



Layer 3 Switch

Quick Start Guide

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Applicable Models

This manual is applicable to DS-3E3700-SI series layer 3 switches.

About Defaults

- Default IP address: 192.168.1.64 (service port) or 192.168.2.64 (MGMT port)
- Default user name (activation is required): admin
- Default baud rate: 9600

Symbol Conventions

The symbols that may be found in this document are defined as follows.

Symbol	Description
 Note	Provides additional information to emphasize or supplement important points of the main text.
 Caution	Indicates a potentially hazardous situation, which if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
 Danger	Indicates a hazard with a high level of risk, which if not avoided, will result in death or serious injury.

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Chapter 1 Introduction

1.1 Product Introduction

The DS-3E3700-SI series layer 3 switches (hereinafter referred to as "the devices") are designed for demanding network environments that require high port density and robust security. The devices support IPv4/IPv6 dual-stack management and forwarding, along with static routing protocols, dynamic routing protocols such as RIP, OSPF, and BGP, and multicast protocols such as PIM and IGMP, in addition to comprehensive management and security features.

Supporting configuration via command-line interface (CLI) and offering multiple management options—including web interface, Hik-Partner Pro app, and iVMS-4200 client—the devices provide advanced features such as network topology management, link aggregation, VLAN configuration, MAC address management, STP loop prevention, and ACL/QoS management.

The DS-3E3700-SI series includes a variety of port options, such as 10/100/1000BASE-T auto-negotiating Ethernet ports, along with 100/1000BASE-X SFP ports or 1G/10GBASE-X SFP+ ports. Designed primarily for access and aggregation layers in enterprise and campus networks, the devices support high-density Gigabit access and aggregation with fixed 1G/10G uplink ports.

1.2 Packing List

Please check if the package is damaged first. If the package is intact, unpack it and check whether the accessories provided with the product are available by referring to the packing list. Then, you can continue to install the device.

**Note**

The packing list may vary depending on the device model or software version. Please refer to the actual device for specific details.

Table 1-1 Packing List

Accessory	Quantity
Switch	× 1
AC Power Cable	× 1
Grounding Cable	× 1
Console Cable	× 1
L-Shaped Bracket Kit	× 1
 Note An L-shaped bracket kit contains two L-shaped brackets and eight M4 screws.	

Rubber Foot	× 4
Cable Retention Clip	× 1
Quick Start Guide	× 1
Regulatory Compliance and Safety Information	× 1

1.3 Appearance

Device appearance may differ between models. The front/rear panel illustrations are provided for reference only. Please refer to the actual product for accurate details.

1.3.1 28-Port Switch

28-port switches include the DS-3E3728-SI series.

Front Panel

The DS-3E3728-SI series features twenty-four 10/100/1000 Mbps RJ45 ports and four SFP+ fiber optical ports.

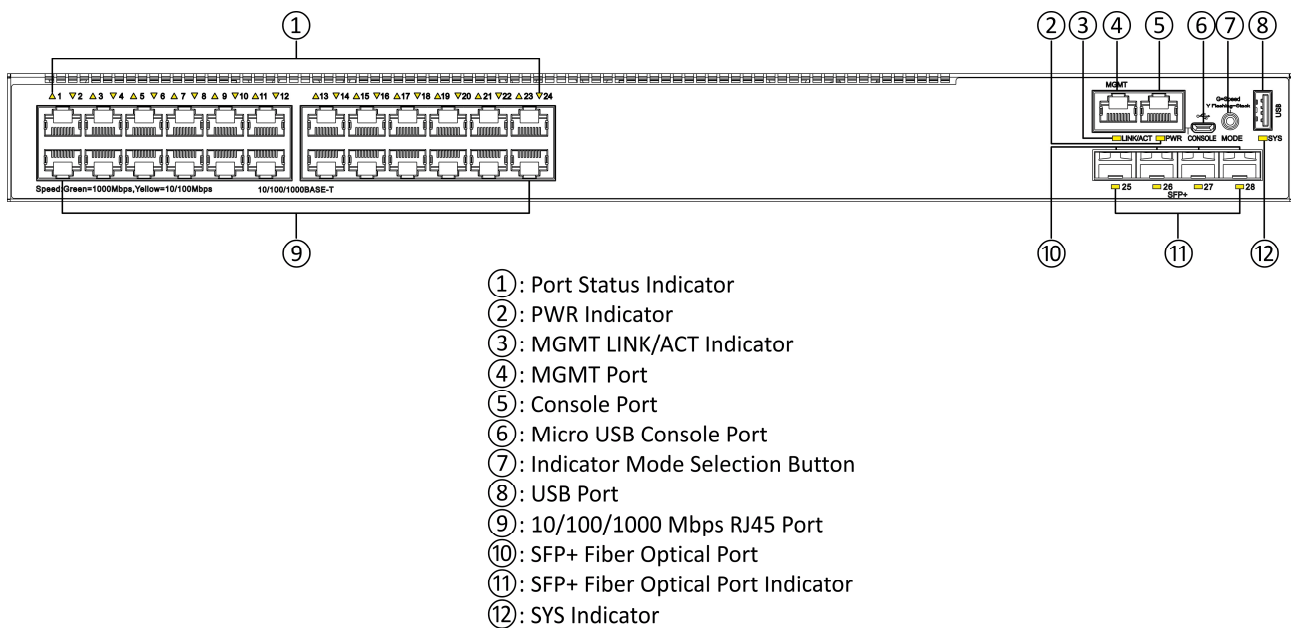


Figure 1-1 DS-3E3728-SI Series

Note

The USB port supports functions such as initial device configuration, file transfer, and firmware upgrades when used with a USB flash drive.

