no data is being transmitted over the port. Blinking: Data is being transmitted over the port. Off: The port is not connected or is not connected properly. Green light indicates that the negotiation rate of the port is 1000 Mbps, while orange light indicates a rate of 10 Mbps or 100 Mbps.

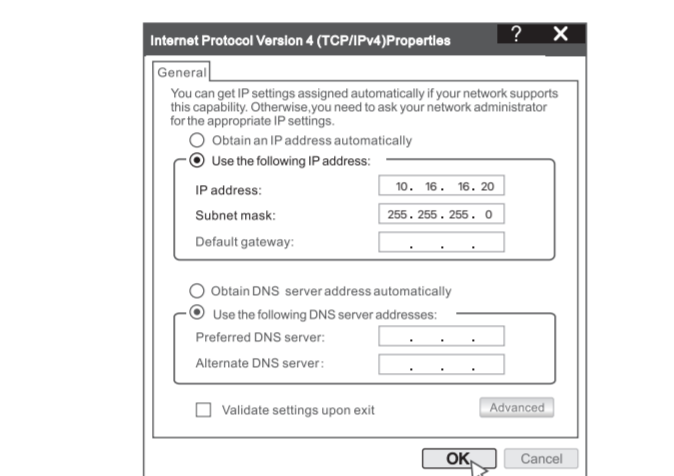
Tips
The switch supports auto MDMOIX, so both a straight cable or a crossover cable can be used to connect the switch to Ethernet devices.

3 Login

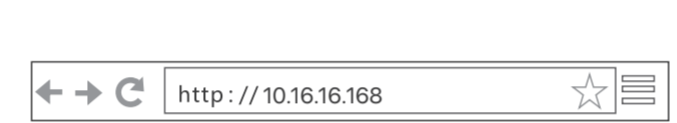
Step 1 Use an Ethernet cable to connect the computer to one of the ports 1-24 (1-10 for G5312F) of the switch.



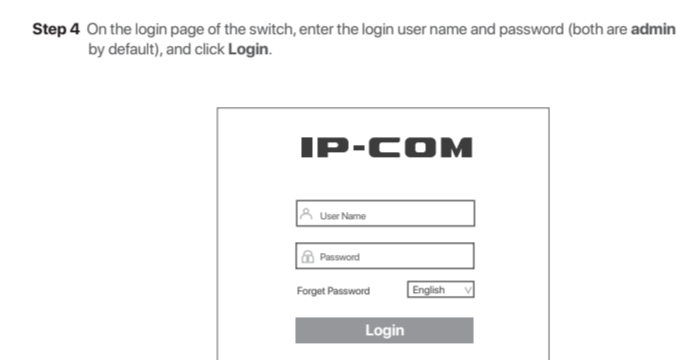
Step 2 Set the IP address of the computer to the same network segment of the switch's IP address. The default IP address of the switch is 10.16.16.168. You can set the IP address of the computer to 10.16.16.X (X ranges from 2 to 254 excluding 168, and is not occupied) and the subnet mask to 255.255.255.0.



Step 3 Start a web browser (such as Chrome) on the computer, and enter the default IP address of the switch (default: 10.16.16.168) 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**.



Tips
If you fail to access the above page, please refer to **question 1** in FAQ.

After successfully logging in to the web UI of the switch, you can configure the switch now.

FAQ

1.1 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. The **Power LED** indicator is solid on.
 - Check whether the computer is connected to the switch properly.
 - Check whether the IP address of the browser (or Local Area Connection) of the computer is set to 10.16.16.X (X ranges from 2 to 254 excluding 168, and is not 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 10.16.16.168 exists in the local network.
 - If the problem persists, reset the switch and try again.
- Reset method: When the **SYS** LED indicator is blinking, press and hold the **Reset** button for about 10 seconds, and then release it when all indicators are solid on. When the **SYS** LED indicator blinks again, the switch is restored to factory settings.

