HiSecEngine USG6000F Series

Quick Start

Issue   04

Date   2023-01-18

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Contents

1 About This Document

Overview

Thank you for using USG6000F series products. This document shows the product appearance and provides the essential information required for cable connections and initial configuration of the USG6000F, helping you quickly complete the initial installation and configuration of the USG6000F. For detailed hardware description, refer to the *Hardware Guide*. For detailed configurations, refer to the *Configuration Guide* .

The following table lists the product version related to this document.

Product Name	Version
• USG6510F-D	V600R020C10
• USG6510F-DL	V600R021C00
• USG6525F	V600R021C10
• USG6530F-D	V600R022C00
• USG6530F-DL	V600R022C10
• USG6555F	
• USG6565F	
• USG6585F	
• USG6615F	
• USG6625F	
• USG6635F	
• USG6655F	
• USG6685F	
• USG6710F	
• USG6715F	
• USG6725F	

Intended Audience

This document is intended for installation personnel and administrators who install and maintain USG6000F. The installation personnel or administrators must have experience in the installation and maintenance of networking devices.

Symbol Conventions

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

Symbol	Description
⚠ DANGER	Indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.
⚠ WARNING	Indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.
⚠ CAUTION	Indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.
NOTICE	Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance deterioration, or unanticipated results. NOTICE is used to address practices not related to personal injury.
📖 NOTE	Supplements the important information in the main text. NOTE is used to address information not related to personal injury, equipment damage, and environment deterioration.

Update History

Updates between document issues are cumulative. Therefore, the latest document issue contains all updates made in previous issues.

Issue 05 (2023-04-21)

The fifth commercial release.

- Added the **USG6525F, USG6555F, USG6565F, USG6585F**, **USG6510F-D, USG6530F-D**, **USG6510F-DL, USG6530F-DL**.

Issue 04 (2022-11-24)

The fourth commercial release.

Issue 03 (2022-05-12)

The third commercial release.

- Added the **USG6685F**.
- Added the **USG6710F, USG6715F**.
- Added the **USG6725F**.

Issue 02 (2021-08-20)

The second commercial release.

Issue 01 (2021-01-29)

Initial commercial release.

2 Device Introduction and Cable Connection

⚠ DANGER

- Deactivate power whenever possible before performing maintenance on power cables.
- Always wear a properly-grounded wrist strap before touching the device.
- Laser beams will cause eye damage. Do not look into bores of optical modules or optical fibers without eye protection.
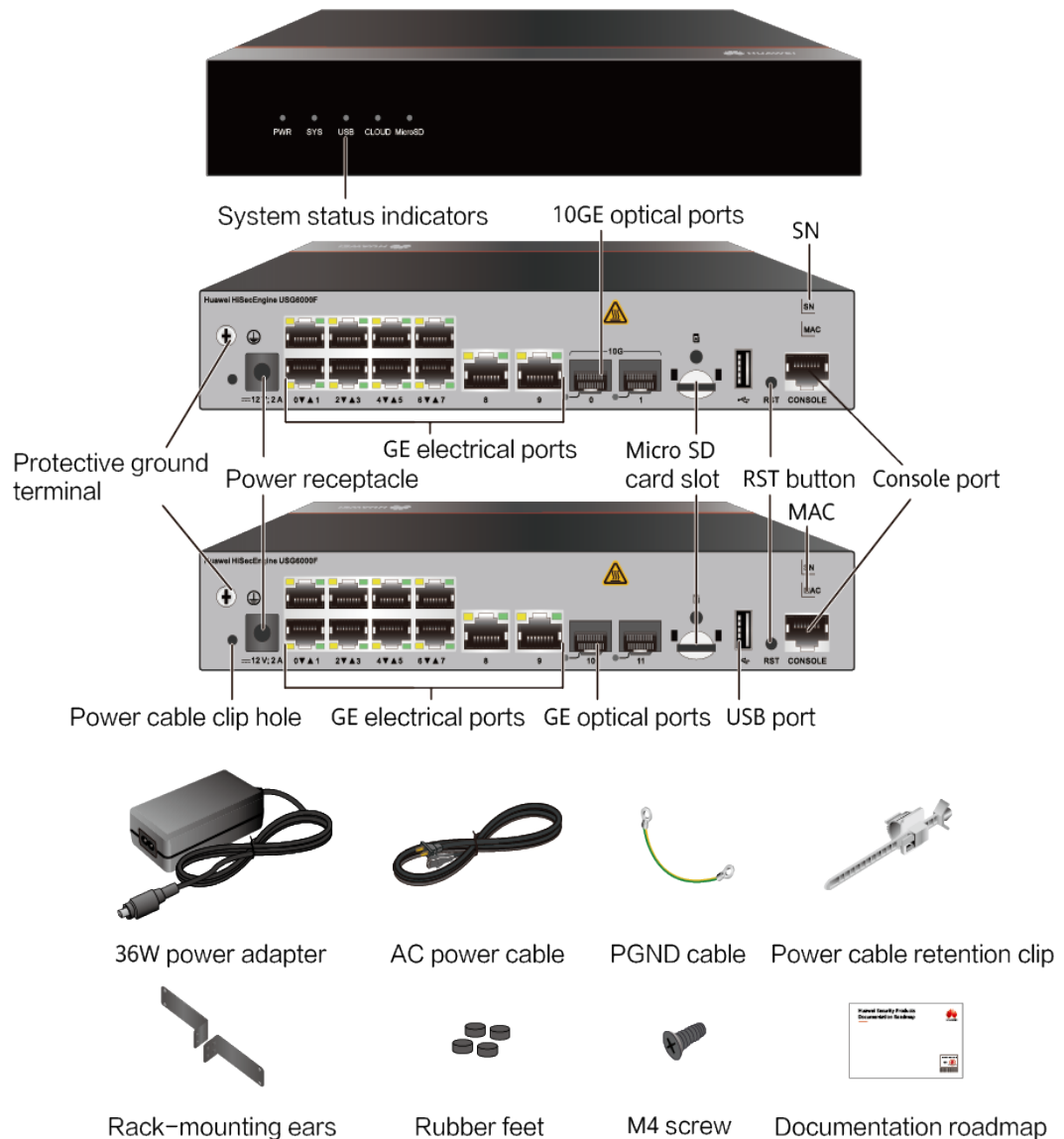
📖 NOTE

- Figures in the document are for reference only and may be different from actual devices.
- The type and quantity of items in a packing list vary with the product model. Check the delivered items against the actual packing list.
- Some devices are delivered with dust plugs. Cover idle optical interfaces with dust plugs. Keep the unused dust plugs for future use.
- The power cable varies according to the delivery country.
- To use adjustable mounting ears at the rear or adjustable guide rails, purchase them separately.