Rear Panel

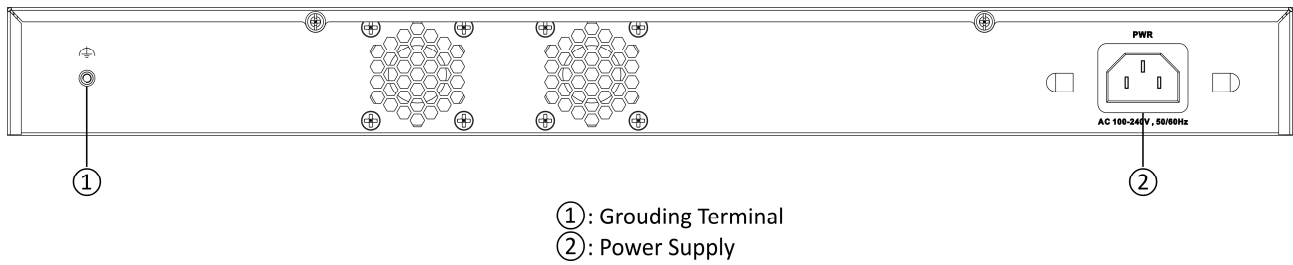


Figure 1-2 DS-3E3728-SI Series

1.3.2 52-Port Switch

52-port switches include the DS-3E3752-SI series. The DS-3E3752-SI series can be further classified into DS-3E3752-SI-48T4X and DS-3E3752-SI-48F4X series, which differ in the number of RJ45 ports and SFP+ fiber optical ports.

Front Panel

The DS-3E3752-SI-48T4X series features forty-eight 10/100/1000 Mbps RJ45 ports and four SFP+ fiber optical ports.

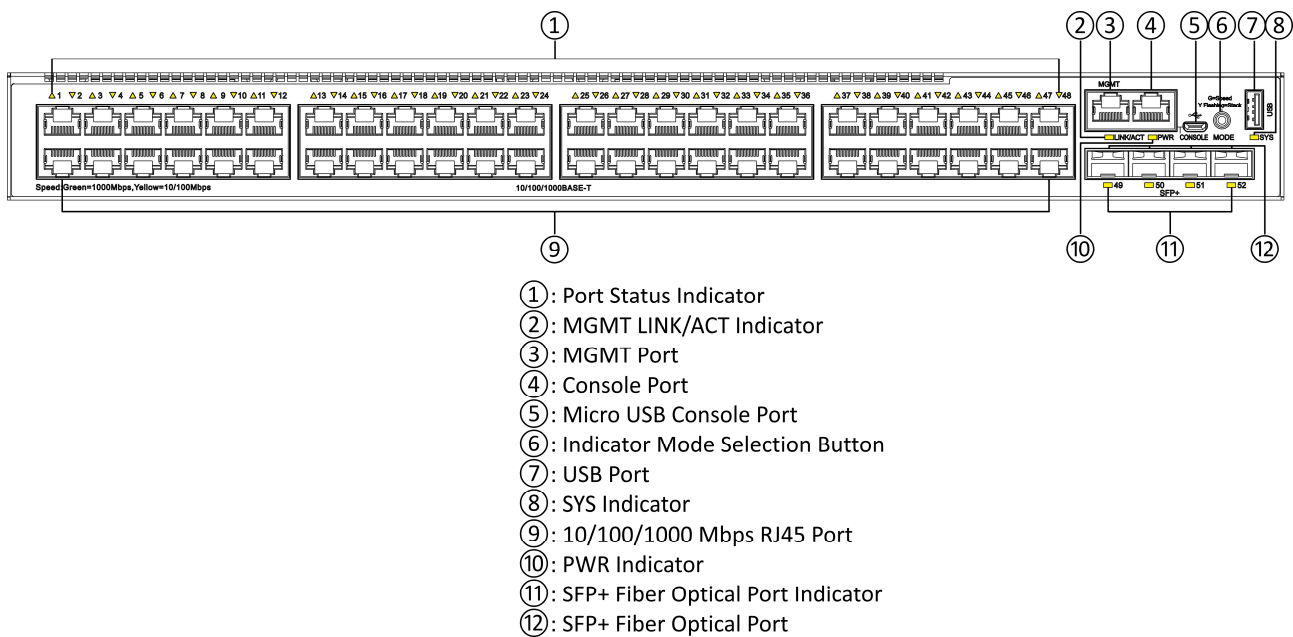


Figure 1-3 DS-3E3752-SI-48T4X Series

The DS-3E3752-SI-48F4X series features forty-eight SFP fiber optical ports and four SFP+ fiber optical ports.

