

HUAWEI USG6000E Series Quick Start

Issue 02
Date 2022-08-22



Copyright © Huawei Technologies Co., Ltd. 2022. All rights reserved.

No part of this document may be reproduced or transmitted in any form or by any means without prior written consent of Huawei Technologies Co., Ltd.

Trademarks and Permissions



HUAWEI and other Huawei trademarks are trademarks of Huawei Technologies Co., Ltd.

All other trademarks and trade names mentioned in this document are the property of their respective holders.

Notice

The purchased products, services and features are stipulated by the contract made between Huawei and the customer. All or part of the products, services and features described in this document may not be within the purchase scope or the usage scope. Unless otherwise specified in the contract, all statements, information, and recommendations in this document are provided "AS IS" without warranties, guarantees or representations of any kind, either express or implied.

The information in this document is subject to change without notice. Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information, and recommendations in this document do not constitute a warranty of any kind, express or implied.

Huawei Technologies Co., Ltd.

Address: Huawei Industrial Base
Bantian, Longgang
Shenzhen 518129
People's Republic of China

Website: <https://e.huawei.com>

Contents

1 About This Document.....	1
2 Device Introduction and Cable Connection.....	4
2.1 USG6510E, USG6530E.....	5
2.2 USG6510E-POE.....	7
2.3 USG6525E, USG6555E, USG6565E, USG6585E.....	9
2.4 USG6515E, USG6550E, USG6560E, USG6580E.....	11
2.5 USG6575E-B, USG6605E-B.....	13
2.6 USG6610E, USG6620E.....	15
2.7 USG6615E, USG6620E-K, USG6625E.....	17
2.8 USG6630E, USG6650E.....	18
2.9 USG6635E, USG6640E-K, USG6655E.....	20
2.10 USG6680E.....	23
2.11 USG6712E, USG6716E.....	24
3 Accessing the Internet.....	26
4 Appendix.....	32
4.1 Activating Licenses.....	32
4.2 Supplier's Declaration of Conformity (SDoC).....	32
4.3 Obtaining Product Documents and Technical Support.....	33

1 About This Document

Overview

Thank you for using USG6000E series products. This document shows the product appearance and provides the essential information required for cable connections and initial configuration of the , helping you quickly complete the initial installation and configuration of the . 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	Product Version
<ul style="list-style-type: none">● USG6500E<ul style="list-style-type: none">- USG6510E- USG6510E-POE- USG6515E- USG6525E- USG6530E- USG6550E- USG6555E- USG6560E- USG6565E- USG6575E-B- USG6580E- USG6585E● USG6600E<ul style="list-style-type: none">- USG6605E-B- USG6610E- USG6615E- USG6620E- USG6625E- USG6630E- USG6635E- USG6650E- USG6655E- USG6680E● USG6700E<ul style="list-style-type: none">- USG6712E- USG6716E	<ul style="list-style-type: none">● V600R006● V600R007

Intended Audience

This document is intended for installation personnel and administrators who install and maintain . 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 02 (2022-08-22)**
The second commercial release.
- **Issue 01 (2022-04-20)**
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.
-

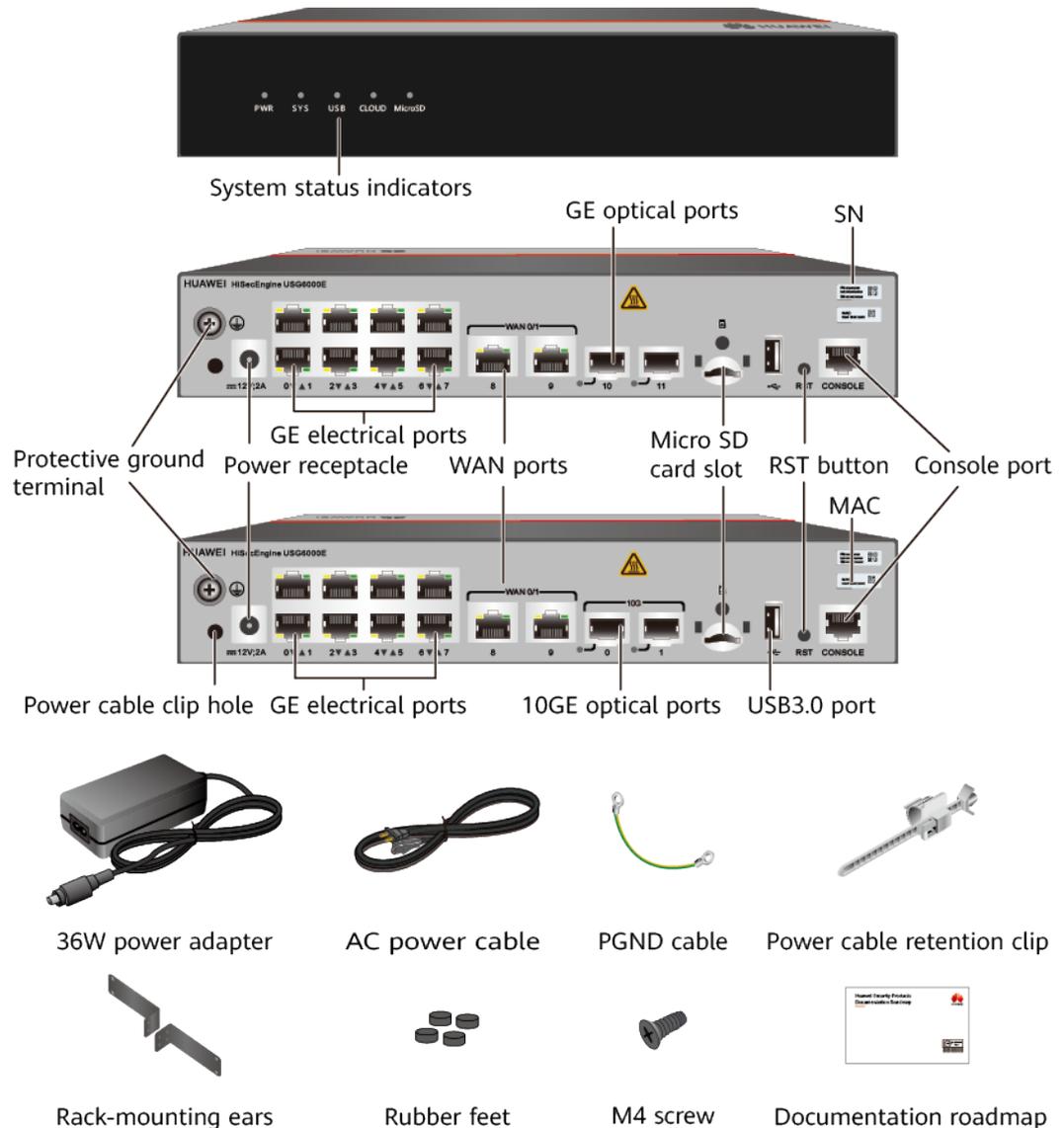
 NOTE

- 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.

2.1 USG6510E, USG6530E

Device and Auxiliary Materials

Figure 2-1 Appearance and auxiliary materials of the USG6510E, USG6530E



In the preceding figure, the USG6510E rear panel is on the center left and the USG6530E rear panel is on the lower left.