2.1 USG6510F-D, USG6530F-D

Device and Auxiliary Materials

Figure 2-1 Appearance and auxiliary materials of the USG6510F-D, USG6530F-D

In the preceding figure, the USG6530F-D rear panel is on the center and the USG6510F-D rear panel is on the lower.
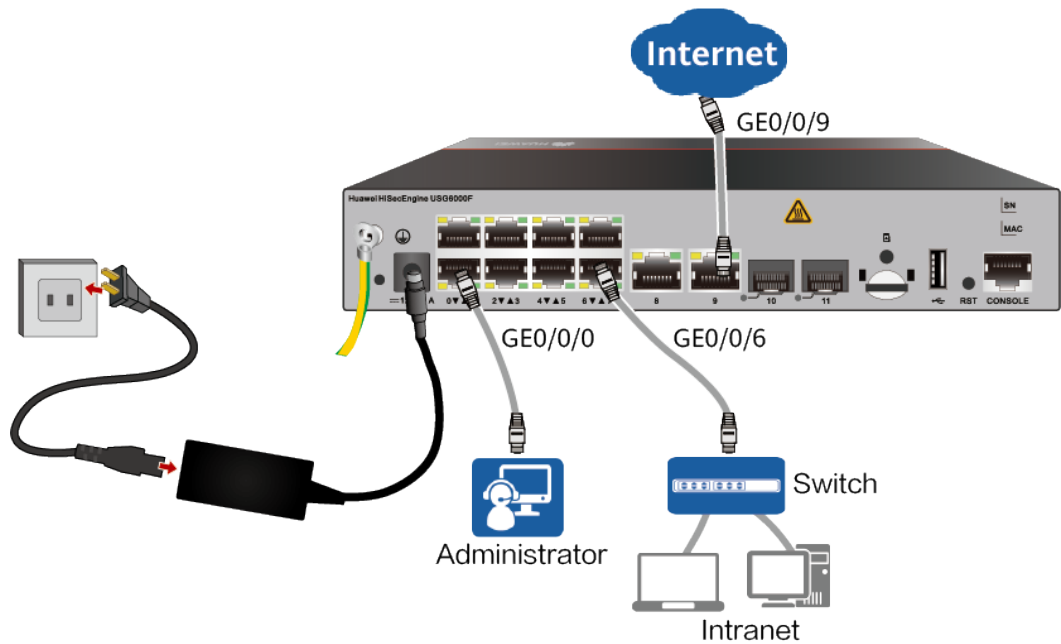
> **NOTE**
>
> - The mounting ears are optional.
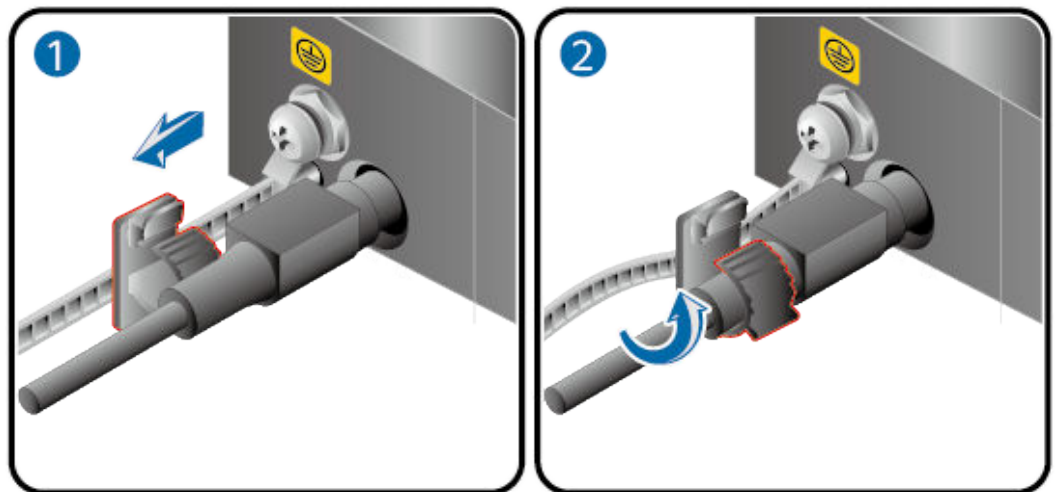> - The power cable varies according to the delivery country.

Cable Connection

Connect cables according to **Figure2** and power on the device. As device does not provide a power switch, it starts up immediately after receiving power. When the SYS indicator on the front panel is blinking (once every two seconds), the device is running and ready for configuration.

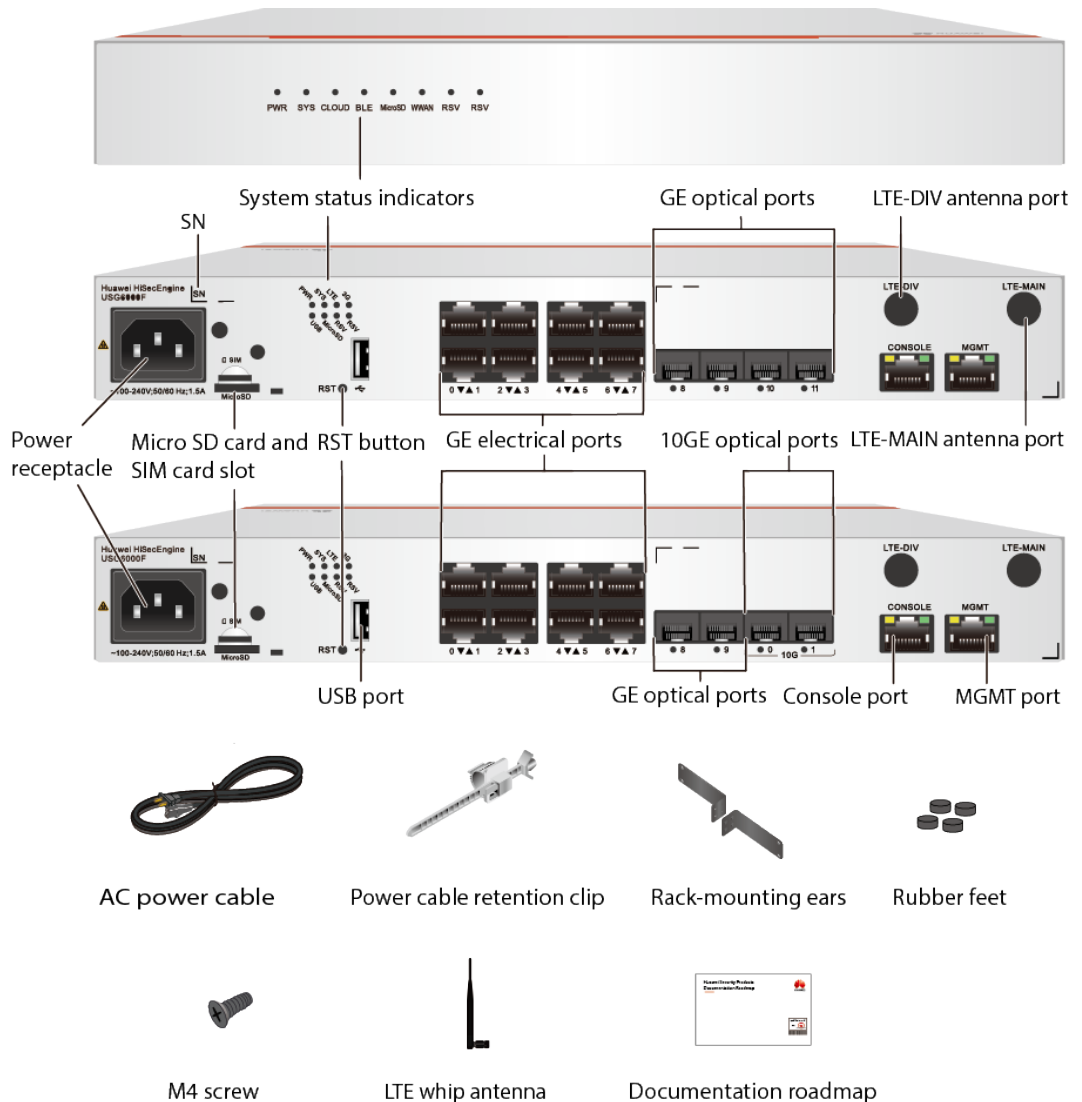**Figure 2-2** Connecting cables of USG6510F-D, USG6530F-D

☐ NOTE

After the power cable is installed, adjust the cable-retention clip to an appropriate position, use a cable-retention clip to bundle the cable of the power adapter, and adjust the cable-retention clip to fasten the cable.

2.2 USG6510F-DL, USG6530F-DL

Device and Auxiliary Materials

Figure 2-3 Appearance and auxiliary materials of the USG6510F-DL, USG6530F-DL

In the preceding figure, the USG6510F-DL rear panel is on the center and the USG6530F-DL rear panel is on the lower.
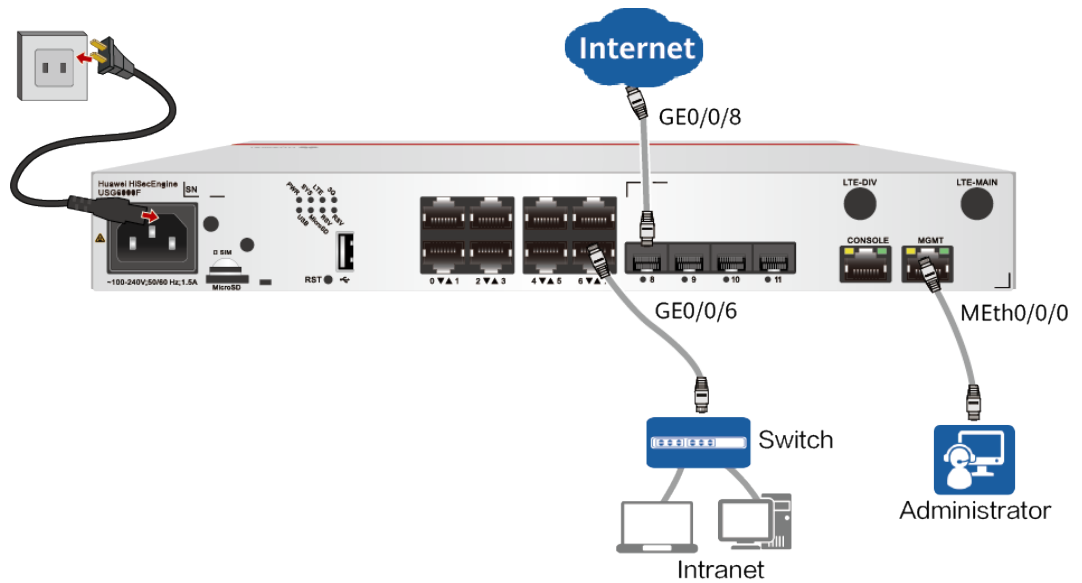
📖 **NOTE**

- The mounting ears are optional.
- The power cable varies according to the delivery country.