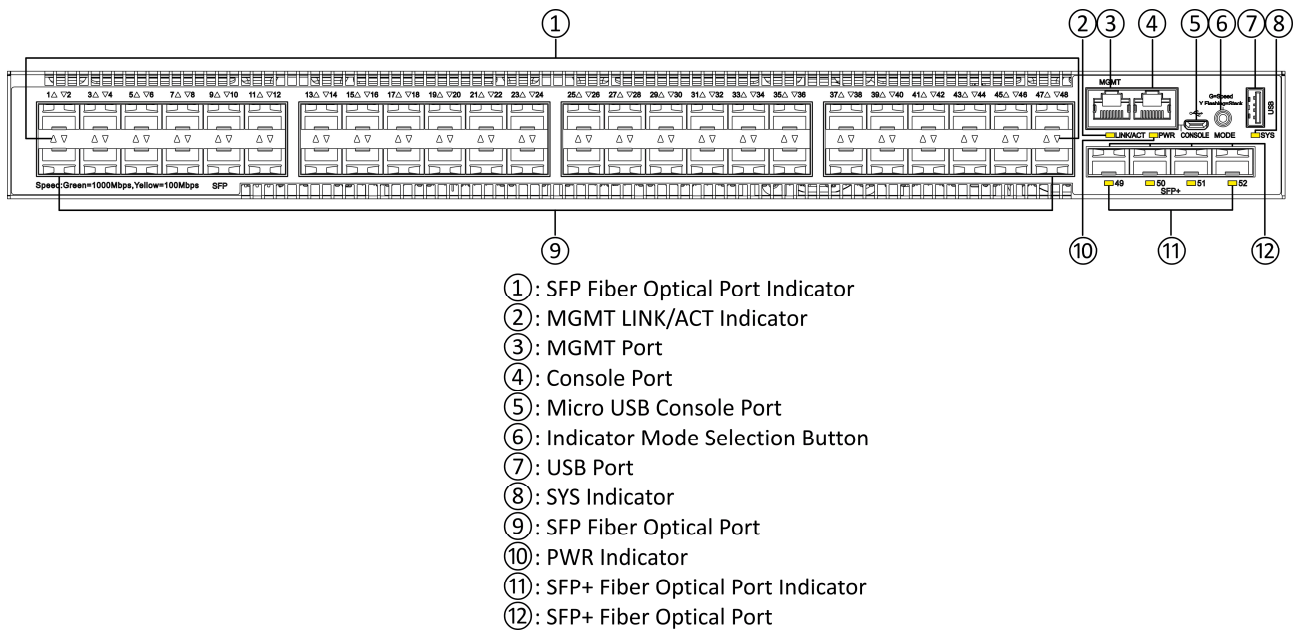


Figure 1-4 DS-3E3752-SI-48F4X Series

Note

The USB port supports functions such as initial device configuration, file transfer, and firmware upgrades when used with a USB flash drive.

Rear Panel

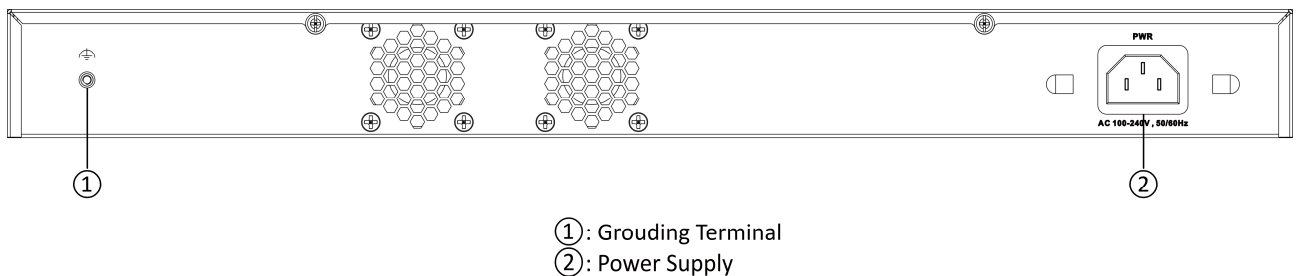


Figure 1-5 DS-3E3752-SI-48T4X Series

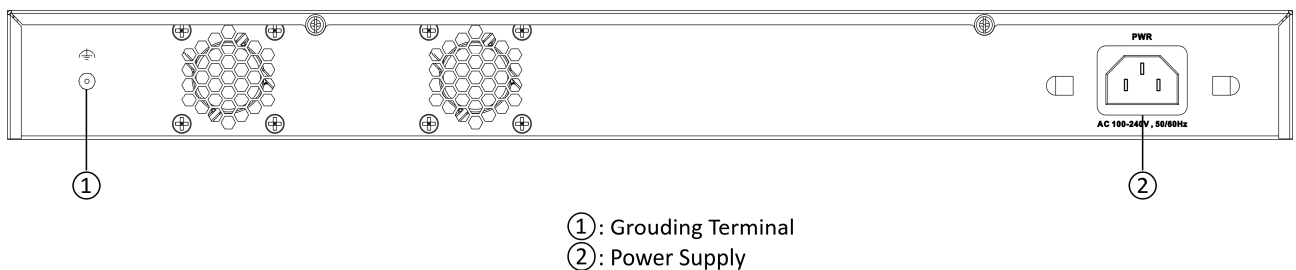


Figure 1-6 DS-3E3752-SI-48F4X Series

1.4 Ports, Indicators, and Buttons

1.4.1 Indicators

Check the switch status via indicators.

Table 1-2 Indicator Description

Indicator	Status	Description
PWR Indicator	Solid Green	The switch is powered on normally and the power supply is normal.
	Unlit	No power supply is connected or the power supply is abnormal.
SYS Indicator	Solid Green	The device started normally.
	Flashing Green	The device system is undergoing a power-on self-test.
	Solid Red	The device is powered on but the self-test has not started, the power-on self-test has failed, or the device is abnormal.
	Unlit	The device is powered off.
MGMT LINK/ACT Indicator	Solid Green	The port link is up.
	Flashing Green	The port is transmitting data.
	Unlit	The port link is down or abnormal.
Port Mode Indicator	Solid Green	Indicates the Link/Active status of the ports.
Port Status Indicator	Solid Green	The port link is up at 1000 Mbps.
	Flashing Green	The port is transmitting data at 1000 Mbps.
	Solid Yellow	The port link is up at 10/100 Mbps.
	Flashing Yellow	The port is transmitting data at 10/100 Mbps.
	Unlit	The port link is down or abnormal.
SFP Fiber Optical Port Indicator	Solid Green	The SFP optical module is installed and the port link is up at 1 Gbps.
	Flashing Green	The port is transmitting data at 1 Gbps.
	Solid Yellow	The SFP optical module is installed and the port link is up at 100 Mbps.

	Flashing Yellow	The port is transmitting data at 100 Mbps.
	Unlit	The port link is down or abnormal.
SFP+ Fiber Optical Port Indicator	Solid Green	The SFP+ optical module is installed and the port link is up at 10 Gbps.
	Flashing Green	The port is transmitting data at 10 Gbps.
	Solid Yellow	The SFP+ optical module is installed and the port link is up at 1 Gbps.
	Flashing Yellow	The port is transmitting data at 1 Gbps.
	Unlit	The port link is down or abnormal.

1.4.2 Indicator Mode Selection Button

Press this button to cycle through the functions of the port mode indicator. The port mode indicator determines which parameter the port status indicator displays for each port.



Note

The port mode indicator is solid green, indicating that the port status indicator displays the Link/Active status of the ports.

1.4.3 Grounding Terminal

Used for connection to the grounding cable to protect the switch from lightning. For details, please refer to **3.1 Connect Grounding Cable**.

1.4.4 AC Power Supply

Use the attached AC power cable to connect the switch to a power socket.

Chapter 2 Installation

Please select an appropriate installation method according to the actual needs.