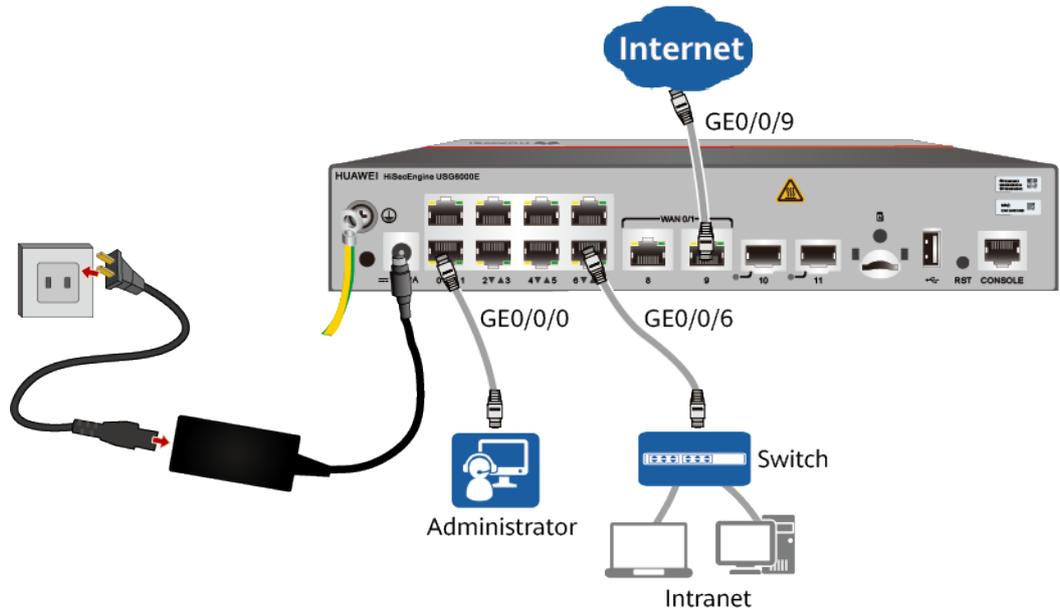
NOTE

- The mounting ears are optional.
- The power cable varies according to the delivery country.
- The standard USB port of the earlier-delivered models is USB 3.0, and that of the later-delivered models is USB 2.0. This document uses a model with a USB 2.0 port as an example.

Cable Connection

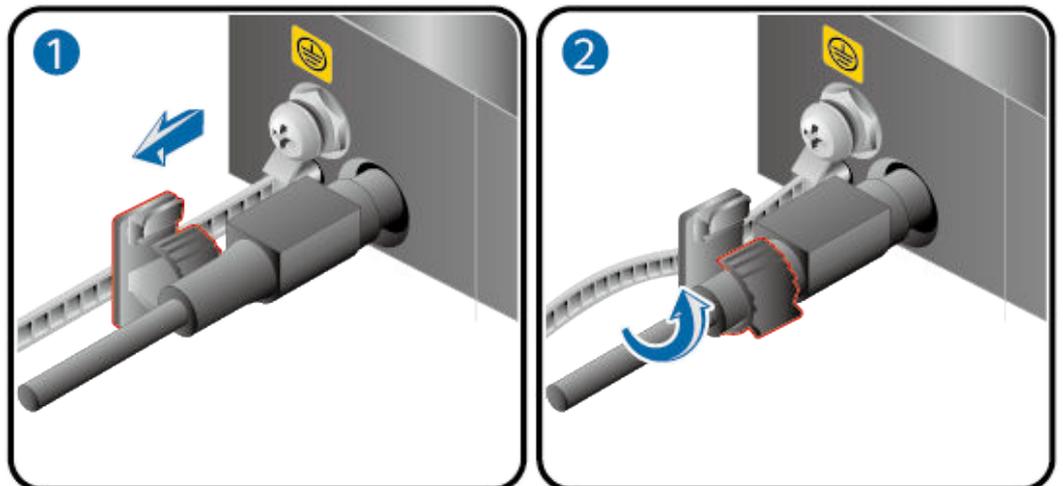
Connect cables according to **Figure 2-2** and power on the device. As device does not provide a power switch, it starts up immediately after receiving power. When the SYS indicator on the frontpanel is blinking (once every two seconds), the device is running and ready for configuration.

Figure 2-2 Connecting cables of USG6510E, USG6530E



NOTE

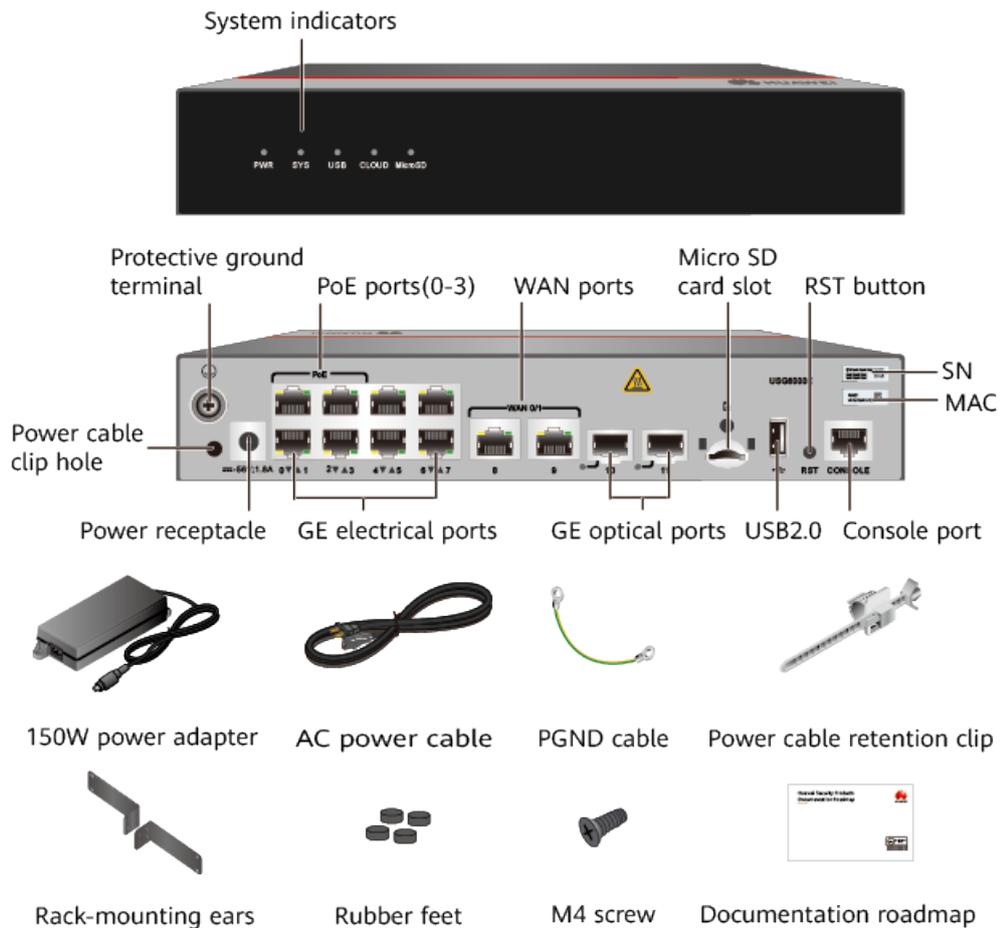
After the power cable is installed, adjust the cable-retention clip to an appropriate position, use a cable-retention clip to bundle the cable of the power adapter, and adjust the cable-retention clip to fasten the cable.