Cable Connection

Connect cables according to **Figure2** and power on the device. As device does not provide a power switch, it starts up immediately after receiving power. When the SYS indicator on the front panel is blinking (once every two seconds), the device is running and ready for configuration.

**Figure 2-4** Connecting cables of USG6510F-DL, USG6530F-DL

NOTE

> After the power cable is installed, adjust the cable-retention clip to an appropriate position, use a cable-retention clip to bundle the cable of the power adapter, and adjust the cable-retention clip to fasten the cable.

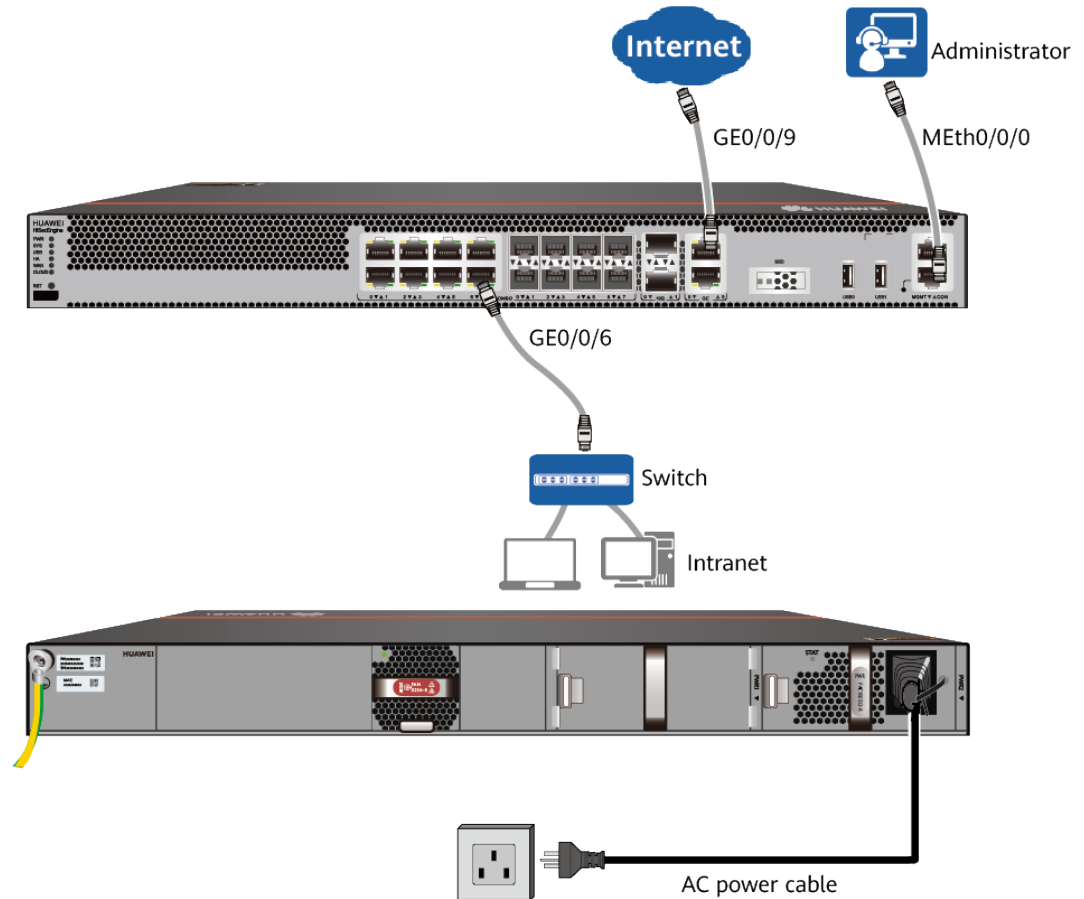# 2.3 USG6525F, USG6555F, USG6565F, USG6585F

Device and Auxiliary Materials

Figure 2-5 Appearance and auxiliary materials of the USG6525F, USG6555F, USG6565F, USG6585F
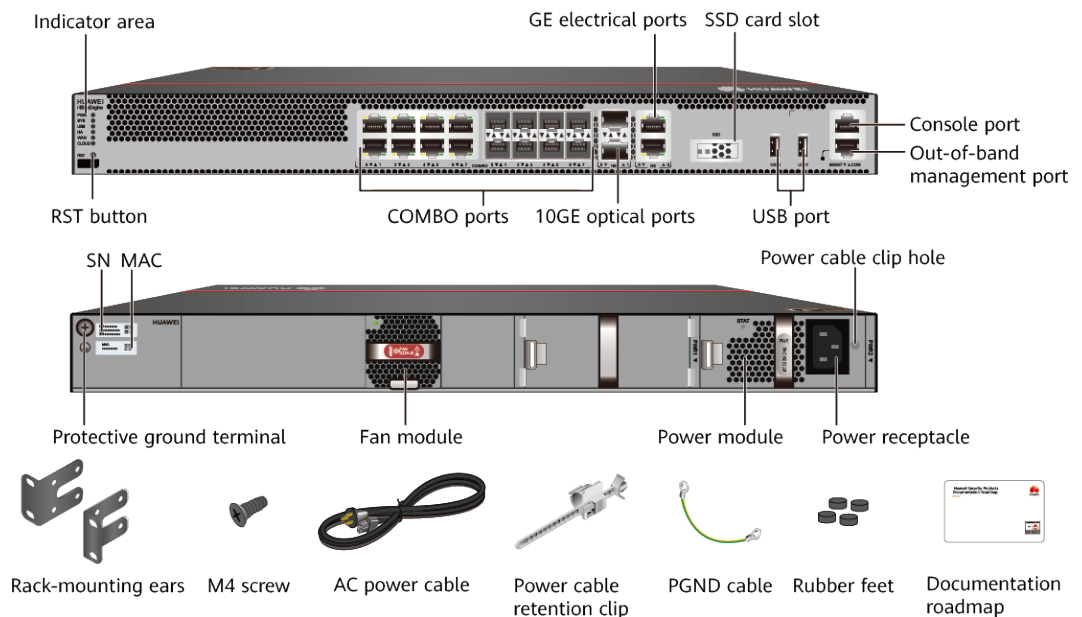
Cable Connection

Connect cables according to **Figure2** and power on the device. As device does not provide a power switch, it starts up immediately after receiving power. When the SYS indicator on the front panel is blinking (once every two seconds), the device is running and ready for configuration.

Figure 2-6 Connecting cables of USG6525F, USG6555F, USG6565F, USG6585F

2.4 USG6525F, USG6555F, USG6565F, USG6585F, USG6615F, USG6625F

Device and Auxiliary Materials

Figure 2-7 Appearance and auxiliary materials of the USG6525F, USG6555F, USG6565F, USG6585F, USG6615F, USG6625F

Indicator area   HDD/SSD disk slot   GE electrical ports   GE optical ports   Console port   USB3.0

RST button   OFL button   COMBO electrical ports   COMBO optical ports   10GE optical ports   Out-of-band management port

Protective ground terminal

SN   MAC   SIC expansion slot   Fan   Power module   Power receptacle

Rack-mounting ears   M4 screw   AC power cable   PGND cable   Documentation Roadmap