Note

The following figures are for illustration only. The actual device prevails.

Before You Start

- Please wear an anti-static wristband or gloves and prepare a screwdriver before installation.
- Make sure the workbench or rack is stable and firm.
- Keep the device in a well-ventilated area and leave at least 10 cm space for heat dissipation around it.
- The vertical distance between devices should be no less than 1.5 cm when you install them in a rack.

2.1 Attach Rubber Feet

The device can be attached with rubber feet to prevent slipping.

Step 1 Take out the rubber feet included in the accessories.

Step 2 Peel off the release liners from the rubber feet.

Step 3 Align the rubber feet with the stamped markings on the device bottom.

Step 4 Press firmly to secure the rubber feet in place.

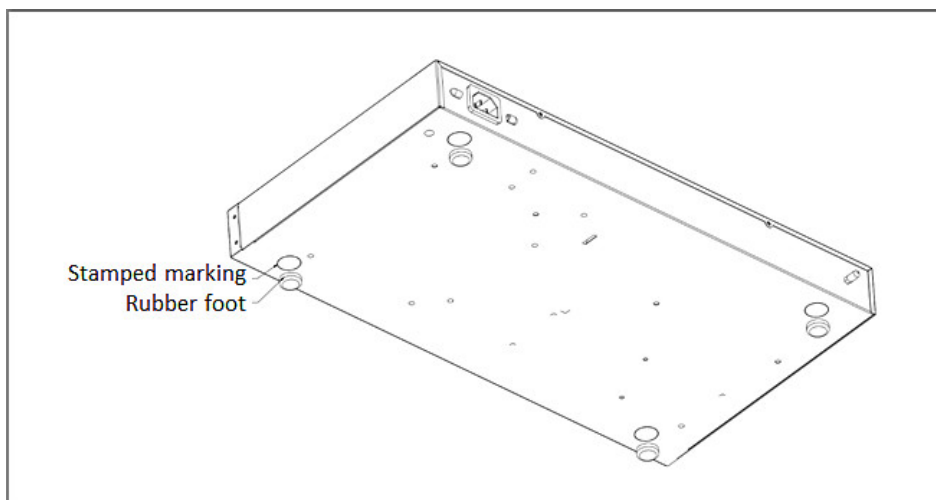


Figure 2-1 Attach Rubber Feet

2.2 Install Device on Rack

Install the device in a 19-inch standard cabinet.

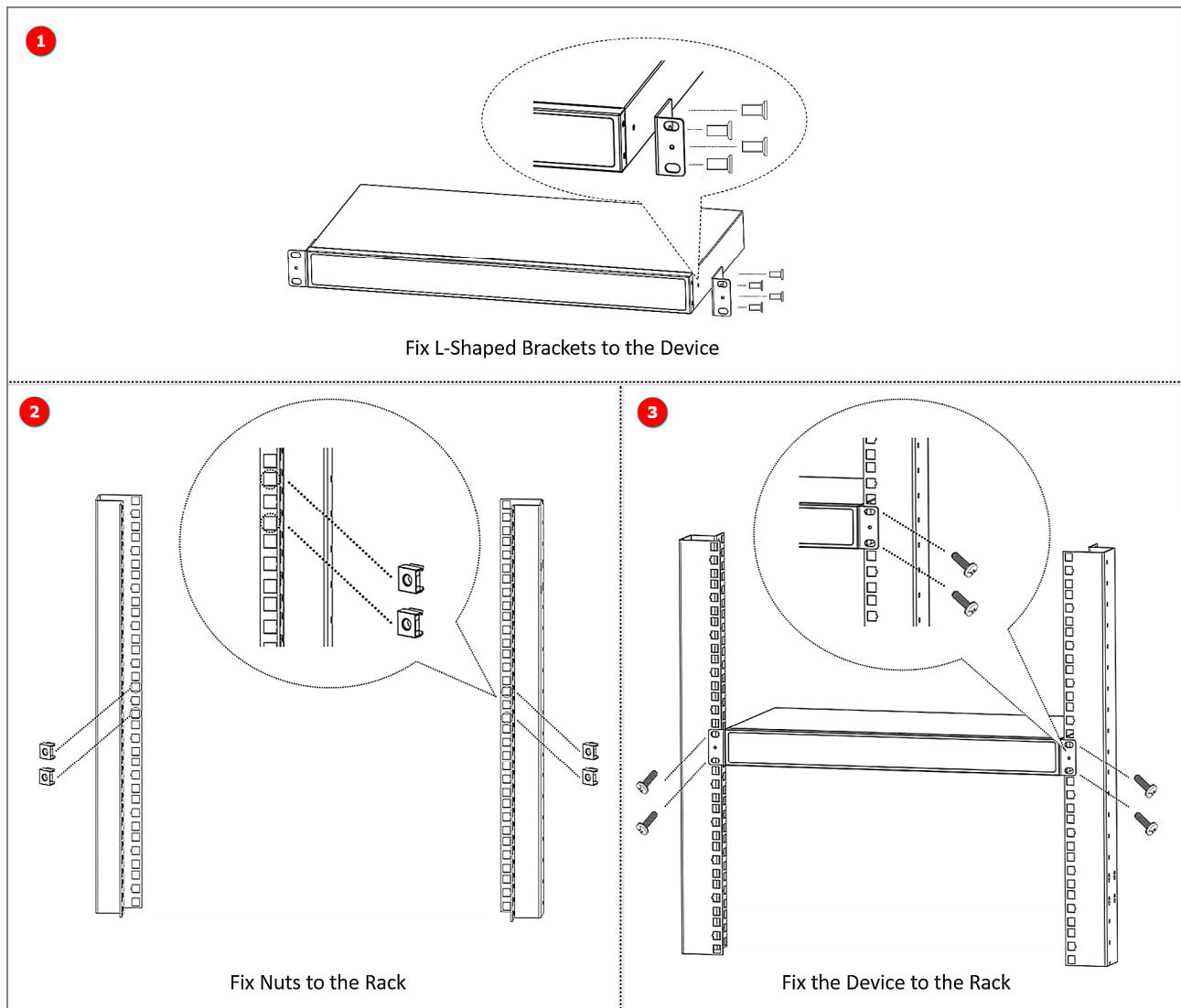


Figure 2-2 Install Device on Rack

Step 1 Check the grounding and stability of the rack.