2.2 USG6510E-POE

Device and Auxiliary Materials

Figure 2-3 Appearance and auxiliary materials of the USG6510E-POE



NOTE

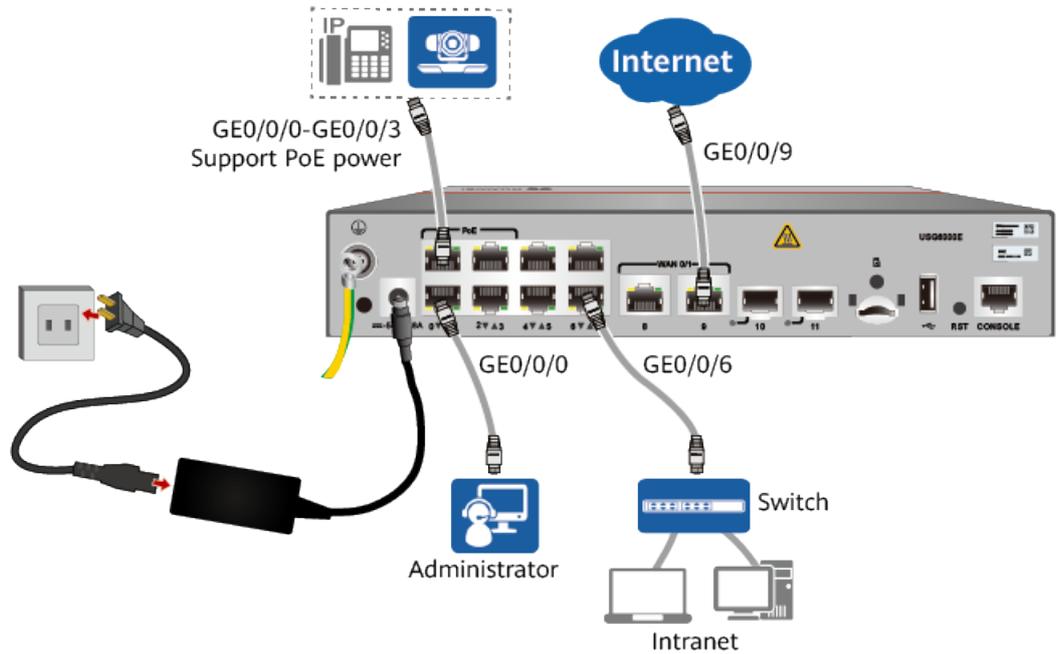
- The mounting ears are optional.
- The power cable varies according to the delivery country.

Cable Connection

Connect cables according to [Figure 2-4](#) 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 frontpanel is blinking (once every two seconds), the device is running and ready for configuration.

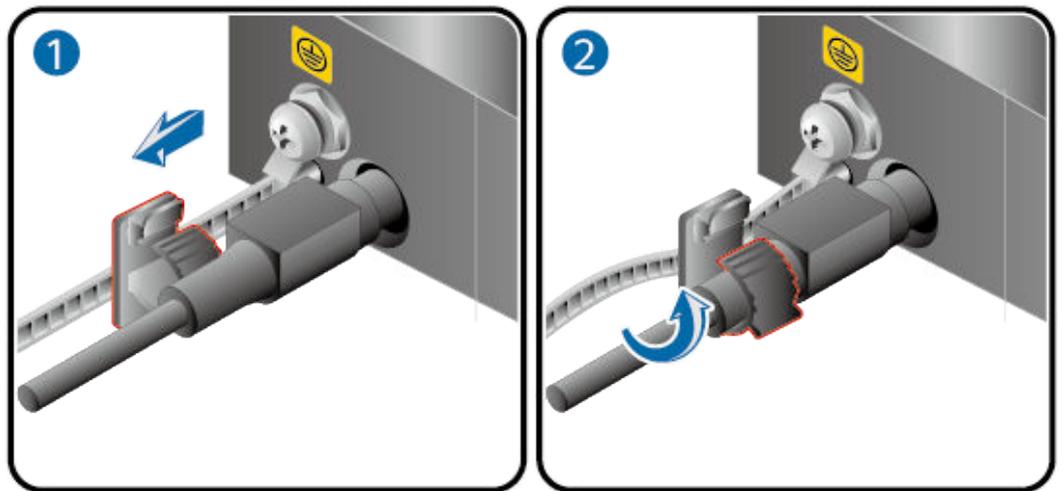
The PoE power supply device must be directly connected to the firewall through a network cable. For details about PoE power supply parameters, see the *Configuration Guide*.

Figure 2-4 Connecting cables of USG6510E-POE



NOTE

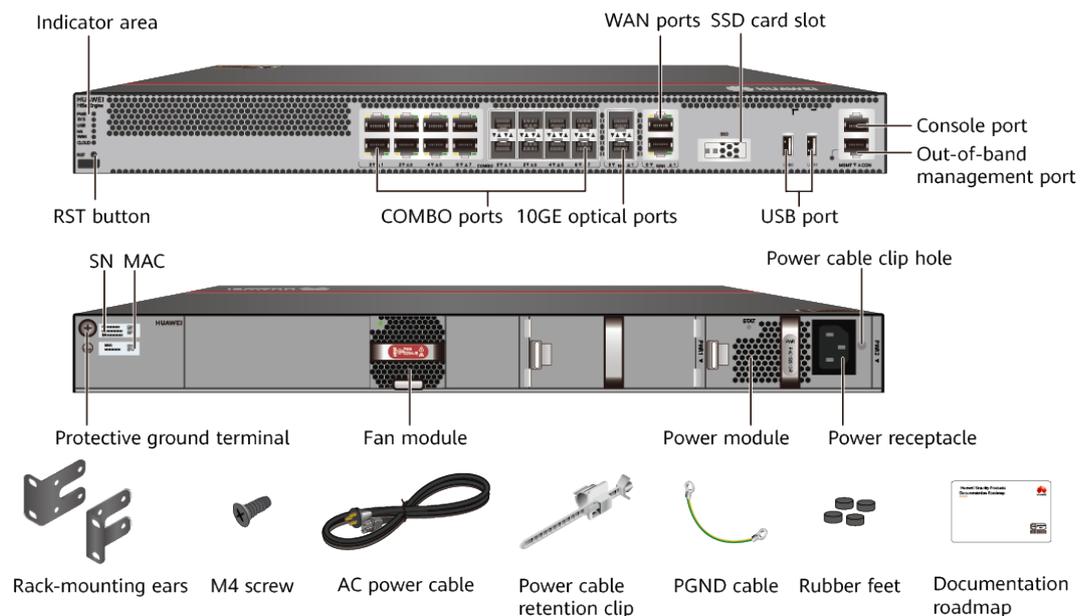
After the power cable is installed, adjust the cable-retention clip to an appropriate position, use a cable-retention clip to bundle the cable of the power adapter, and adjust the cable-retention clip to fasten the cable.