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

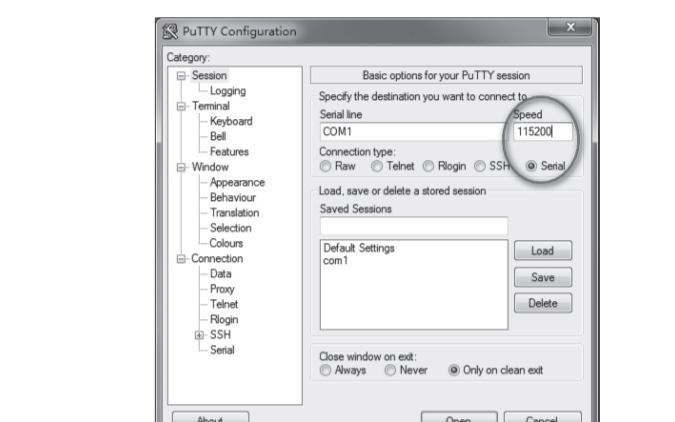
3. How to deal with power system malfunctions?
Check the status of the **Power LED** indicator to confirm if the power system malfunctions. If the **Power LED** indicator lights solid on, the power system works properly. If not, please check as follows:

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

4. How do I connect the switch through the Console port?

Please operate as follows:

- Step 1** Connect the computer and the Console port of the switch with the included console cable.
- Step 2** Run the serial interface software program (such as PuTTY) on the computer. Enter 115200 in the **Speed** box and select **Serial** as the **Connection type**. Then click **Open**.



Step 3 Press **Enter** twice and enter the user name and password of the switch (both are admin by default) on the page to enter the command-line interface of the switch.



Specifications English

Model	G5312F	G5328F
Port	10/100/1000 Mbps RJ45 port 10	24
1000 Mbps SFP port	2 Independent SFP ports	4 Independent SFP ports
Console port	1. Built-in: 115200	4. Built-in: 115200
Switching mode	Store-and-forward	Store-and-forward
Performance	MAC address table learning Auto aging, auto learning	MAC address table learning Auto aging, auto learning
Dimensions (L x W x H)	294 mm x 178.6 mm x 44 mm	440 mm x 178.6 mm x 44 mm
AC input	100~240V AC, 50/60Hz, 0.6A	100~240V AC, 50/60Hz, 0.7A
Lightning protection	RJ45 port Common mode: 6 kV	RJ45 port Common mode: 6 kV; Differential mode: 4 kV
Power supply	Common mode: 6 kV; Differential mode: 4 kV	Common mode: 6 kV; Differential mode: 4 kV
Operating environment	Temperature: 0°C ~ 40°C Humidity: 10%~90% RH, non-condensing	Temperature: 0°C ~ 45°C Humidity: 10%~90% RH, non-condensing
Storage environment	Temperature: -40°C ~ 70°C Humidity: 5%~90% RH, non-condensing	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)	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 1000Base-TX, MMF or SFP 1000Base-LX, MMF or SFP	Ethernet: Cat3 UTP/STP or better Fast Ethernet: Cat5 UTP/STP or better Gigabit Ethernet: Cat5e or Cat6 UTP/STP 1000Base-TX, MMF or SFP 1000Base-LX, MMF or SFP
Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3ae, IEEE 802.14, IEEE 802.3z, IEEE 802.3x, IEEE 802.1q, IEEE 802.3s	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3ae, IEEE 802.14, IEEE 802.3z, IEEE 802.3x, IEEE 802.1q, IEEE 802.3s