Step 2 Use M4 screws provided in the package to fix the two L-shaped brackets to both sides of the device.

Step 3 Fix two self-prepared M5 or M6 nuts to the rear side of the rack on both sides respectively.

Step 4 Place the switch against the rack so that the holes on the L-shaped brackets are aligned with the holes where the nuts have been fixed.

Step 5 Fix the brackets to the front side of the rack with two self-prepared M5 or M6 screws on both sides respectively to stably install your device.

2.3 Fix Cable Retention Clip

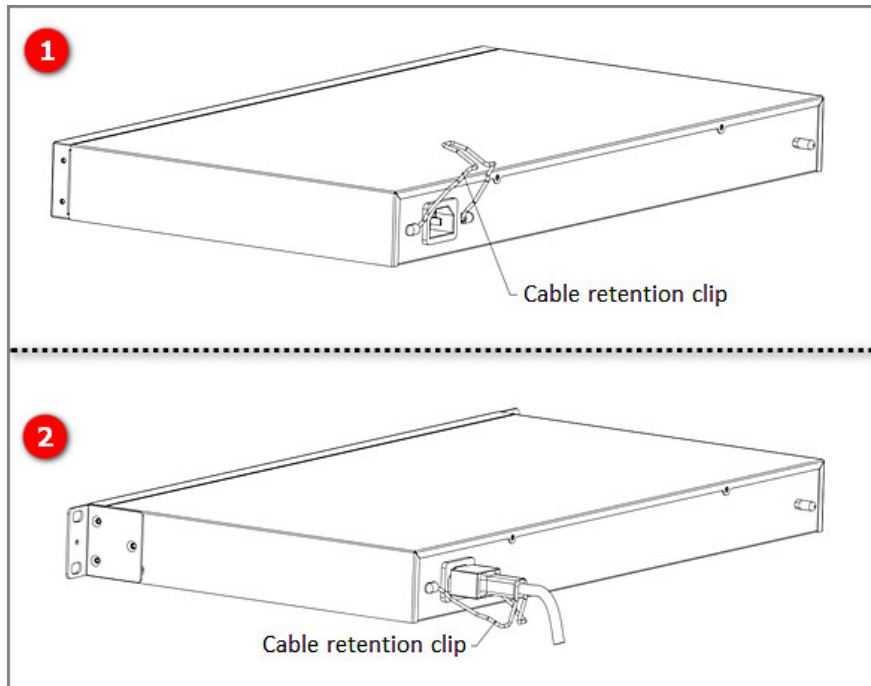


Figure 2-3 Fix Cable Retention Clip

Step 1 Take out the cable retention clip included in the accessories.

Step 2 Insert both ends of the cable retention clip into the corresponding holes on both sides of the power supply port.

Step 3 After connecting the power cable, press the clip downward until it securely locks the cable in place.

Chapter 3 Wiring

Note

The following figures are for illustration only.

3.1 Connect Grounding Cable

Grounding is used to quickly release overvoltage and overcurrent induced by lightning on the device, and to protect personal safety. Select an appropriate grounding method according to the installation conditions.

3.1.1 With Grounding Bar

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 of the device and tighten the screw.

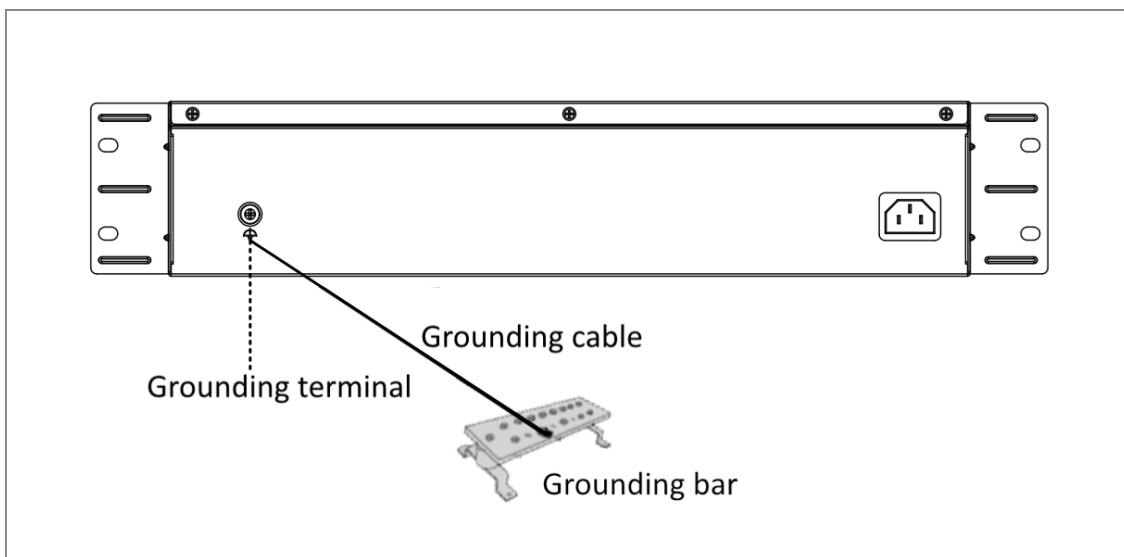


Figure 3-1 Grounding with Grounding Bar

3.1.2 Without Grounding Bar

Step 1 Bury an angle steel or steel pipe (≥ 0.5 m) into the earth.

Step 2 Weld one end of the grounding cable to the angle steel or steel pipe and embalm the welding point via electroplating or coating.

Step 3 Connect the other end of the grounding cable to the grounding terminal.