Cable Connection

Connect cables according to **Figure2** and power on the device. As device does not provide a power switch, it starts up immediately after receiving power. When the SYS indicator on the front panel is blinking (once every two seconds), the device is running and ready for configuration.
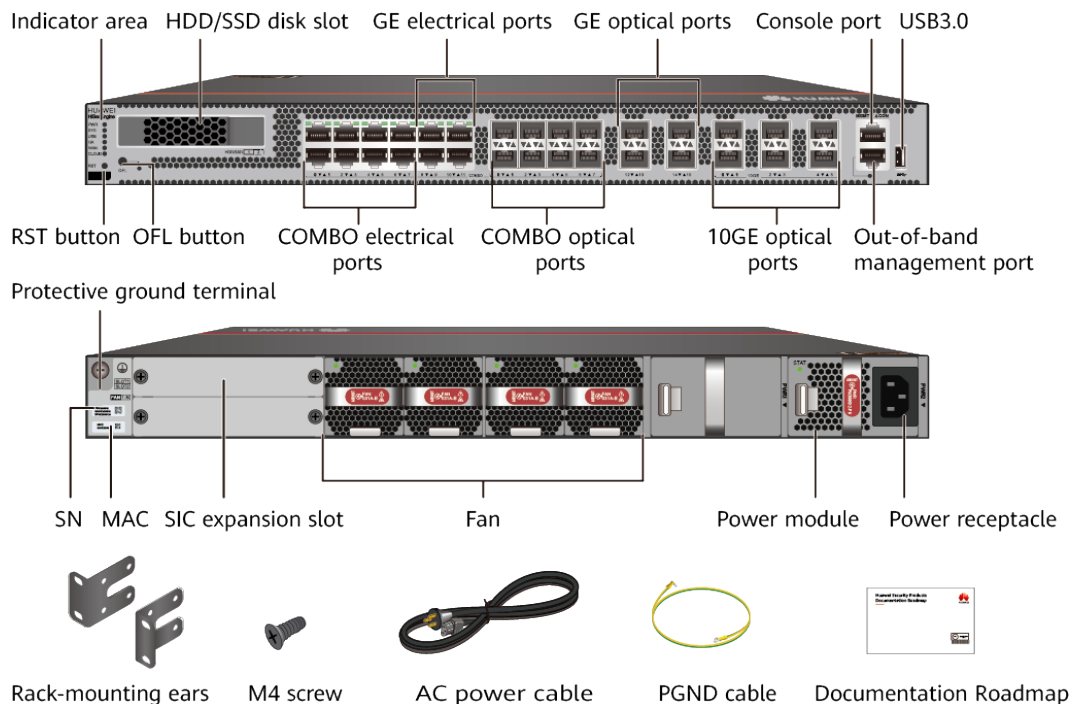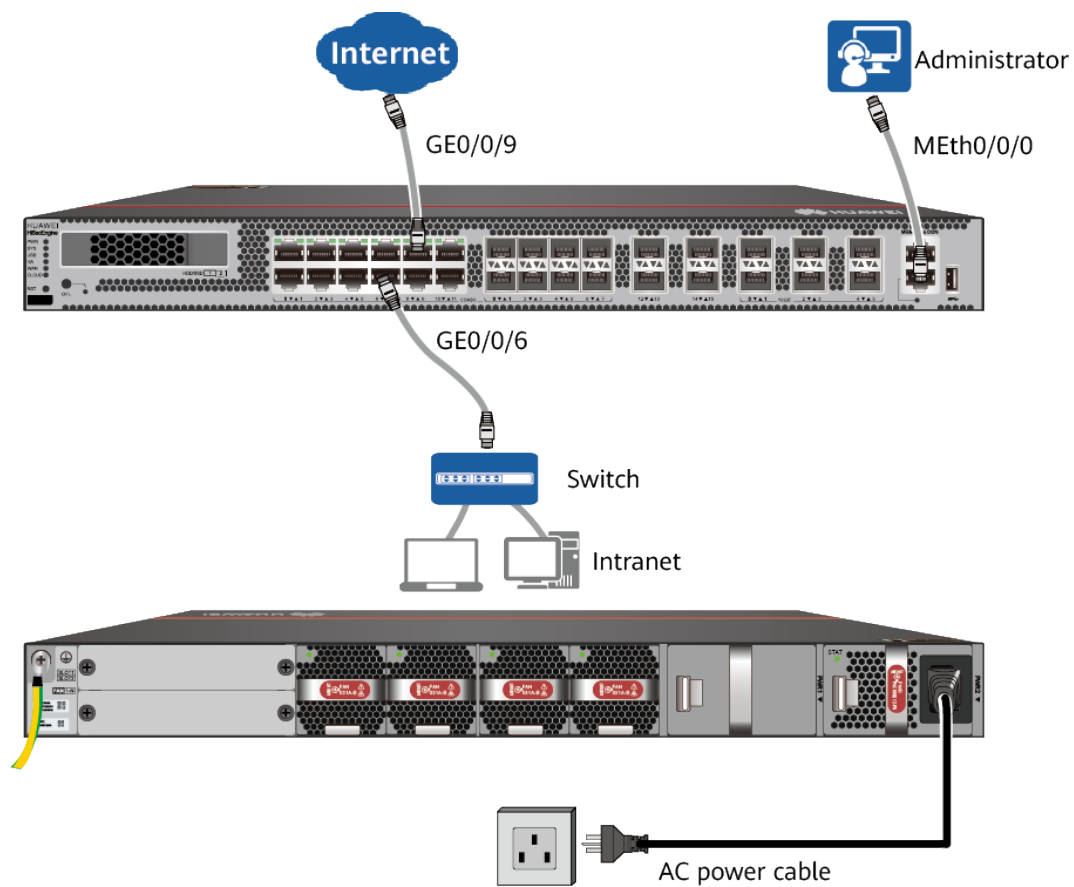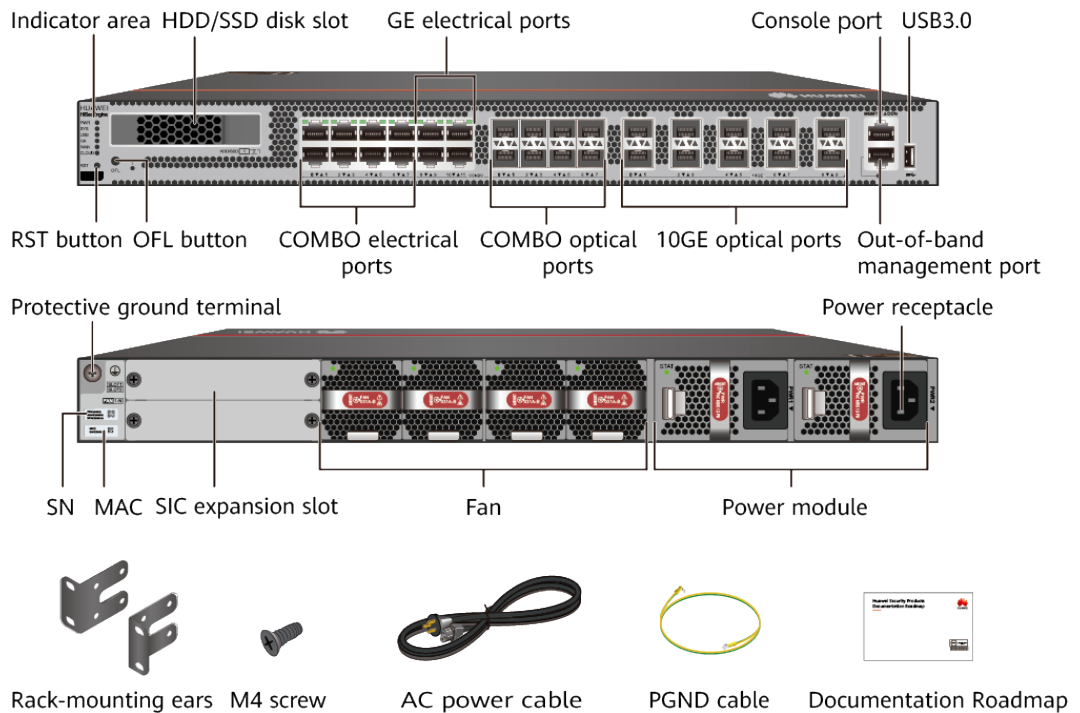
Figure 2-8 Connecting cables of USG6525F, USG6555F, USG6565F, USG6585F, USG6615F, USG6625F

