

## Quick Installation Guide

L3 Managed Switch  
G5324-16F

### Package contents

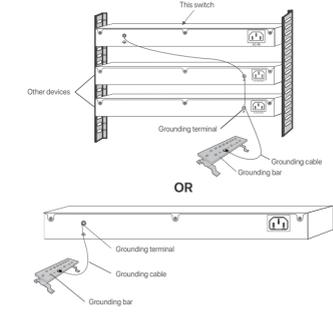
- Switch x1
- Power cord x1
- Console cable x1
- L-shaped bracket x2
- Footpad x4
- Screw (KM3\*6 mm) x8
- Quick installation guide x1

This guide instructs how to install, connect and log in to the device. For more details, please visit [www.ip-com.com.cn](http://www.ip-com.com.cn) to download the user guide of the device.



### 1.4 Grounding

- 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 the binding post on the grounding bar or to another grounded device.



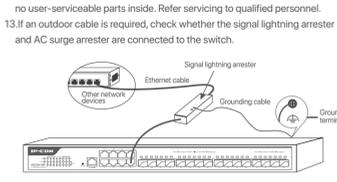
Note: Connect the grounding cable of the switch to the grounding system in an equipment room. Do NOT connect it to a fire hose or a lightning rod of the building.

## 1 Install the device

### 1.1 Safety precautions

- Before performing an operation, read the operation instructions and precautions to be taken, and other documents do not cover all the safety precautions that must be followed. They are only supplementary information, the installation and maintenance personnel need to understand the basic safety precautions to be taken.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings, such as newspapers, table-cloth, curtains, etc.
- Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus that produce heat.
- Do not damage the ground conductor or operate the device in the absence of well installed ground conductor. Conduct the appropriate electrical inspection.
- Protect the power cord from being walk on or pinched particularly at the plugs, convenience receptacles and at the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Mains plug is used as the disconnect device, the disconnect device shall remain readily operable.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Warning: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing.

- Warning: To reduce the risk of electric shock, do not remove as there no user-serviceable parts inside. Refer servicing to qualified personnel.
- If an outdoor cable is required, check whether the signal lightning arrester and AC surge arrester are connected to the switch.



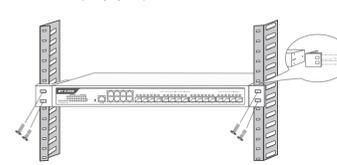
Note: There is a void sticker covering one of the screws on the housing of the switch. Do NOT remove the sticker without permission of the local agent. Otherwise you shall be responsible for any damage.

### 1.2 Preparation for installation

- You shall prepare the following tools and materials for device installation.
- Rack mounting: ESD bracket (or ESD gloves), screwdriver, 4 screws (to secure the switch to the rack)
  - Desktop mounting: ESD bracket (or ESD gloves)
  - Wall mounting: ESD bracket (or ESD gloves), marker, hammer drill, rubber hammer, screwdriver, 4 expansion bolts (M5\*40 mm), 4 screws (PA5\*25 mm, head diameter: 10 mm)

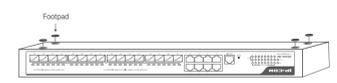
### 1.3 Installation

- Rack 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 two L-shaped brackets to both sides of the switch with the included screws.
  - Step 3 Choose a proper height and fix the L-shaped brackets to the rack with screws (self-prepared). Ensure that the switch is stable on the rack.



### Desktop mounting

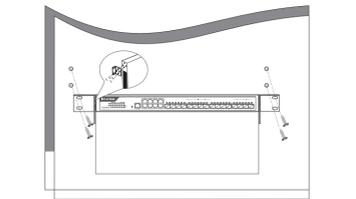
- Paste the four footpads to the four recesses on the bottom of the switch. Then turn the switch upside down, and place it horizontally on a big enough, clean, stable and flat desktop.