2.3 USG6525E, USG6555E, USG6565E, USG6585E

Device and Auxiliary Materials

Figure 2-5 Appearance and auxiliary materials of the USG6525E, USG6555E, USG6565E, USG6585E



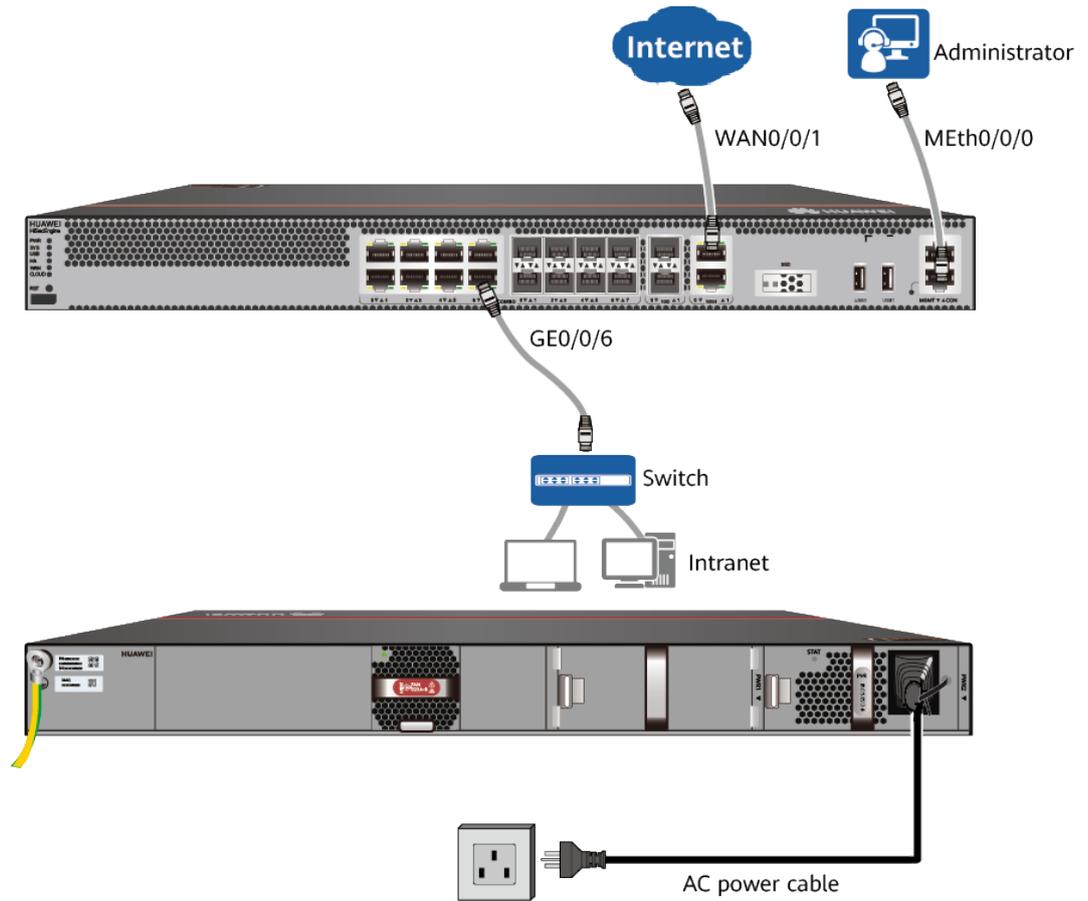
NOTE

- The power cable varies according to the delivery country.
- The two USB ports of earlier-delivered models are USB 3.0 and USB 2.0 respectively, whereas those of later-delivered models are both USB 2.0. In this document, later-delivered models are used as examples.

Cable Connection

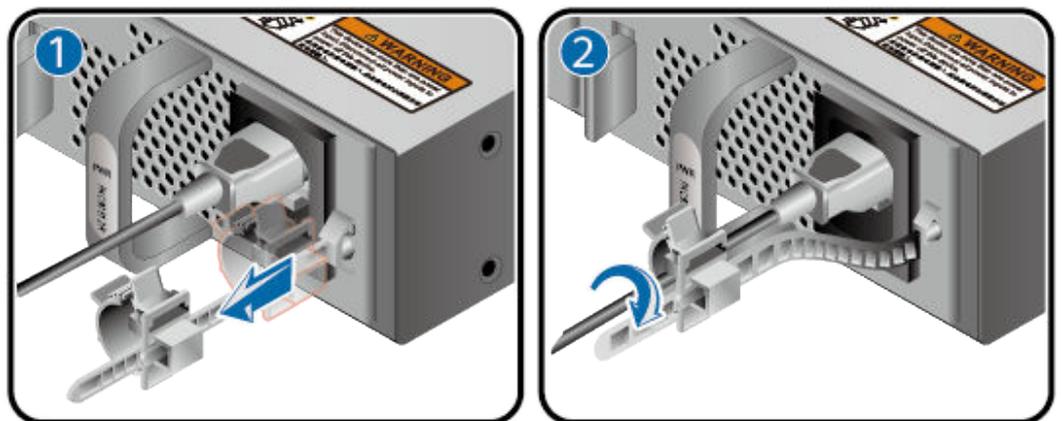
Connect cables according to [Figure 2-6](#) and power on the device. As device does not provide a power switch, it starts up immediately after receiving power. When the SYS indicator on the frontpanel is blinking (once every two seconds), the device is running and ready for configuration.

Figure 2-6 Connecting cables of USG6525E, USG6555E, USG6565E, USG6585E



NOTE

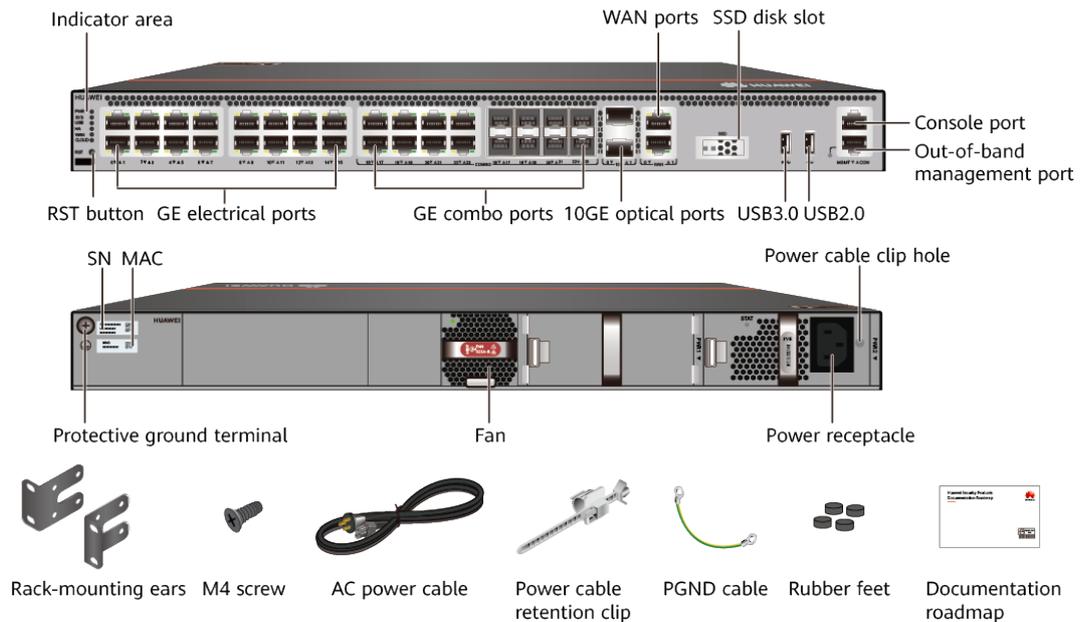
After the power cable is installed, adjust the cable-retention clip to an appropriate position, use a cable-retention clip to bundle the cable of the power adapter, and adjust the cable-retention clip to fasten the cable.