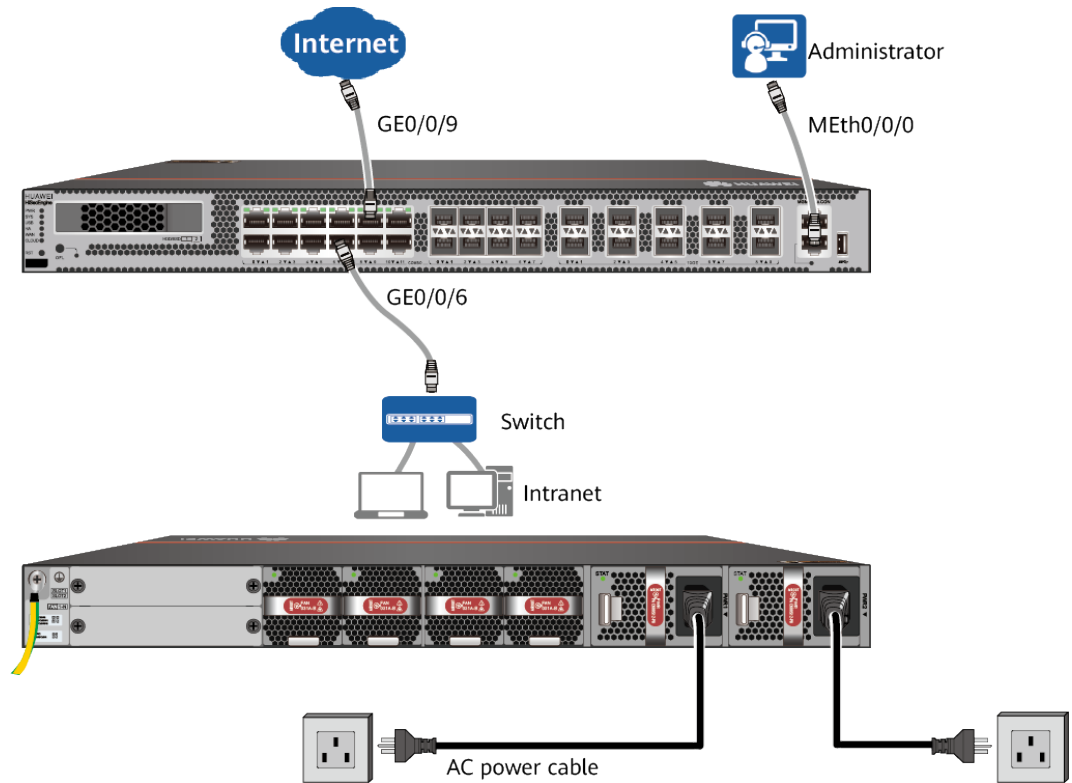# 2.5 USG6635F, USG6655F, USG6685F

Device and Auxiliary Materials

Figure 2-9 Appearance and auxiliary materials of USG6635F, USG6655F, USG6685F

Cable Connection

Connect cables according to **Figure2** and power on the device. As device does not provide a power switch, it starts up immediately after receiving power. When the SYS indicator on the front panel is blinking (once every two seconds), the device is running and ready for configuration.

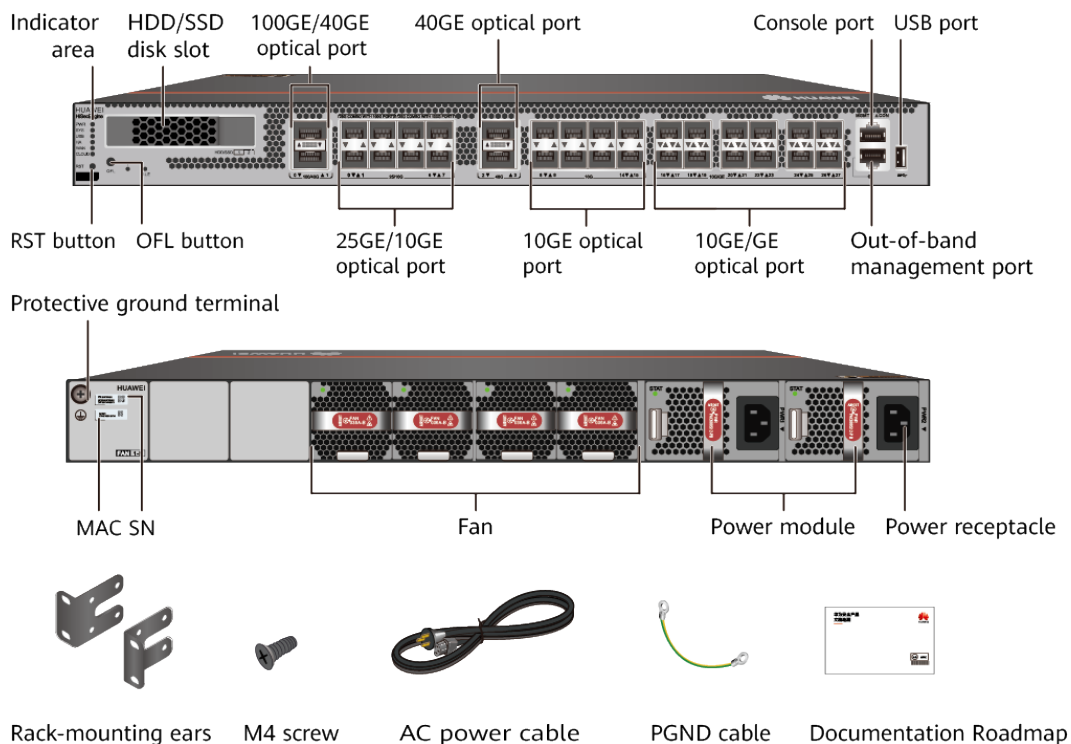**Figure 2-10** Connecting cables of USG6635F, USG6655F, USG6685F

2.6 USG6710F, USG6715F

Device and Auxiliary Materials

In the preceding figure, the AC model is used as an example. The USG6715F AC and DC models differ only in the power supply mode.
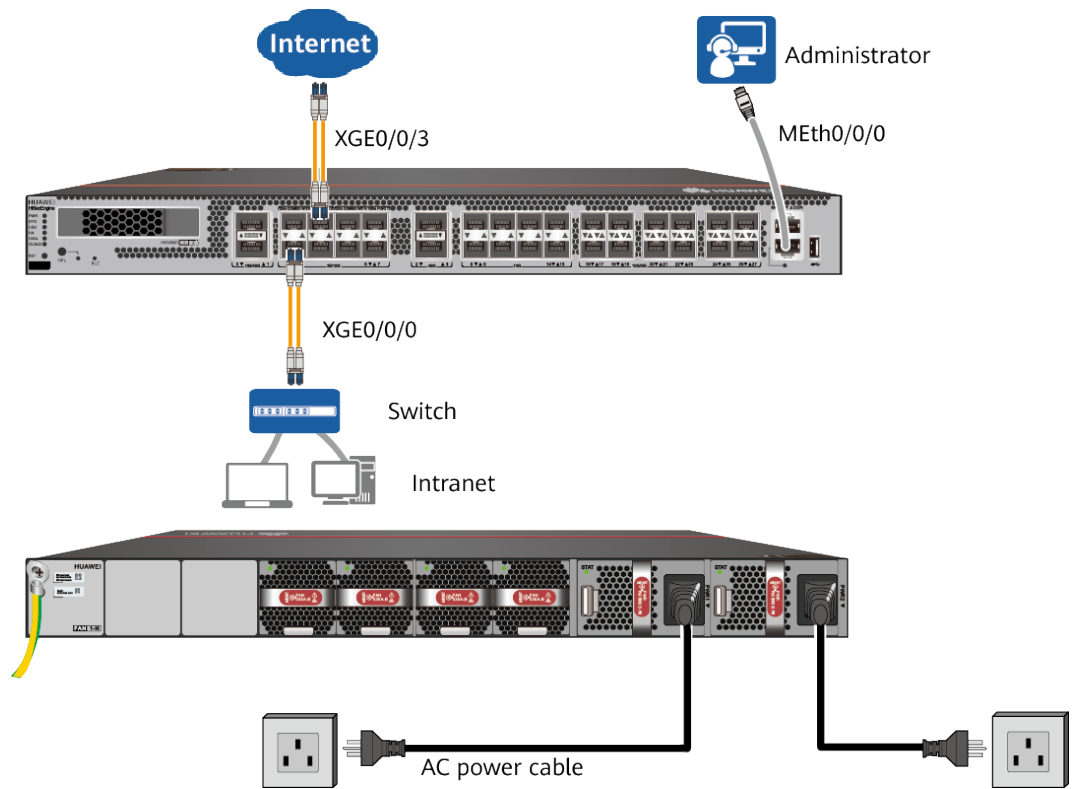
Figure 2-11 Appearance and auxiliary materials of the USG6710F, USG6715F

Rack-mounting ears   M4 screw   AC power cable   PGND cable   Documentation Roadmap

Cable Connection

Connect cables according to **Figure2** and power on the device. As device does not provide a power switch, it starts up immediately after receiving power. When the SYS indicator on the front panel is blinking (once every two seconds), the device is running and ready for configuration.