### Wall mounting

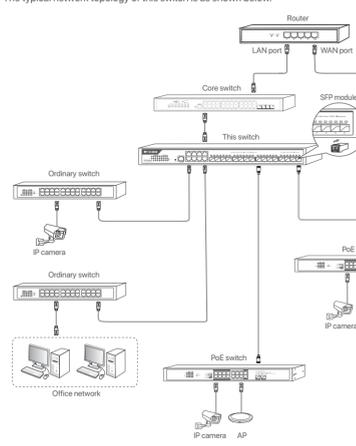
- Note: This switch can only be installed on non-flammable walls, such as a concrete wall.
- Do NOT install the switch with its ventilation openings facing downward, otherwise, there will be potential safety hazards.
- The switch is only suitable for mounting at heights > 2m.

- Step 1 Rotate the two L-shaped brackets by 90 degrees and fix them 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. Then mark the screw holes on the wall with a marker.
- Step 3 Drill holes in the marked positions, and then hammer the expansion bolts (self-prepared, M5\*40 mm) into the holes.
- Step 4 Insert the screws (self-prepared, PA5\*25 mm, head diameter: 10 mm) through the holes of the two L-shaped brackets, and secure the screws into the expansion bolts with a screwdriver. Ensure that the switch is installed firmly with its RJ45 ports facing upward.



## 2 Connect the device

The typical network topology of this switch is as shown below.



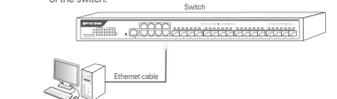
After connection, please check whether the switch is connected properly according to the following table.

LED indicator	Description
SYS	<b>Blinking:</b> The system works properly. <b>Solid on:</b> The system is not working properly. <b>Off:</b> The system is starting up or not working properly.
Power	<b>Solid on:</b> The switch is powered on properly. <b>Off:</b> The switch is not powered on, or not powered on properly.
Link/Act(1 - 8), SFP (9 - 20)	<b>Solid on:</b> The port is connected to a device, but no data is being transmitted over the port. <b>Blinking:</b> The port is connected to a device, and data is being transmitted over the port. <b>Off:</b> The port is not connected or is not connected properly. A green light indicates that the rate of the port is 1000 Mbps, while a yellow light indicates a rate of 10 Mbps or 100 Mbps.
SFP (21 - 24)	<b>Solid on:</b> The port is connected to a device, but no data is being transmitted over the port. <b>Blinking:</b> The port is connected to a device, and data is being transmitted over the port. <b>Off:</b> The port is not connected or is not connected properly. A green light indicates that the rate of the port is 1000 Mbps.

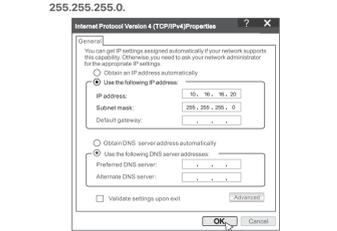
Tips: The switch supports auto MDI/MDIX. You can use either a straight through cable or a crossover cable to connect the switch to Ethernet devices.

## 3 Log in to web UI of the device

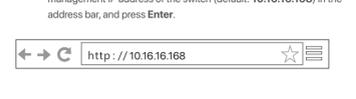
- Step 1 Use an Ethernet cable to connect the computer to one of the ports 1 - 8 of the switch.



- Step 2 Set the IP address of Ethernet (or Local Area Connection) 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** (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, enter the management IP address of the switch (default: **10.16.16.168**) in the address bar, and press **Enter**.



- Step 4 Enter the login user name and password (both are **admin** by default) on the login page of the switch, 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.

## 4 IP-COM IMS cloud management

This switch supports the IMS cloud management function. You can remotely manage the switch through the IP-COM IMS cloud platform.

Tips: Ensure that the switch can access the internet before configuring the IMS cloud management function.

- Step 1 Log in to the IP-COM IMS cloud platform, and obtain the unique cloud code.
  - Start a web browser on the computer that can access the internet, and visit <https://imsen-ip-com.com.cn>. Enter the login account and password, then click **Login** to enter the configuration page of the IMS cloud platform.



Tips: If you do not have an account, please sign up first.

- Click the account icon (⊗) on the upper right corner of the page, and select **Unique Cloud Code** from the drop-down list.
- Click **Copy** to copy the unique cloud code.