2.4 USG6515E, USG6550E, USG6560E, USG6580E

Device and Auxiliary Materials

Figure 2-7 Appearance and auxiliary materials of the USG6515E, USG6550E, USG6560E, USG6580E



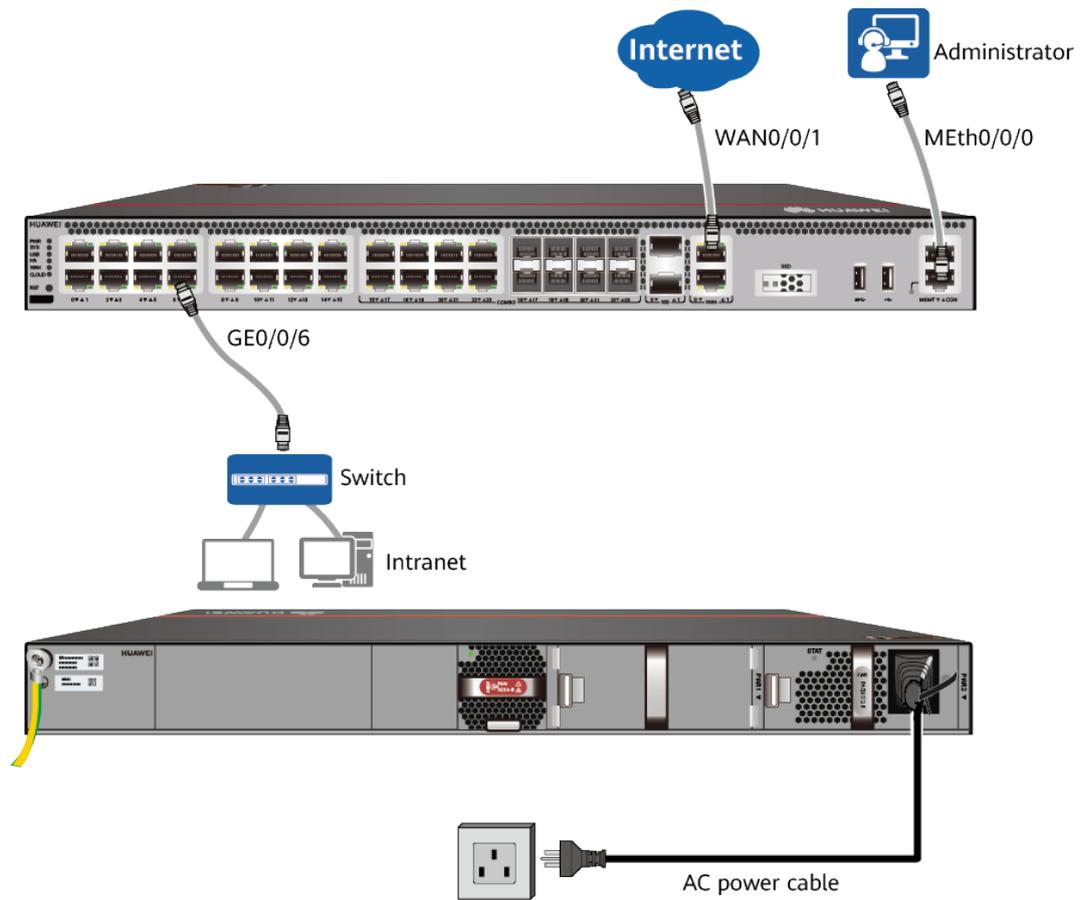
NOTE

The power cable varies according to the delivery country.

Cable Connection

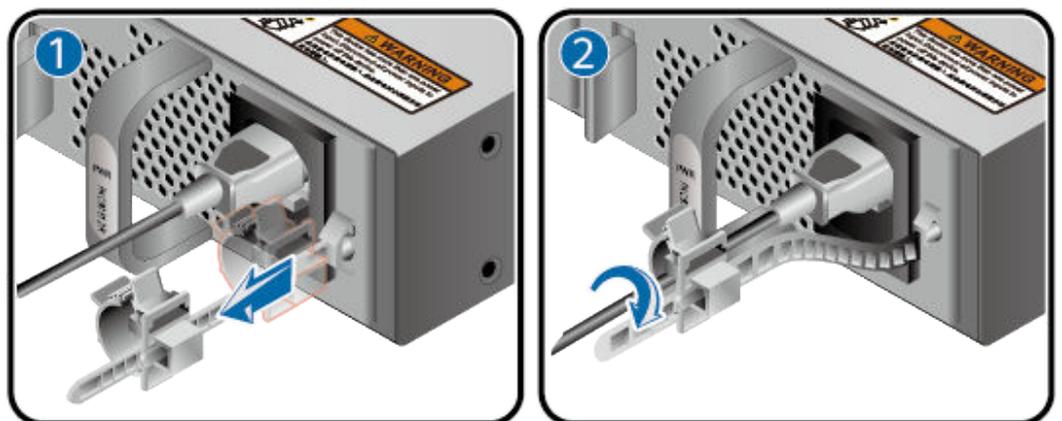
Connect cables according to [Figure 2-8](#) and power on the device. As device does not provide a power switch, it starts up immediately after receiving power. When the SYS indicator on the frontpanel is blinking (once every two seconds), the device is running and ready for configuration.

Figure 2-8 Connecting cables of USG6515E, USG6550E, USG6560E, USG6580E



NOTE

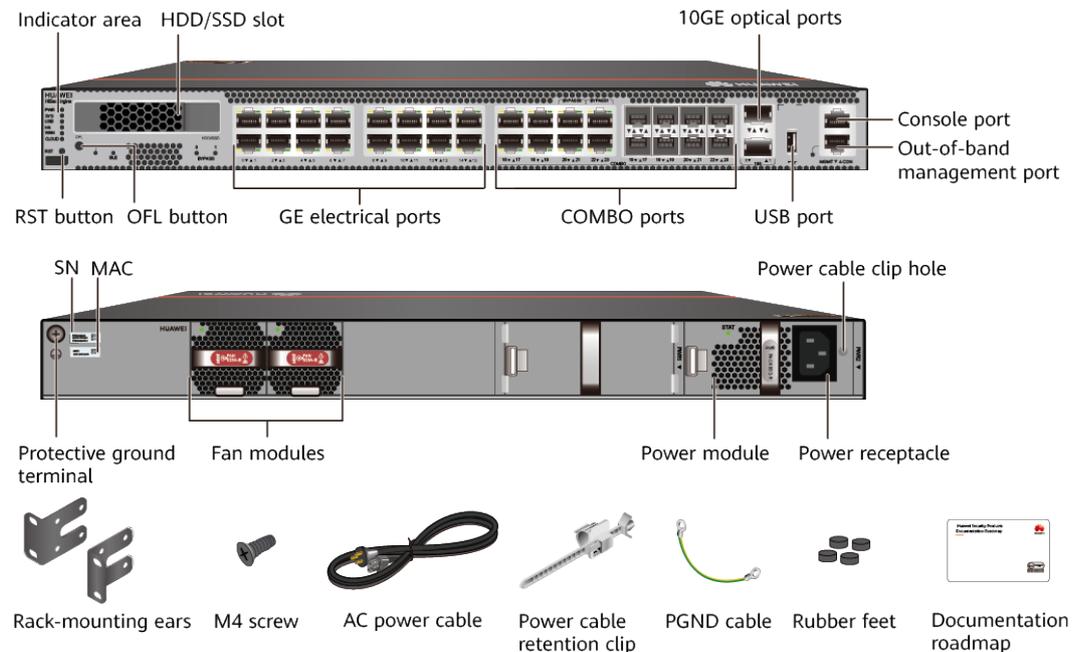
After the power cable is installed, adjust the cable-retention clip to an appropriate position, use a cable-retention clip to bundle the cable of the power adapter, and adjust the cable-retention clip to fasten the cable.