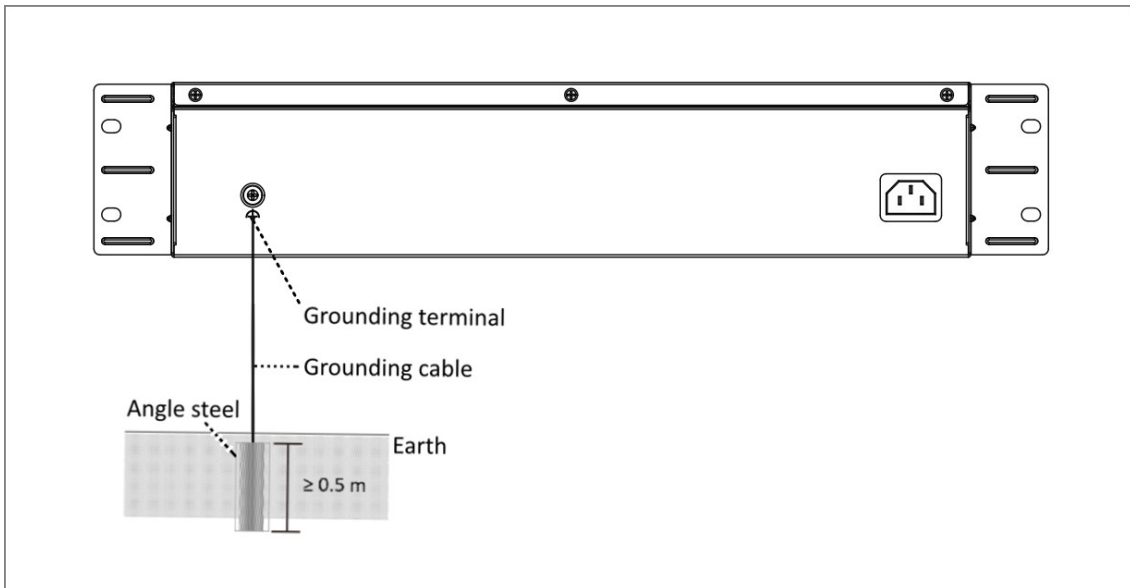


Figure 3-2 Grounding with Angle Steel

3.2 Connect RJ45 Port

Use a network cable to connect the device to the RJ45 port of a peer device such as switch, network camera (IPC), access point (AP), etc.

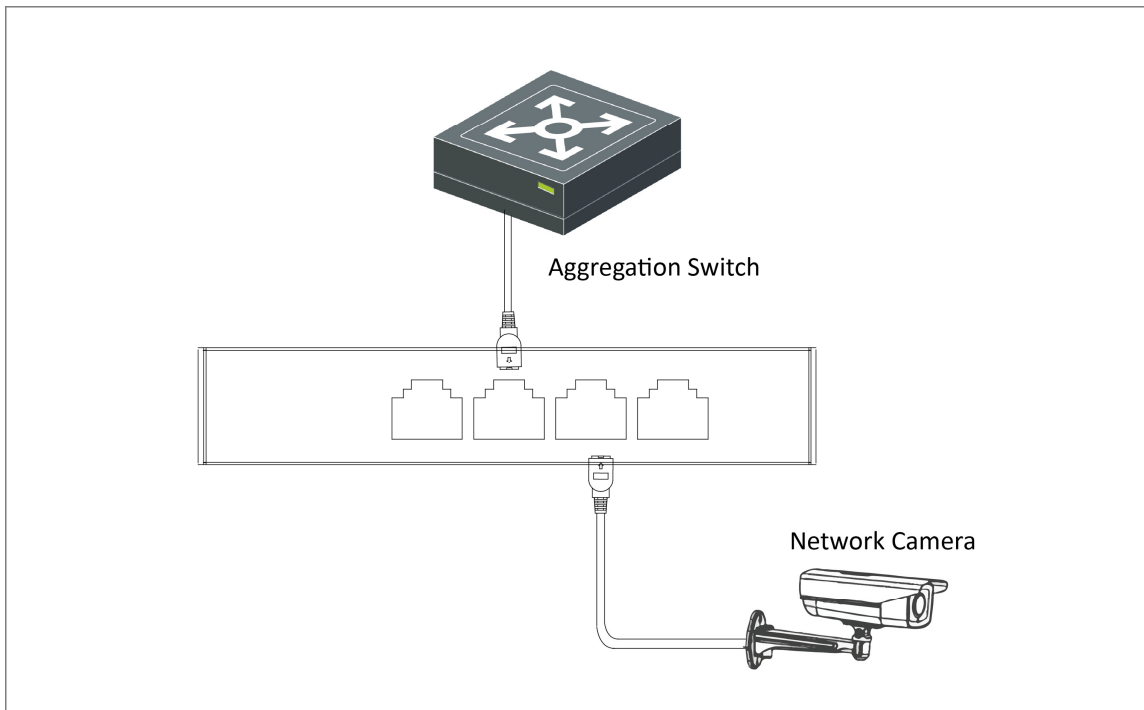


Figure 3-3 RJ45 Port Connection

**Note**

When the device is connected to a network camera (IPC), a separate power supply is required for the IPC.

3.3 Connect Fiber Optical Port

If the device has a fiber optical port, connect the device to a peer device through an optical fiber connecting optical modules plugged into fiber optical ports respectively.

**Caution**

- Optical modules need to be paired for use.
 - Do not bend an optical fiber (curvature radius ≥ 10 cm) overly.
 - Do not look directly at an optical fiber connector because the laser generated is harmful to eyes.
-

Step 1 Connect the two paired SFP or SFP+ optical modules with an optical fiber.

Step 2 Hold the SFP or SFP+ optical module from one side and smoothly insert it into the corresponding port slot until a "click" sound is heard, indicating that the optical module is securely seated.

Step 3 After powering on the device, check the status of the port status indicator.

- If the indicator is lit, the link is connected.
- If the indicator is unlit, the link is disconnected. Check the line, and make sure the peer device has been started.

Chapter 4 Powering On

Please use the AC power cable included in the package to power on the device.

Before powering on your switch, make sure that:

- The operating power supply is compliant with rated input standard.
 - Port cables and grounding cables are correctly connected.
 - If there is outdoor cabling, connect a lightning rod and a lightning arrester to the cable.
-



Caution

Power cables and network cables cannot be wired together, otherwise the PD or switch ports will be burnt.