- Step 2 Enable the IMS Cloud Management function.
  - Log in to the web UI of the switch (refer to **3 Log in to web UI of the device**).
  - Choose **Device Settings > IMS Cloud**.
  - Enable the **IMS Cloud Management** function and paste the unique cloud code in the **Unique Cloud Code** box.
  - Enable the **Report** function, and click **Confirm**.



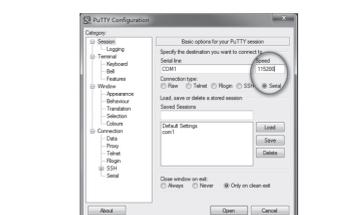
- Step 3 Log in to the IMS cloud platform and add the switch to a project.
  - Start a web browser and visit <https://imsen-ip-com.com.cn>. Enter the login account and password, then click **Login** to enter the configuration page of the IMS cloud platform.
  - Click account icon (⊗) on the upper right corner of the page, and select **Device-Joining** from the list and add it to a project.
  - Find the switch from the list and add it to a project.

Then you can manage and maintain the switch through the IP-COM IMS cloud platform.

## 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 lights solid on.
    - Check whether the computer is connected to the switch properly using an Ethernet cable.
    - Check whether the IP address of Ethernet (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 10.16.168 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 forget the login user name and password when logging in to the web UI of the switch. What should I do?
  - Try entering the default login user name and password (both are **admin**). If you still fail to log in to the web UI, reset the switch, then use the default user name and password to log in.
3. 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 a serial port connection software (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

Model	G5324-16F
Port	10/100/1000 Mbps RJ45 port: 8 1000 Mbps SFP port: 16 independent SFP ports Console port: 1
Performance	Switching mode: Store-and-forward MAC address table learning: Auto learning, auto aging MAC address table: 16K
Dimensions (L x W x H)	440 mm x 179.6 mm x 44 mm
Input voltage	100 - 240V AC, 50/60Hz, 1.5A
Lighting protection	RJ45 port (1 - 8): Common mode: 6 kV Power supply: 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 1000Base-SX, MMF 1000Base-LX, MMF or SMF
Network standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.3ab, IEEE 802.3x, IEEE 802.1q, IEEE 802.1s, IEEE 802.1x, IEEE 802.1w, IEEE 802.1y, IEEE 802.1z

## Характеристики

Модель	G5324-16F
Порт	Порт RJ45 10/100/1000 Мбит/с: 8 Порт SFP 1000 Мбит/с: 16 независимых SFP порта Консольный порт: 1
Режим переключения	Сохранение и дальнейшая передача
Исполнение	Учреждение MAC-адреса: Автоматическое старение, автоматическое обучение Таблица MAC-адресов: 16 К
Размеры (Д x Ш x В)	440 мм x 179,6 мм x 44 мм
Входное напряжение	100 - 240 В перемен. тока, 50/60 Гц, 1,5 А
Многоязычность	Порт RJ45 (1 - 8): Обычный режим: 6 kV Источник питания: Обычный режим: 6 kV, Дифференциальный режим: 4 kV
Рабочая среда	Температура: 0°C - 45°C Влажность: (10 - 90%) RH, неконденсирующая
Условия хранения	Температура: -40°C - 70°C Влажность: (5 - 90%) без конденсации
Скорость передачи информации	Ethernet: 10 Мбит/с (полудуплексный)/20 Мбит/с (полудуплексный) Fast Ethernet: 100 Мбит/с (полудуплексный)/200 Мбит/с (полудуплексный) Гигабит Ethernet: 2000 Мбит/с (полудуплексный)
Средства передачи	Ethernet: Кабель CAT3 UTP/STP или выше Fast Ethernet: Кабель CAT5 UTP/STP или выше Gigabit Ethernet: Кабель CAT5e или CAT6 UTP/STP 1000Base-SX, MMF 1000Base-LX, MMF или SMF
Стандарты сети	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.3ab, IEEE 802.3x, IEEE 802.1q, IEEE 802.1s, IEEE 802.1x, IEEE 802.1w, IEEE 802.1y, IEEE 802.1z