2.5 USG6575E-B, USG6605E-B

Device and Auxiliary Materials

Figure 2-9 Appearance and auxiliary materials of the USG6575E-B, USG6605E-B



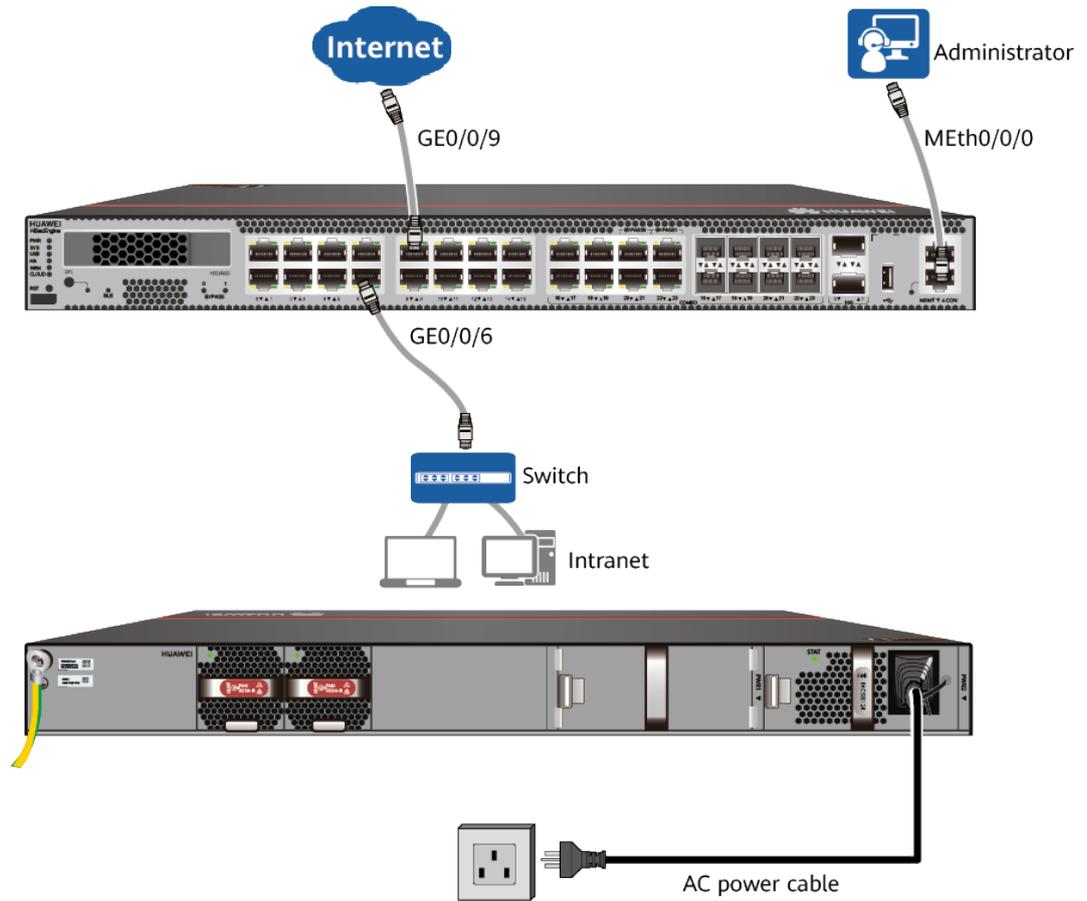
NOTE

- The power cable varies according to the delivery country.
- The standard USB port of the earlier-delivered models is USB 3.0, and that of the later-delivered models is USB 2.0. This document uses a model with a USB 2.0 port as an example.

Cable Connection

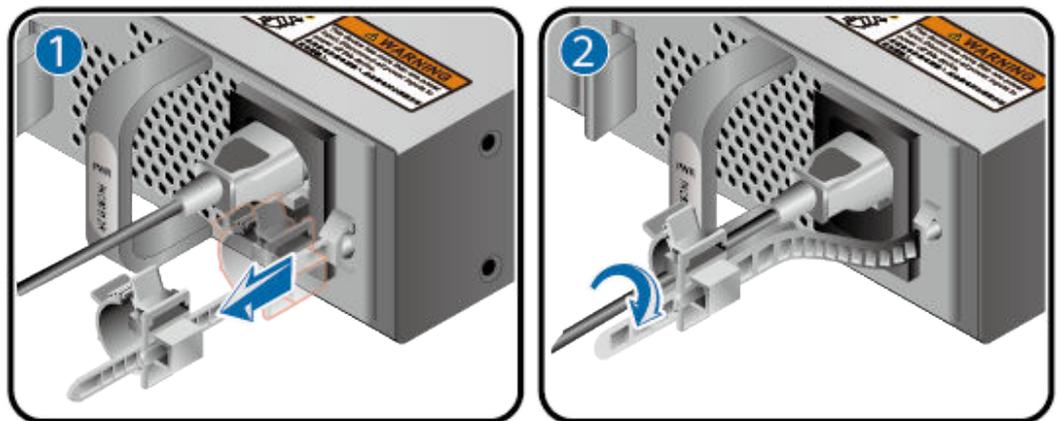
Connect cables according to [Figure 2-10](#) and power on the device. As device does not provide a power switch, it starts up immediately after receiving power. When the SYS indicator on the frontpanel is blinking (once every two seconds), the device is running and ready for configuration.