Figure 2-12 Connecting cables of USG6710F, USG6715F

2.7 USG6725F

Device and Auxiliary Materials

Figure 2-13 Appearance and auxiliary materials of the USG6725F

Cable Connection

Connect cables according to **Figure2** and power on the device. As device does not provide a power switch, it starts up immediately after receiving power. When the SYS indicator on the front panel is blinking (once every two seconds), the device is running and ready for configuration.
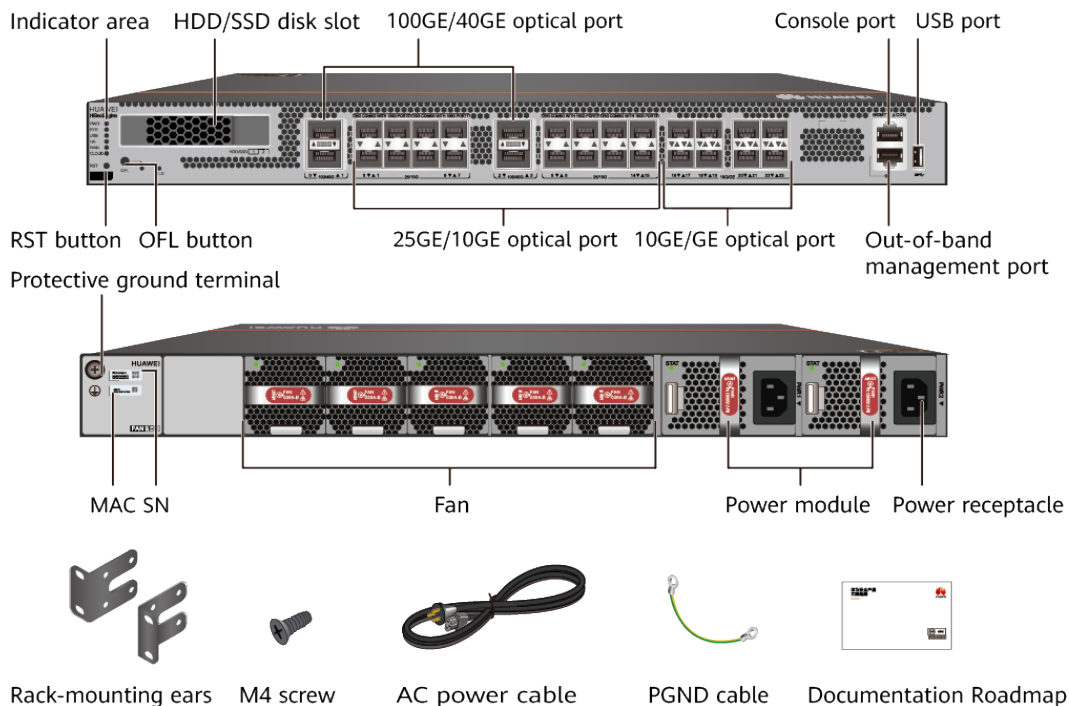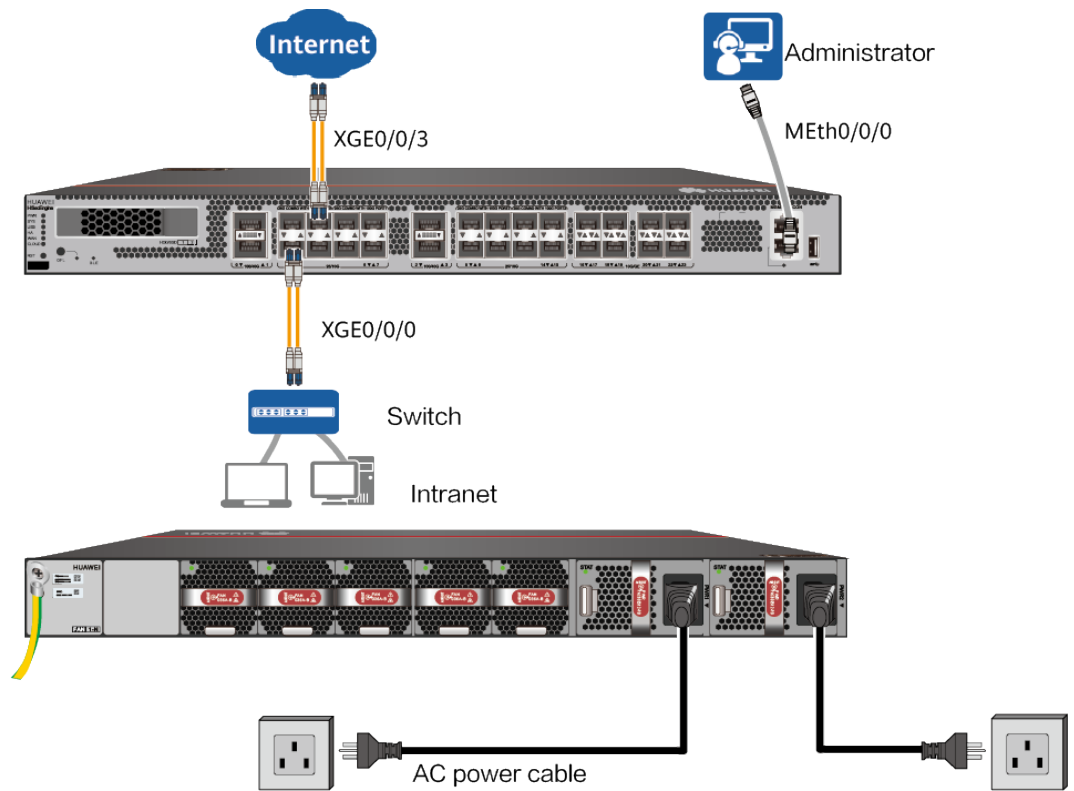
Figure 2-14 Connecting cables of USG6725F
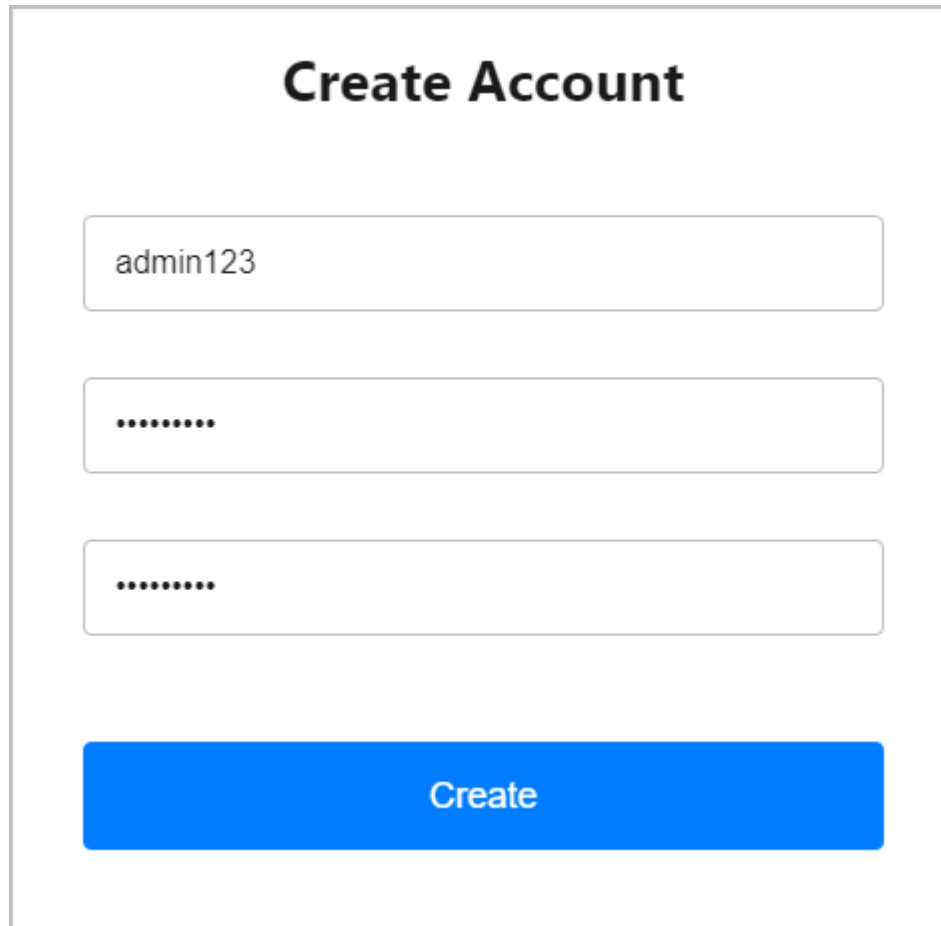
3 Accessing the Internet

Default Configuration

Table 3-1 lists the default configuration of the device.

Table 3-1 Default configuration

Item	Description
Management port	The IP address is 192.168.0.1.
Administrator account/password	No default account/password (Instead, registration is required upon your first login.)

Procedure

Step 1 Set the IP address to 192.168.0.2 (or any other in the range of 192.168.0.2 to 192.168.0.254) and subnet mask to 255.255.255.0 of the corresponding network interface on the administration PC.

Step 2 Open a web browser and navigate to https://192.168.0.1:8443.

Step 3 Log in to the web management page of the device and register an administrator account and password as prompted.

Step 4 After the account is created successfully, the system displays a message prompting you to use the account to log in to the device. Click **OK**.

Step 5 On the login page that is displayed, enter the created user name and password ,enter the captcha coad and click **Login**.

Step 6 Entering the **Startup Wizard** page, on the **Basic Configuration** tab page, configure basic device information and system time parameters, and then click **Next**. For details about related parameters, see **Table 3-2**.

📖 **NOTE**

By default, the **Startup Wizard** page is displayed after you log in. If you do not want to enter the **Startup Wizard** page immediately after login, select **Do not show again** in the lower left corner of the page. Then the **Dashboard** page is displayed after you log in next time.