Chapter 5 Remote Management

To manage the device, first connect to one of its available management ports. The switch supports multiple options, including the Console port, MGMT port, and Ethernet ports. Alternatively, you can use the Hik-Partner Pro app to set up your network for mobile device management. Select an appropriate management method based on your actual needs.

**Note**

The following figures are for illustration only.

5.1 Login via Console Port

Log in to the switch via the console port. This method is typically used for initial login, when remote access is unavailable, or if the device fails to start. Connect the switch to an external terminal (such as a computer) using the provided console cable.

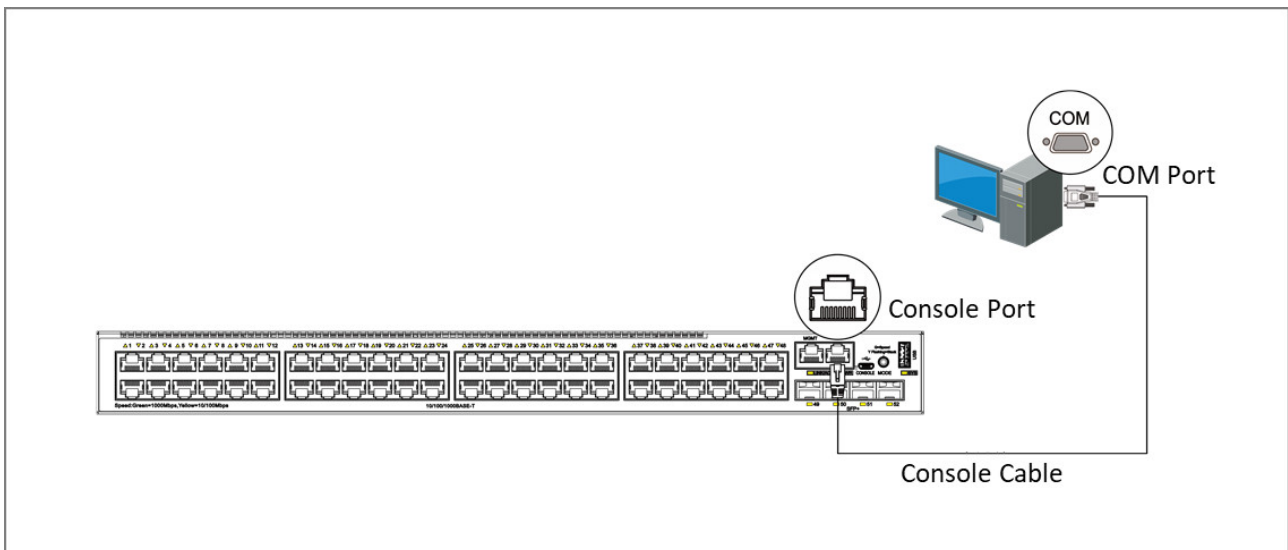


Figure 5-1 Log In to Switch via Console Port

- Step 1 Insert the RJ45 connector of the console cable into the Console port on the switch.
- Step 2 Connect the other end of the console cable to the serial (COM) port of your terminal device (e.g., a computer).
- Step 3 Open a terminal emulation program on the terminal device to access the switch's console management interface.

Note

- When logging in to the device through the console port for the first time, you must set a user password to activate the device.
- The default baud rate is 9600, but it can be configured to 115200, allowing flexible adjustment based on user requirements.
- For console port commands and configurations, please refer to the device's command reference and configuration guide manuals.
- You can also log in to the device via a Micro USB console port. Except that you need to prepare a console cable yourself, the steps are similar to those for the common console port.

5.2 Login via MGMT Port

Establish a connection to the switch via the MGMT port. Then, you can log in using Telnet, SSH, web, SNMP, or other management protocols.

Connect one end of an Ethernet cable to the switch's MGMT port, and the other end to the Ethernet port of a remote device, such as a computer or another switch.

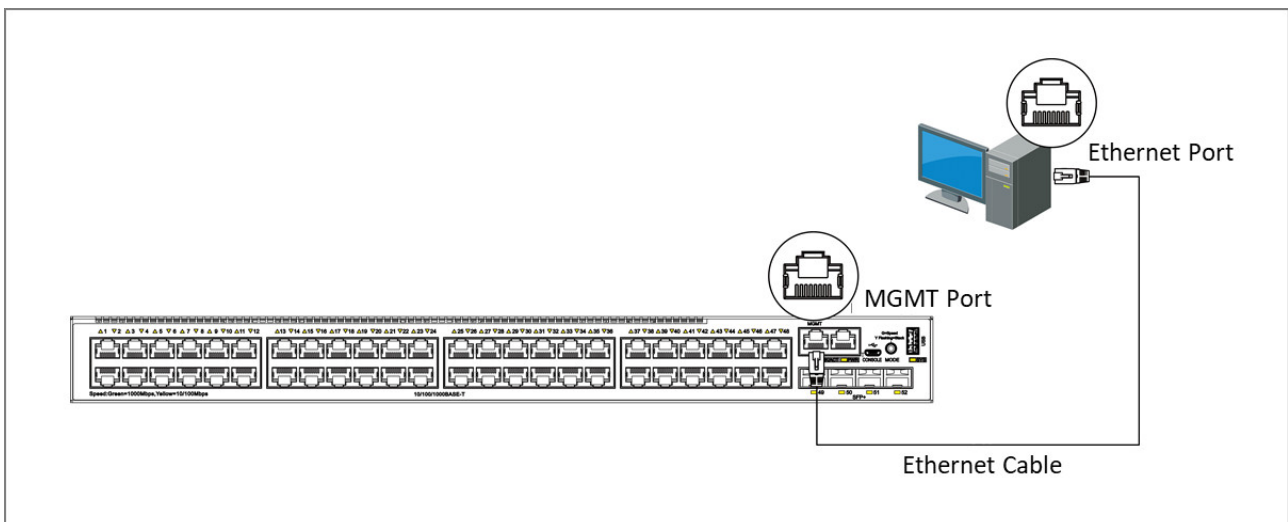


Figure 5-2 Log In to Switch via MGMT Port

Note

- Manually configure the computer's IP address to be in the same subnet as the switch's MGMT port. The default IP address of the MGMT port is 192.168.2.64/24.
- Telnet, SSH, and SNMP are disabled by default and can be enabled through the web interface or CLI.