Figure 2-10 Connecting cables of USG6575E-B, USG6605E-B



NOTE

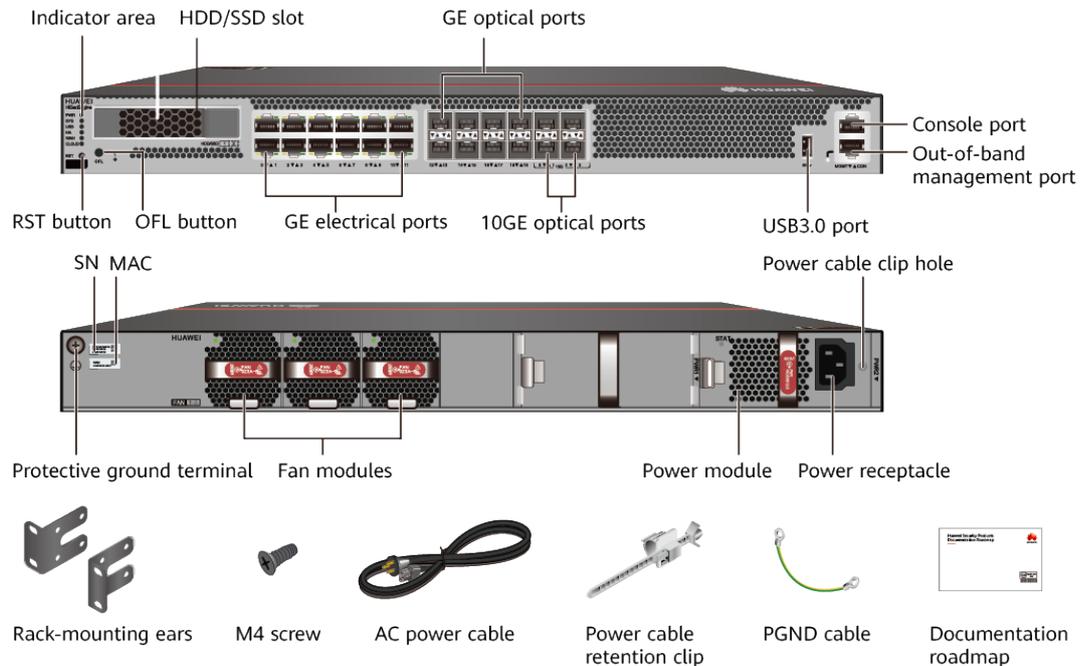
After the power cable is installed, adjust the cable-retention clip to an appropriate position, use a cable-retention clip to bundle the cable of the power adapter, and adjust the cable-retention clip to fasten the cable.



2.6 USG6610E, USG6620E

Device and Auxiliary Materials

Figure 2-11 Appearance and auxiliary materials of the USG6610E, USG6620E



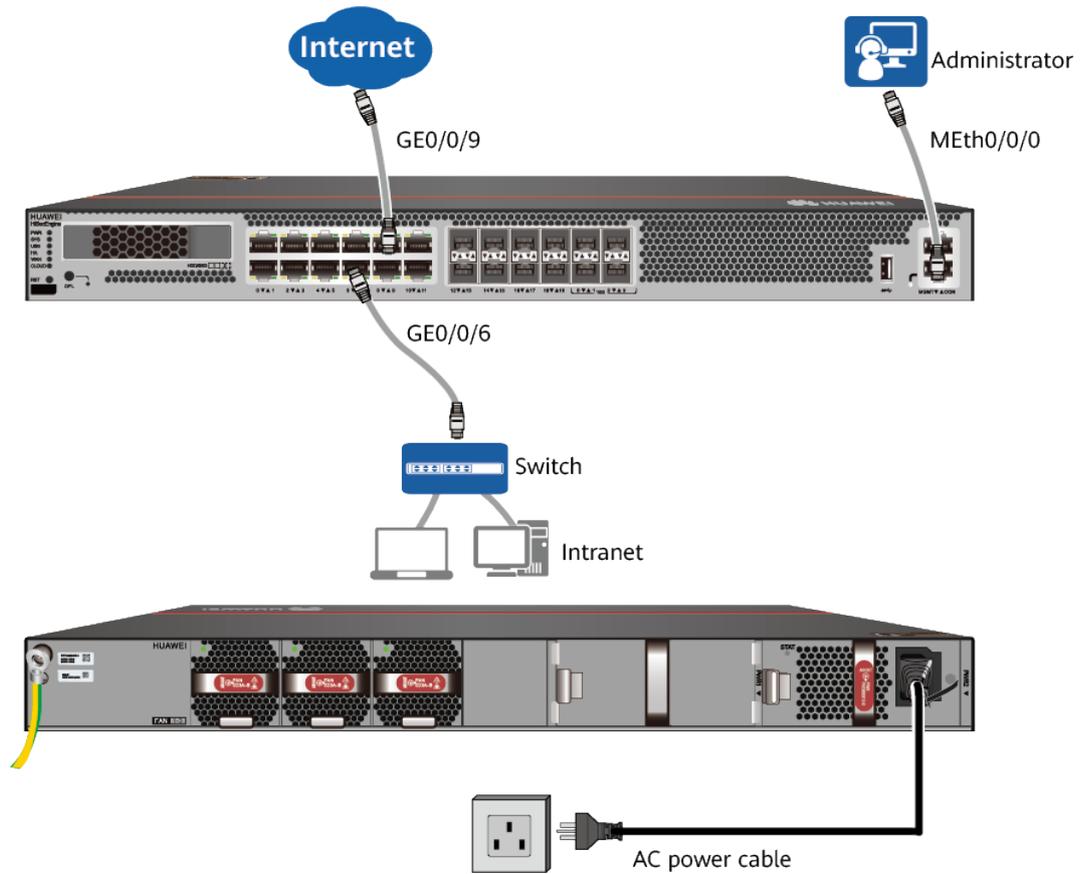
NOTE

- The power cable varies according to the delivery country.
- The model with the BOM number containing "-001" and "-002" have one more OFL indicator than the model with the BOM number not containing "-001" or "-002". The silkscreen of the device contains "HiSecEngine", and the distribution of heat dissipation holes on the front of one model slightly differ from that of another model. This document uses the model whose BOM number contains "-001" as an example.

Cable Connection

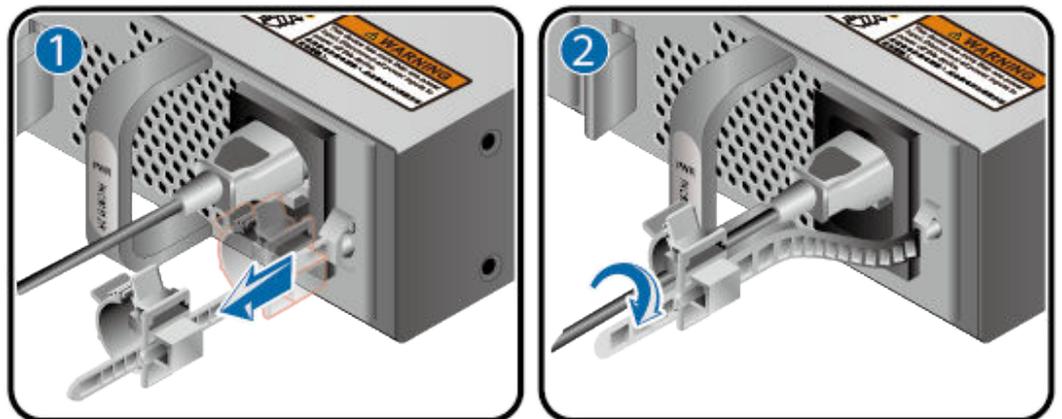
Connect cables according to [Figure 2-12](#) and power on the device. As device does not provide a power switch, it starts up immediately after receiving power. When the SYS indicator on the frontpanel is blinking (once every two seconds), the device is running and ready for configuration.