Table 3-2 Basic configuration parameters

| Parameter	Description
Device Name	Host name of the device. The host name appears in the command prompt, and can be modified as required.
Change Password	Configure whether to change the administrator password for logging in to the web system. You are required to change the administrator password upon the first login.
Current Password	Enter the old password of the account.
New Password	Enter a new password.
Confirm Password	Enter the new password again. Ensure that the new passwords you entered twice are consistent.
Configuration Mode	Use one of the following methods to set the system time: ● **Manual** ● **Synchronize with local system** If you select this method, the time zone, date, and system time cannot be manually set. ● **Synchronize with NTP server** If you select this method, you also need to set the IP address of the NTP server.

Parameter	Description
Time Zone	Select the time zone in which the device is located from the drop-down list.
Date & Time	Use either of the following methods to set the system date and time: ● Enter the system date and time in the text boxes. The date format is YYYY/MM/DD, and the time format is HH:MM:SS. ● Click 📅 and select the date and time from the calendar that is displayed.
DST	If this option is selected, the system automatically adjusts the clock for daylight saving time (DST).
Start Time	Start time of the DST. This parameter is displayed when **Automatically adjust for daylight saving time** is selected.
End Time	End time of the DST. This parameter is displayed when **Automatically adjust for daylight saving time** is selected.
Offset	DST offset. This parameter is displayed when **Automatically adjust for daylight saving time** is selected. For example, set **Start Time** to 08:00 on the first Monday in August, **End Time** to 10:00 on the first Monday in October, and **Offset** to 01:00. After the setting is complete, the system time is automatically set to 09:00:00 at 08:00:00 on the first Monday in August, and to 09:00:01 at 10:00:01 on the first Monday in October.

Step 7 On the **Device Deployment** tab page, select a device deployment mode and click **Confirm**.
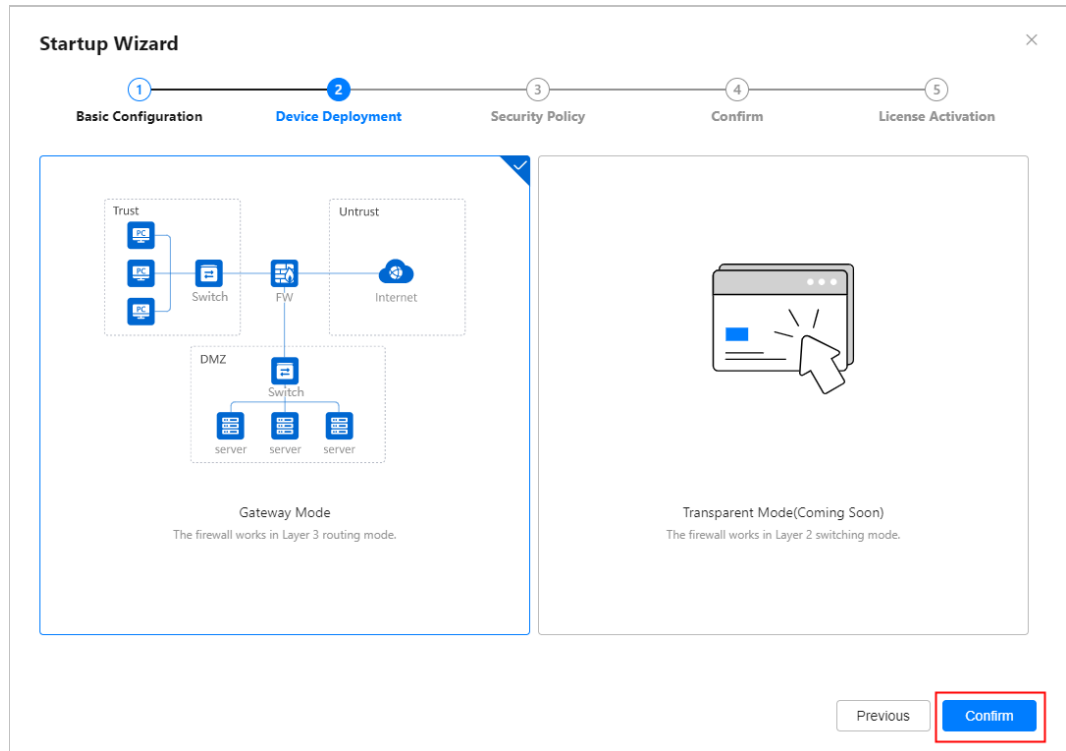
NOTE

Currently, only the **Gateway Mode** configuration wizard is supported.

Step 8 On the **Device Deployment** tab page, set network parameters. If the DMZ needs to be deployed for the device, click ⬤ to enable the DMZ configuration, set related parameters, and click **Next**. For details about related parameters, see **Table 3-3**, **Table 3-4**, and **Table 3-5**.

Table 3-3 Parameter description for **Internet Configuration (Untrust Zone)**

Parameter	Description
Internet Access Interface	Select an interface for accessing the Internet.
Internet Access Mode	Select an Internet access mode. ● **Static IP**: If you obtain a fixed IP address or an IP address range from a network service provider, select this access mode. ● **DHCP**: If you automatically obtain IP addresses from a network service provider, select this access mode.
IP/Mask	IP address and subnet mask of the Internet access interface. This parameter is mandatory when **Internet Access Mode** is set to **Static IP**. The IP address is provided by a network service provider and is in dotted decimal notation, for example, 1.1.1.1. A typical subnet mask is similar to 255.x.x.x.

Parameter	Description
Default Gateway	IP address of the default gateway of the Internet access interface. The Internet access interface sends Internet access packets from intranet users to the default gateway, which then forwards the packets. This parameter is mandatory when **Internet Access Mode** is set to **Static IP**.
	The default gateway is provided by a network service provider and is in dotted decimal notation, for example, 1.1.1.254.
DNS1	IP address of the primary DNS server. This parameter is mandatory when **Internet Access Mode** is set to **Static IP**.
	Hosts in the LAN need to use domain names to access websites. Therefore, you need to specify the IP address of the DNS server. This parameter is provided by a network service provider.
DNS2	IP address of the secondary DNS server. When the primary DNS server is faulty, the device accesses the secondary DNS server to resolve domain names.
	This parameter is provided by a network service provider.
DNS3	IP address of the secondary DNS server. When the primary DNS server is faulty, the device accesses the secondary DNS server to resolve domain names.
	This parameter is provided by a network service provider.

Table 3-4 Parameter description for **LAN Configuration (Trust Zone)**

Parameter	Description
Interface	Select the interface connected to the LAN on the device.
IP/Mask	IP address and subnet mask of the interface connected to the LAN. A private address such as 10.0.0.1 or 192.168.0.1 is recommended.
DHCP Server	Click ⬤ to enable the DHCP service on the LAN. After the DHCP service on the LAN is enabled, users on the LAN can be automatically assigned IP addresses ranging from the start IP address to the end IP address.
	Enter the start and end IP addresses to be assigned to DHCP clients next to **IP Address Range**. Enter the subnet mask next to **Subnet Mask**.

Parameter	Description
NAT Policy	Click ⬜ to enable the NAT service to translate internal IP addresses into public IP addresses. The value can be **Outbound interface** or **Address in the IP address pool**.

Table 3-5 Parameter description for **DMZ Configuration(DMZ)**

Parameter	Description
DMZ Interface	Select the interface connecting the device to the DMZ.
IP/Mask	IP address and subnet mask of the interface connected to the DMZ. A private address such as 10.0.0.1 or 192.168.0.1 is recommended.

| Parameter	Description

Server Mapping Configuration	1. Click **Add** to configure server mapping and map the private IP address of the intranet server to a public IP address.
	
	2. Click ✓ to save the configuration.
	
	3. (Optional) Click **Configure** in the **Advanced** column to perform advanced configuration.
	
	  – **Protocol and Port Configuration**: This function is disabled by default. After this function is enabled, you can configure the protocol type used by the server to provide services for external systems, the port number provided by the server for external users, and the internal port number of the server. When **Protocol** is set to TCP or UDP, **Public Port** and **Private Port** are displayed.
	
	  – **Allow Server to Use Public IP for Internet Access**: If this option is not selected, the device generates only forward server mapping entries. When the server proactively accesses the Internet, the device cannot translate the private IP address of the server into a public IP address. As a result, the server cannot initiate connections to the Internet. If this option is selected, the device generates return server mapping entries, and the server can use public IP addresses to access the Internet proactively.
	For security purposes, do not select this option if the server does not need to access Internet resources.
	