## Русский

## Спецификации

Модель	G5324-16F
Порт	10/100/1000 Mbps RJ45 порт: 8 1000 Mbps SFP порт: 16 независимых SFP порта Консольный порт: 1
Режим на переключение	Съхраняване и претрещане
Технически изисквания	Обучаване на MAC адреса: Автоматическо старение, автоматическо обучение Таблица на MAC адреса: 16 К
Размери (Д x Ш x В)	440 mm x 179,6 mm x 44 mm
Входно напрежение	100 - 240 V AC, 50/60 Hz, 1.5 A
Многоязычност	RJ45 порт (1 - 8): Общ режим: 6 kV Зареждане: Общ режим: 6 kV, Диференциален режим: 4 kV
Работна среда	Температура: 0°C - 45°C Влажност: (10% - 90%) RH, некондензираща
Среда за съхранение	Температура: -40°C - 70°C Влажност: (5% - 90%) RH, некондензираща
Скорост на предаване на данни	Ethernet: 10 Mbps (полуduplex)/20 Mbps (full duplex) Fast Ethernet: 100 Mbps (полуduplex)/200 Mbps (full duplex) Gigabit Ethernet: 2000 Mbps (full duplex)
Носители за предаване	Ethernet: CAT3 UTP/STP или по-добре Fast Ethernet: CAT5 UTP/STP или по-добре Gigabit Ethernet: CAT5e или CAT6 UTP/STP 1000Base-SX, MMF 1000Base-LX, MMF или SMF
Мрежови стандарти	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.3ab, IEEE 802.3x, IEEE 802.1q, IEEE 802.1s, IEEE 802.1x, IEEE 802.1w, IEEE 802.1y, IEEE 802.1z

## Български

## Spezifikationen

Modell	G5324-16F
Port	10/100/1000 Mbit/s RJ45-Port: 8 1000 Mbit/s SFP-Port: 16 unabhängige SFP-Ports Konsole-Anschluss: 1
Modus wechseln	Speichern und weiterleiten
MAC-Adressentabelle lernen	Automatisches Altern, automatisches Lernen
MAC-Adressentabelle	16 K
Abmessungen (L x B x H)	440 mm x 179,6 mm x 44 mm
Nennspannung	100 - 240 V AC, 50/60 Hz, 1,5 A
Überspannungsschutz	Normale Modus: 6 kV Stromversorgung: Normale Modus: 6 kV, Differenzialmodus: 4 kV
Betriebsumgebung	Temperatur: 0°C - 45°C Luftfeuchtigkeit: (10% - 90%) RH, nicht kondensierend
Lagerumgebung	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)
Übertragungsmedien	Ethernet: Cabo UTP/STP-Kabel oder höher Fast Ethernet: CAT5 UTP/STP-Kabel oder höher Gigabit Ethernet: CAT5e oder CAT6 UTP/STP-Kabel 1000Base-SX, MMF 1000Base-LX, MMF oder SMF
Netzwerkstandards	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.3ab, IEEE 802.3x, IEEE 802.1q, IEEE 802.1s, IEEE 802.1x, IEEE 802.1w, IEEE 802.1y, IEEE 802.1z

## Deutsch

## Specifiche

Modello	G5324-16F
Porte	Porta RJ45 10/100/1000 Mbps: 8 Porta SFP 1000 Mbps: 16 porte SFP indipendenti Porta console: 1
Modalità switching	Store-and-forward
Apprendimento degli indirizzi MAC	Auto invecchiamento, auto apprendimento
Tabella degli indirizzi MAC	16 K
Dimensioni (L x P x A)	440 mm x 179,6 mm x 44 mm
Tensione di ingresso	100 - 240 V CA, 50/60Hz, 1,5A
Protezione contro i fulmini	Porta RJ45 (1 - 8): Modalità comune: 6 kV Alimentazione: Modalità comune: 6 kV, Modalità differenziale: 4 kV
Ambiente operativo	Temperatura: 0°C - 45°C Umidità: (10% - 90%) UR, senza condensa
Ambiente di immagazzinaggio	Temperatura: -40°C - 70°C Umidità: (5% - 90%) UR, senza condensa
Velocità di trasmissione dati	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: Cabo CAT3 UTP/STP o superiore Fast Ethernet: Cabo CAT5 UTP/STP o superiore Gigabit Ethernet: Cabo CAT5e o CAT6 UTP/STP 1000Base-SX, MMF 1000Base-LX, MMF o SMF
Standard di rete	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.3ab, IEEE 802.3x, IEEE 802.1q, IEEE 802.1s, IEEE 802.1x, IEEE 802.1w, IEEE 802.1y, IEEE 802.1z