Характеристики Русский

Модель	G5312F	G5328F
Интерфейсы	Порт RJ45 10/100/1000 Мбит/с 10	24
Каналы порта	2 независимых SFP порта	4 независимых SFP порта
Консольный порт	1. Скорость передачи в baud: 115200	4. Скорость передачи в baud: 115200
Режимы переключения	Сопоставление и дальнейшая передача	Сопоставление и дальнейшая передача
Выполнение	Изучение MAC-адресов Автоматическое старение, автоматическое обучение	Изучение MAC-адресов Автоматическое старение, автоматическое обучение
Размеры (Д x Ш x В)	294 мм x 178,6 мм x 44 мм	440 мм x 178,6 мм x 44 мм
Ввод переменного тока	100~240V AC, 50/60Hz, 0,6A	100~240V AC, 50/60Hz, 0,7A
Молниезащита	Порт RJ45 Обычный режим: 6 kV	Порт RJ45 Обычный режим: 6 kV; Дифференциальный режим: 4 kV
Источники питания	Обычный режим: 6 kV; Дифференциальный режим: 4 kV	Обычный режим: 6 kV; Дифференциальный режим: 4 kV
Рабочая среда	Температура: 0°C ~ 40°C Влажность: 10~90% RH, не конденсирующая	Температура: 0°C ~ 45°C Влажность: 10~90% RH, не конденсирующая
Условия хранения	Температура: -40°C ~ 70°C Влажность: 5~90% RH, не конденсирующая	Температура: -40°C ~ 70°C Влажность: 5~90% RH, не конденсирующая
Скорость передачи информации	Ethernet: 10 Мбит (полудуплекс)/20 Мбит (полудуплекс) Fast Ethernet: 100 Мбит (полудуплекс)/200 Мбит (полудуплекс) Gigabit Ethernet: 2000 Мбит (полудуплекс)	Ethernet: 10 Мбит (полудуплекс)/20 Мбит (полудуплекс) Fast Ethernet: 100 Мбит (полудуплекс)/200 Мбит (полудуплекс) Gigabit Ethernet: 2000 Мбит (полудуплекс)
Средства передачи	Ethernet: Cat3 UTP/STP или лучше Fast Ethernet: Cat5 UTP/STP или лучше Gigabit Ethernet: Cat5e или Cat6 UTP/STP 1000Base-TX, MMF или SFP 1000Base-LX, MMF или SFP	Ethernet: Cat3 UTP/STP или лучше Fast Ethernet: Cat5 UTP/STP или лучше Gigabit Ethernet: Cat5e или Cat6 UTP/STP 1000Base-TX, MMF или SFP 1000Base-LX, MMF или SFP
Стандарты	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3ae, IEEE 802.14, IEEE 802.3z, IEEE 802.3x, IEEE 802.1q, IEEE 802.3s	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3ae, IEEE 802.14, IEEE 802.3z, IEEE 802.3x, IEEE 802.1q, IEEE 802.3s