	  – **Auto Generate Blackhole Route**: If this option is selected, the blackhole route to the public IP address is automatically delivered to prevent routing loops. In addition, after a dynamic routing protocol such as OSPF is configured to import static routes, public IP addresses can be advertised through the dynamic routing protocol, and the upstream and downstream routers can receive the routes to the public IP addresses. If the global address configured in NAT Server and the public network interface address are on different network segments, you must configure a blackhole route. If they are on the same network segment, you are advised to configure a blackhole route.
	If the IP addresses are the same, no routing loops will be generated, and the blackhole route cannot be configured.

Step 9 On the **Security Policy** tab page, set security policy parameters for the Trust zone or DMZ zone. The configuration mode can be **Basic access** or **Security protection**. Then click **Next**.
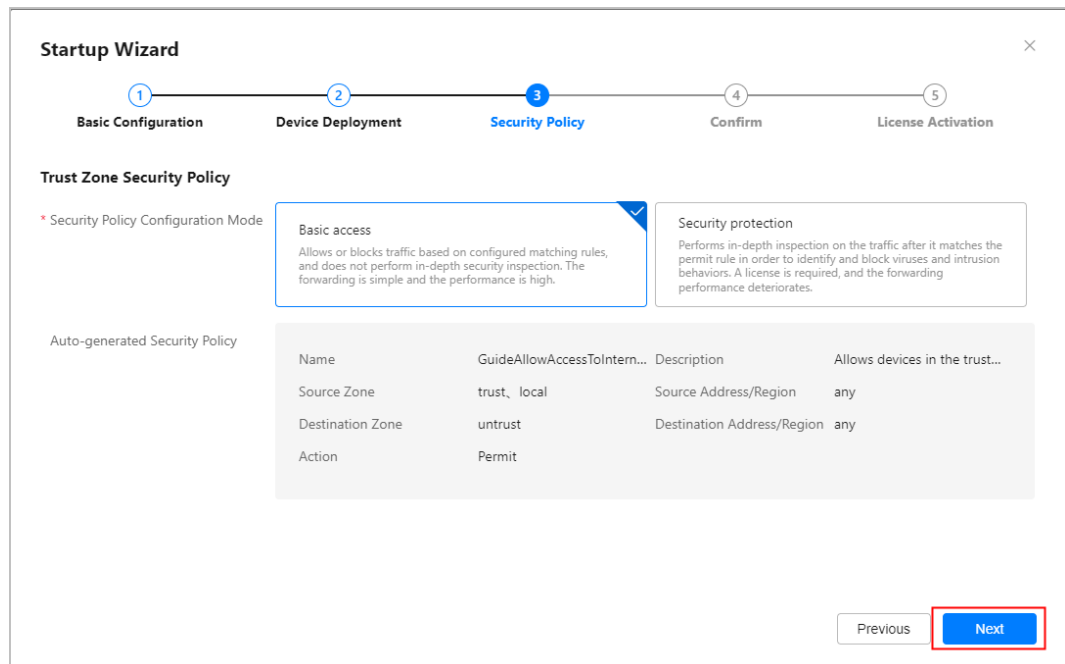
Step 10 On the **Confirm** tab page, confirm the configuration information and click **Submit**.
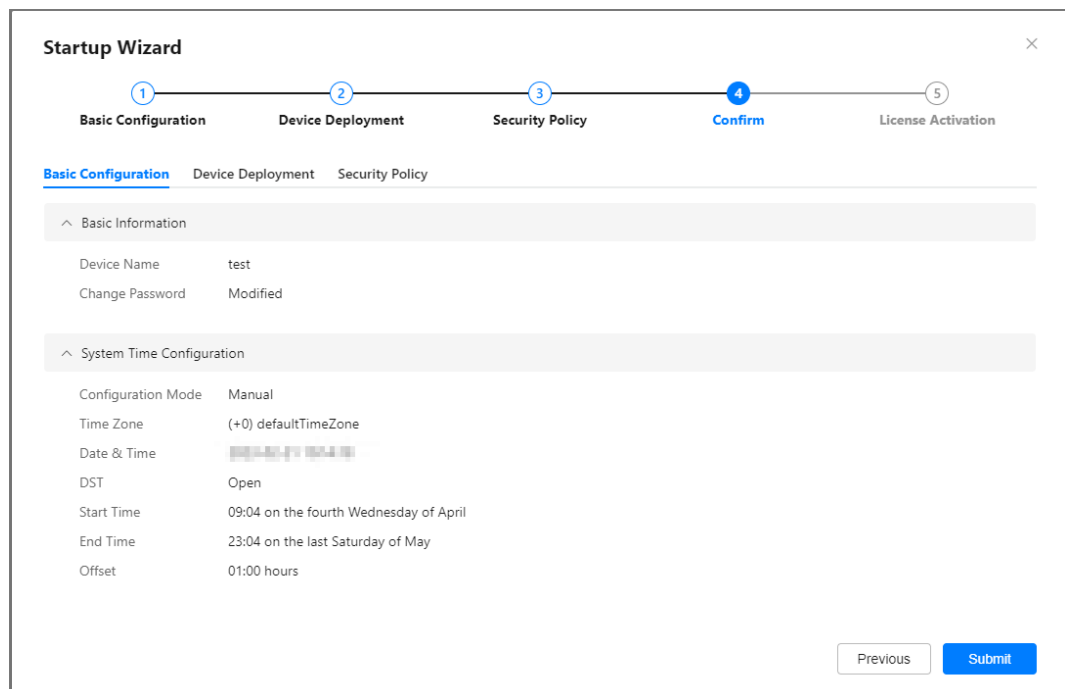
Step 11 On the **License Activation** tab page, click **Browse** to upload a license file. Click **Activate**. After the basic license is activated, click **Complete**.
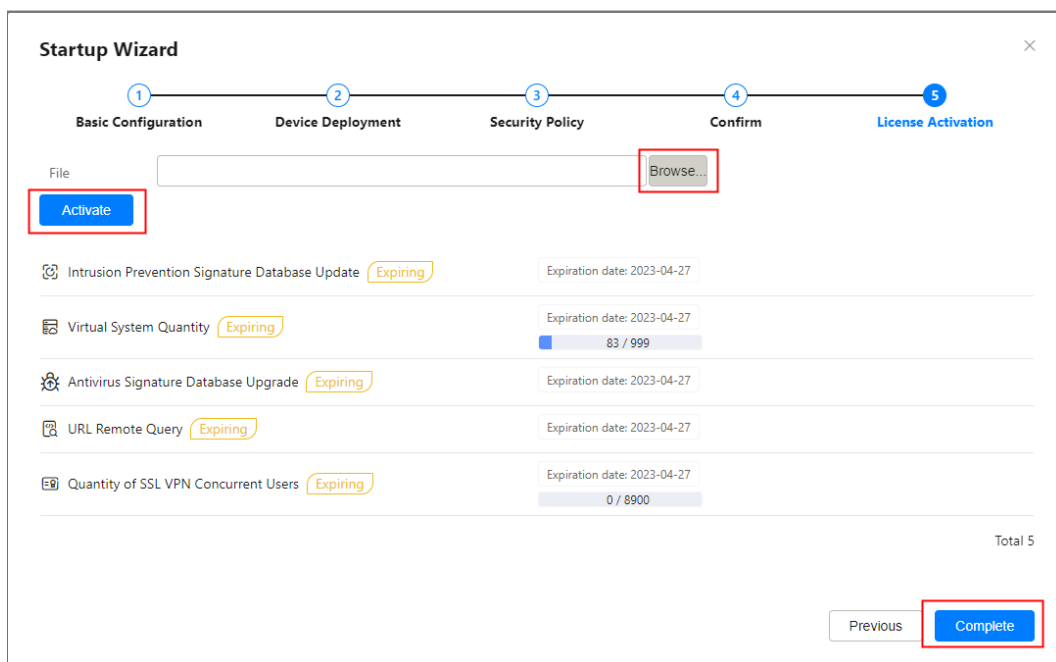
Step 12 After the configuration is complete, choose **System** > **Startup Wizard** to access the configuration wizard page again.

----End

4 Appendix

4.1 Supplier's Declaration of Conformity (SDoC)

Unique Identifier: trade name: HUAWEI; product name: Firewall; model number: USG6000F

Responsible Party- U.S. Contact Information

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Plano, Texas 75024

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FCC Compliance Statement (for products subject to Part 15)

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.

4.2 Obtaining Product Documents and Technical Support

- Log in to **https://support.huawei.com/weiknow/?lang=en** to ask questions online.
- Log in to **Support-E**, and select a specific product model and version to find its documentation.
- Log in to the Info-Finder website **Info-Finder**, view the hardware and software specifications of the device based on the product model and version information.
- Log in to **https://forum.huawei.com/enterprise** and post your questions in the community.

- Contact your local representative for further information.

  📖 NOTE

  The contact information is available at **https://e.huawei.com/en/service-hotline**.