5.3 Login via Ethernet Port

Connect to the switch via an Ethernet port to access its web interface.

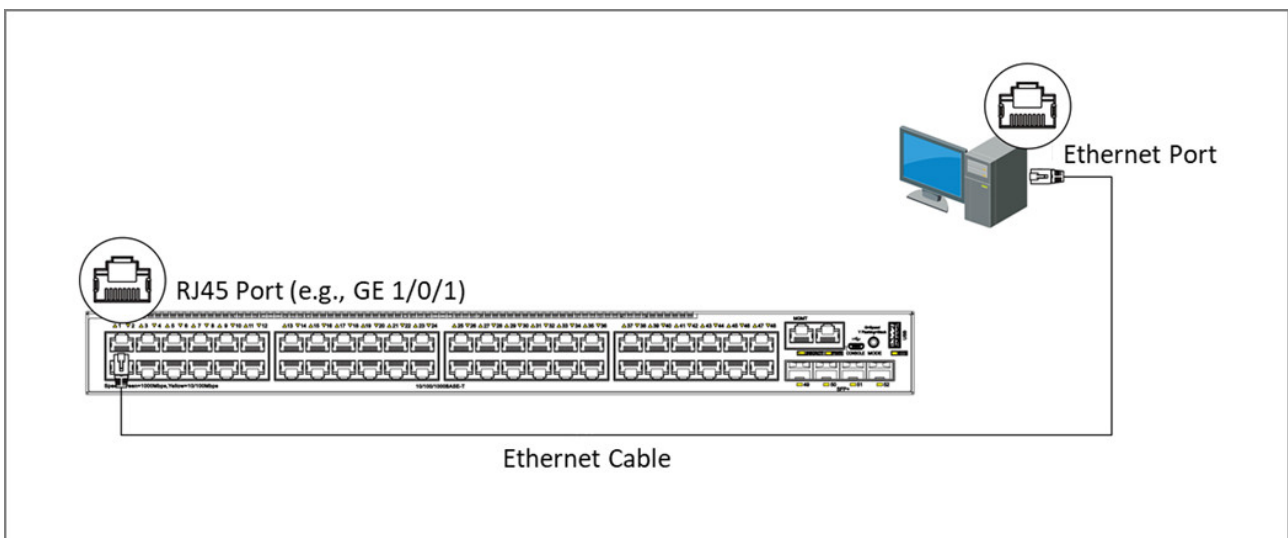


Figure 5-3 Log In to Switch via Ethernet Port

Step 1 Connect the switch's Ethernet port (RJ45 port) to a computer's Ethernet port with an Ethernet cable.

Step 2 Power on the switch.

Step 3 Set the IP address of your computer to be on the same network segment as the switch.

Note

- The default IP address of the switch is 192.168.1.64/24.
- Set the computer's IP address to 192.168.1.XXX (where XXX is an integer ranging from 1 to 63 or 65 to 254), or manually set the switch's IP address to ensure that it is on the same network segment as the computer.

Step 4 Open a web browser and enter the switch's IP address in the address bar.

Step 5 Access the switch's web interface and enter your user name and password to log in.



Note

- If the device is not activated, activate it first.
- For detailed web operations, please scan the QR code in ***Chapter 6 Get More Information*** to obtain the switch's web user manual.

5.4 Setup via Hik-Partner Pro App

Setup via HPP

1

Internet
AC Router
Layer 3 Switch
Full Managed Switch Full Managed Switch
Ceiling AP IPC

** This network topology is for your reference only. You can connect your devices according to your actual networking requirements.*

Use an Ethernet cable to connect the switch's **RJ45 port** to the LAN port of an AC router or an Ethernet port.

Use an Ethernet cable to connect the switch's **RJ45 port** to that of an AP, IPC, or another switch.

2

** Connect your phone to a Wi-Fi network. If you cannot connect to a Wi-Fi network, use a USB-C RJ45 adapter to connect your phone to a LAN. Make sure your phone and the devices in your networking are on the same LAN.*

OR

→

Download HPP Open and log in to HPP

3

Add Site

If this is your first time using HPP, create a site. Otherwise, proceed with **Add Device**.

----- Add Device -----
Activate Device
Configure Device
----- Completed ! -----

HPP automatically detects devices on the same LAN. You can also add devices manually if needed.

Enter the **admin** password to activate the device(s).
** This step is skipped if all devices are already activated.*

Initialize, configure, and add device(s) to the site.

Hand over the site to the customer.

Figure 5-4 Setup via HPP

Before You Start

- Download the Hik-Partner Pro app.
- Connect your phone to a Wi-Fi network. If you cannot connect to a Wi-Fi network, use a USB-C RJ45 adapter to connect your phone to a LAN. Ensure your phone and the devices in your networking are on the same LAN, and the devices are not activated.



Note

The network topology in Figure 5-4 is taken as an example only. You can connect your devices according to your actual networking requirements.

Step 1 Connect the devices to the same network and power them on.

Step 2 Open and log in to the Hik-Partner Pro app.

Step 3 Create a site if you are a first-time HPP user. If not, select an existing site.

Step 4 Batch add the device(s) automatically detected by HPP on the same LAN, or manually add the device(s) if needed.

Step 5 Optional: Enter the password for user **admin** to activate the device(s).



Note

This step is skipped if all devices are already activated.

Step 6 Complete device initialization and configuration application, and then add the device(s) to the site as prompted.

Step 7 Optional: Hand over the site to the customer.

Chapter 6 Get More Information

Scan the QR code to obtain product documentation, including the switch's web user manual, command references, and configuration guides.



Figure 6-1 Product Documentation



See Far, Go Further