Спецификации Български

Модел	G5312F	G5328F
Порт	10/100/1000 Mbps RJ45 порт 10	24
1000 Mbps SFP порт	2 независимых SFP порта	4 независимых SFP порта
Консольный порт	1. Скорость на baud: 115200	4. Скорость на baud: 115200
Режимы на переключаване	Съответствие и преработка	Съответствие и преработка
Технически показатели	Таблица с MAC адреси, обучение Автоматично навсяване, автоматично обучение	Таблица с MAC адреси Автоматично навсяване, автоматично обучение
Размери (Д x Ш x В)	294 mm x 178.6 mm x 44 mm	440 mm x 178.6 mm x 44 mm
AC вход	100~240V AC, 50/60Hz, 0.6A	100~240V AC, 50/60Hz, 0.7A
Мълниезащита	RJ45 порт Общ режим: 6 kV	RJ45 порт Общ режим: 6 kV; Диференциален режим: 4 kV
Зареждане	Общ режим: 6 kV; Диференциален режим: 4 kV	Общ режим: 6 kV; Диференциален режим: 4 kV
Работна среда	Температура: 0°C ~ 40°C Влажност: 10%~90% RH, некондензираща	Температура: 0°C ~ 45°C Влажност: 10%~90% RH, некондензираща
Среда за съхранение	Температура: -40°C ~ 70°C Влажност: 5%~90% RH, некондензираща	Температура: -40°C ~ 70°C Влажност: 5%~90% RH, некондензираща
Скорост на предаване на данни	Ethernet: 10 Мбит (полудуплекс)/20 Мбит (полудуплекс) Fast Ethernet: 100 Мбит (полудуплекс)/200 Мбит (полудуплекс) Gigabit Ethernet: 2000 Мбит (полудуплекс)	Ethernet: 10 Мбит (полудуплекс)/20 Мбит (полудуплекс) Fast Ethernet: 100 Мбит (полудуплекс)/200 Мбит (полудуплекс) Gigabit Ethernet: 2000 Мбит (полудуплекс)
Средна на предаване	Ethernet: Cat3 UTP/STP или по-добре Fast Ethernet: Cat5 UTP/STP или по-добре Gigabit Ethernet: Cat5e или Cat6 UTP/STP 1000Base-TX, MMF или SFP 1000Base-LX, MMF или SFP	Ethernet: Cat3 UTP/STP или по-добре Fast Ethernet: Cat5 UTP/STP или по-добре Gigabit Ethernet: Cat5e или Cat6 UTP/STP 1000Base-TX, MMF или SFP 1000Base-LX, MMF или SFP
Стандарты	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3ae, IEEE 802.14, IEEE 802.3z, IEEE 802.3x, IEEE 802.1q, IEEE 802.3s	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3ae, IEEE 802.14, IEEE 802.3z, IEEE 802.3x, IEEE 802.1q, IEEE 802.3s

Spezifikationen Deutsch

Model	G5312F	G5328F
Port	10/100/1000 Mbps RJ45-Port 10	24
1000 Mbps SFP-Port	2 unabhängige SFP-Ports	4 unabhängige SFP-Ports
Konsole-Anschluss	1. Baudrate: 115200	4. Baudrate: 115200
Moduswechsel	Speichern und weiterleiten	Speichern und weiterleiten
MAC-Adressentabelle lernen	Automatisches Lernen, automatisches Lernen	Automatisches Lernen, automatisches Lernen
Abmessungen (L x B x H)	294 mm x 178,6 mm x 44 mm	440 mm x 178,6 mm x 44 mm
AC-Eingang	100~240V AC, 50/60Hz, 0,6A	100~240V AC, 50/60Hz, 0,7A
Blitzschutz	RJ45-Port Normaler Modus: 6 kV	RJ45-Port Normaler Modus: 6 kV; Differenzialmodus: 4 kV
Stromversorgung	Normaler Modus: 6 kV	Normaler Modus: 6 kV; Differenzialmodus: 4 kV
Betriebsumgebung	Temperatur: 0°C ~ 40°C Luftfeuchtigkeit: 10%~90% RH, nicht kondensierend	Temperatur: 0°C ~ 45°C Luftfeuchtigkeit: 10%~90% RH, nicht kondensierend
Lagerumgebung	Temperatur: -40°C ~ 70°C Luftfeuchtigkeit: 5%~90% RH, nicht kondensierend	Temperatur: -40°C ~ 70°C Luftfeuchtigkeit: 5%~90% RH, nicht kondensierend
Datenübertragungsrate	Ethernet: 10 Mbit/s (Halbduplex)/20 Mbit/s (Voll duplex) Fast Ethernet: 100 Mbit/s (Halbduplex)/200 Mbit/s (Voll duplex) Gigabit Ethernet: 2000 Mbit/s (Voll duplex)	Ethernet: 10 Mbit/s (Halbduplex)/20 Mbit/s (Voll duplex) Fast Ethernet: 100 Mbit/s (Halbduplex)/200 Mbit/s (Voll duplex) Gigabit Ethernet: 2000 Mbit/s (Voll duplex)
Übertragungsmedium	Ethernet: Cat3 UTP/STP oder höher Fast Ethernet: Cat5 UTP/STP oder höher Gigabit Ethernet: Cat5e oder Cat6 UTP/STP 1000Base-TX, MMF oder SFP 1000Base-LX, MMF oder SFP	Ethernet: Cat3 UTP/STP oder höher Fast Ethernet: Cat5 UTP/STP oder höher Gigabit Ethernet: Cat5e oder Cat6 UTP/STP 1000Base-TX, MMF oder SFP 1000Base-LX, MMF oder SFP
Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3ae, IEEE 802.14, IEEE 802.3z, IEEE 802.3x, IEEE 802.1q, IEEE 802.3s	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3ae, IEEE 802.14, IEEE 802.3z, IEEE 802.3x, IEEE 802.1q, IEEE 802.3s