## Italiano

## Especificações

Modelo	G5324-16F
Porta	Porta RJ45 10/100/1000 Mbps: 8 Porta SFP 1000 Mbps: 16 portas SFP independentes Porta da consola: 1
Modo de comutação	Guardar e reencaminhar
Desempenho	Envelhecimento automático, aprendizagem automática
Tabela de endereços MAC	16 K
Dimensões (C x L x A)	440 mm x 179,6 mm x 44 mm
Tensão de entrada	100 - 240 V CA, 50/60Hz, 1,5 A
Proteção contra raios	Porta RJ45 (1 - 8): Modo comum: 6 kV Fonte de energia: Modo comum: 6 kV, Modo diferencial: 4 kV
Ambiente operacional	Temperatura: 0°C - 45°C Humidade: (10% - 90%) de HR, sem condensação
Ambiente de armazenamento	Temperatura: -40°C - 70°C Humidade: (5% - 90%) de HR, sem condensação
Taxa de transmissão de dados	Ethernet: 10 Mbps (half duplex)/20 Mbps (full duplex) Ethernet rápido: 100 Mbps (half duplex)/200 Mbps (full duplex) Gigabit Ethernet: 2000 Mbps (full duplex)
Meios de transmissão	Ethernet: Cabo CAT3 UTP/STP ou superior Fast Ethernet: Cabo CAT5 UTP/STP ou superior Gigabit Ethernet: Cabo CAT5e ou CAT6 UTP/STP 1000Base-SX, MMF 1000Base-LX, MMF ou SMF
Padrões de rede	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.3ab, IEEE 802.3x, IEEE 802.1q, IEEE 802.1s, IEEE 802.1x, IEEE 802.1w, IEEE 802.1y, IEEE 802.1z

## Português

## Especificaciones

Modelo	G5324-16F
Puerto	Puerto RJ45 de 10/100/1000 Mbps: 8 Puerto SFP de 1000 Mbps: 16 puertos SFP independientes Puerto de consola: 1
Modo de comutación	Almacenar y retransmitir
Aprendizaje de direcciones MAC	Envejecimiento automático, aprendizaje automático
Tabla de direcciones MAC	16 K
Dimensiones (L x An x Al)	440 mm x 179,6 mm x 44 mm
Voltaje de entrada	100 - 240 V CA, 50/60 Hz, 1,5 A
Protección contra rayos	Puerto RJ45 (1 - 8): Modo común: 6 kV Fuente de alimentación: Modo común: 6 kV, Modo diferencial: 4 kV
Entorno de funcionamiento	Temperatura: 0°C - 45°C Humedad: 10% - 90% HR, sin condensación
Entorno de almacenamiento	Temperatura: -40°C - 70°C Humedad: 5% - 90% HR, sin condensación
Velocidad de transmisión de datos	Ethernet: 10 Mbps (duplex medio)/20 Mbps (duplex completo) Fast Ethernet: 100 Mbps (duplex medio)/200 Mbps (duplex completo) Gigabit Ethernet: 2000 Mbps (duplex completo)
Medios de transmisión	Ethernet: Cable CAT3 UTP/STP o superior Fast Ethernet: Cable CAT5 UTP/STP o superior Gigabit Ethernet: Cable CAT5e o CAT6 UTP/STP 1000Base-SX, MMF 1000Base-LX, MMF o SMF
Estándares de red	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.3ab, IEEE 802.3x, IEEE 802.1q, IEEE 802.1s, IEEE 802.1x, IEEE 802.1w, IEEE 802.1y, IEEE 802.1z

## Español