Specifiche Italiano

Modello	G5312F	G5328F
Porte	Porta RJ45 10/100/1000 Mbps 10	24
Porta SFP 1000 Mbps	2 porte SFP indipendenti	4 porte SFP indipendenti
Porta console	1. Velocità in baud: 115200	4. Velocità in baud: 115200
Modalità switching	Store-and-forward	Store-and-forward
Prestitazioni	Apprendimento degli indirizzi MAC Auto-invecchiamento, auto-apprendimento	Apprendimento degli indirizzi MAC Auto-invecchiamento, auto-apprendimento
Dimensioni (L x P x A)	294 mm x 178,6 mm x 44 mm	440 mm x 178,6 mm x 44 mm
Ingresso c.a.	100~240V AC, 50/60Hz, 0,6A	100~240V AC, 50/60Hz, 0,7A
Protezione contro i fulmini	Porta RJ45 Modalità comune: 6 kV	Porta RJ45 Modalità comune: 6 kV; Modalità differenziale: 4 kV
Alimentazione	Modalità comune: 6 kV	Modalità comune: 6 kV; Modalità differenziale: 4 kV
Ambiente operativo	Temperatura: 0°C ~ 40°C Umidità: 10%~90% UR, senza condensazione	Temperatura: 0°C ~ 45°C Umidità: 10%~90% UR, senza condensazione
Ambiente di immagazzinaggio	Temperatura: -40°C ~ 70°C Umidità: 5%~90% UR, senza condensazione	Temperatura: -40°C ~ 70°C Umidità: 5%~90% UR, senza condensazione
Velocità di trasmissione	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)	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)
Mezzi di trasmissione	Ethernet: Cat3 UTP/STP o superiore Fast Ethernet: Cat5 UTP/STP o superiore Gigabit Ethernet: Cat5e o Cat6 UTP/STP 1000Base-TX, MMF o SFP 1000Base-LX, MMF o SFP	Ethernet: Cat3 UTP/STP o superiore Fast Ethernet: Cat5 UTP/STP o superiore Gigabit Ethernet: Cat5e o Cat6 UTP/STP 1000Base-TX, MMF o SFP 1000Base-LX, MMF o SFP
Standard	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3ae, IEEE 802.14, IEEE 802.3z, IEEE 802.3x, IEEE 802.1q, IEEE 802.3s	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3ae, IEEE 802.14, IEEE 802.3z, IEEE 802.3x, IEEE 802.1q, IEEE 802.3s

Especificações Português

Modelo	G5312F	G5328F
Porta	Porta RJ45 10/100/1000 Mbps 10	24
Porta SFP 1000 Mbps	2 portas SFP independentes	4 portas SFP independentes
Porta de console	1. Taxa de Baud: 115200	4. Taxa de Baud: 115200
Modo de comunicação	Queue e retransmissão	Queue e retransmissão
Desempenho	Aprendizagem de endereços MAC Envelhecimento automático, aprendizagem automática	Aprendizagem de endereços MAC Envelhecimento automático, aprendizagem automática
Dimensões (L x L x A)	294 mm x 178,6 mm x 44 mm	440 mm x 178,6 mm x 44 mm
Entrada AC	100~240V AC, 50/60Hz, 0,6A	100~240V AC, 50/60Hz, 0,7A
Proteção contra raios	Porta RJ45 Modo comum: 6 kV	Porta