Figure 2-12 Connecting cables of USG6610E, USG6620E



NOTE

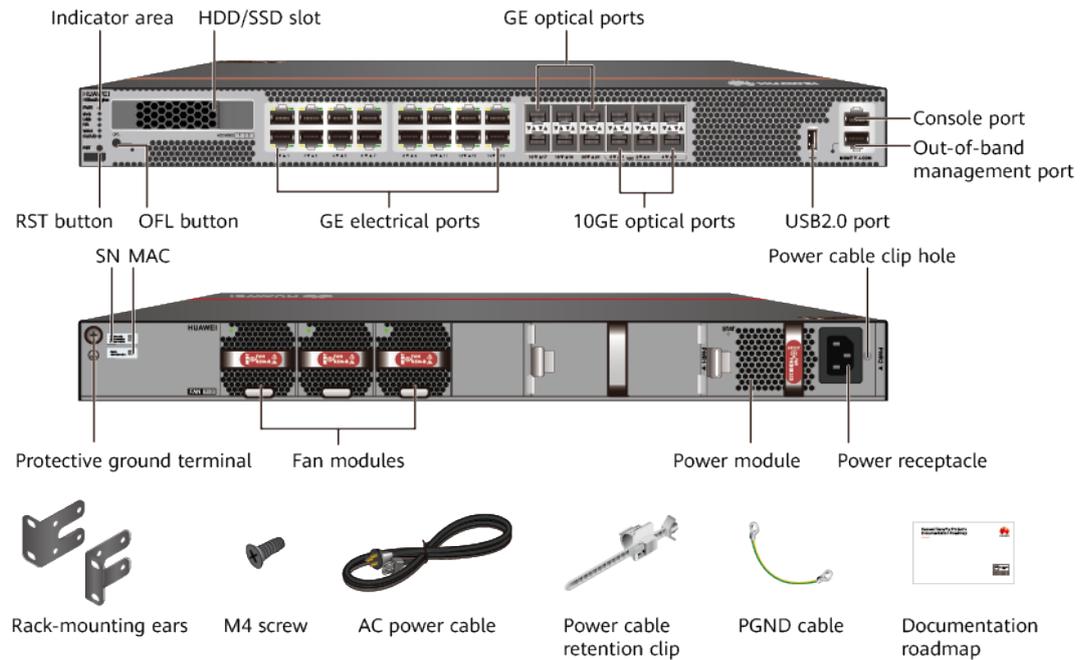
After the power cable is installed, adjust the cable-retention clip to an appropriate position, use a cable-retention clip to bundle the cable of the power adapter, and adjust the cable-retention clip to fasten the cable.



2.7 USG6615E, USG6620E-K, USG6625E

Device and Auxiliary Materials

Figure 2-13 Appearance and auxiliary materials of the USG6615E, USG6620E-K, USG6625E



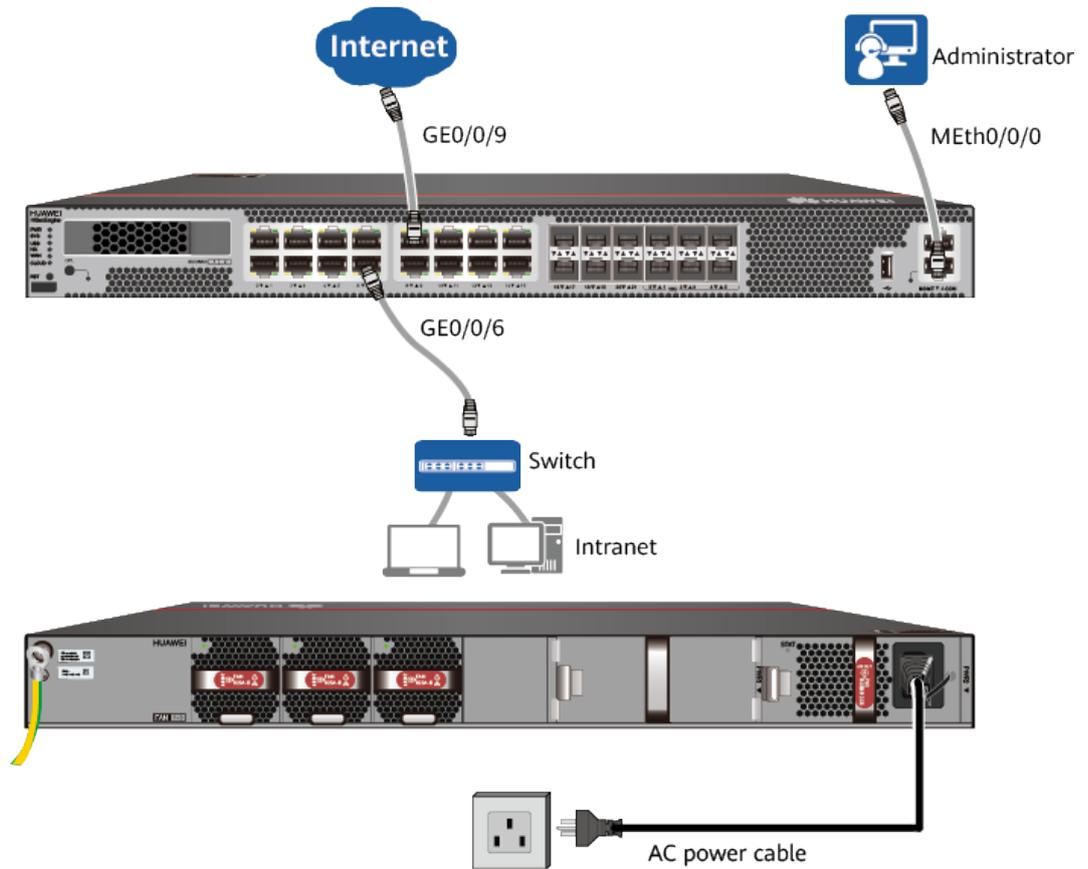
NOTE

The power cable varies according to the delivery country.

Cable Connection

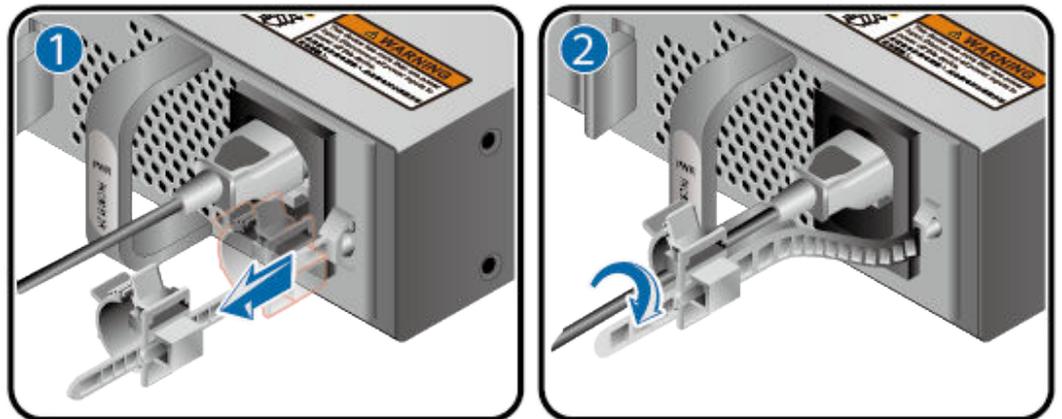
Connect cables according to [Figure 2-14](#) and power on the device. As device does not provide a power switch, it starts up immediately after receiving power. When the SYS indicator on the frontpanel is blinking (once every two seconds), the device is running and ready for configuration.

Figure 2-14 Connecting cables of USG6615E, USG6620E-K, USG6625E



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.

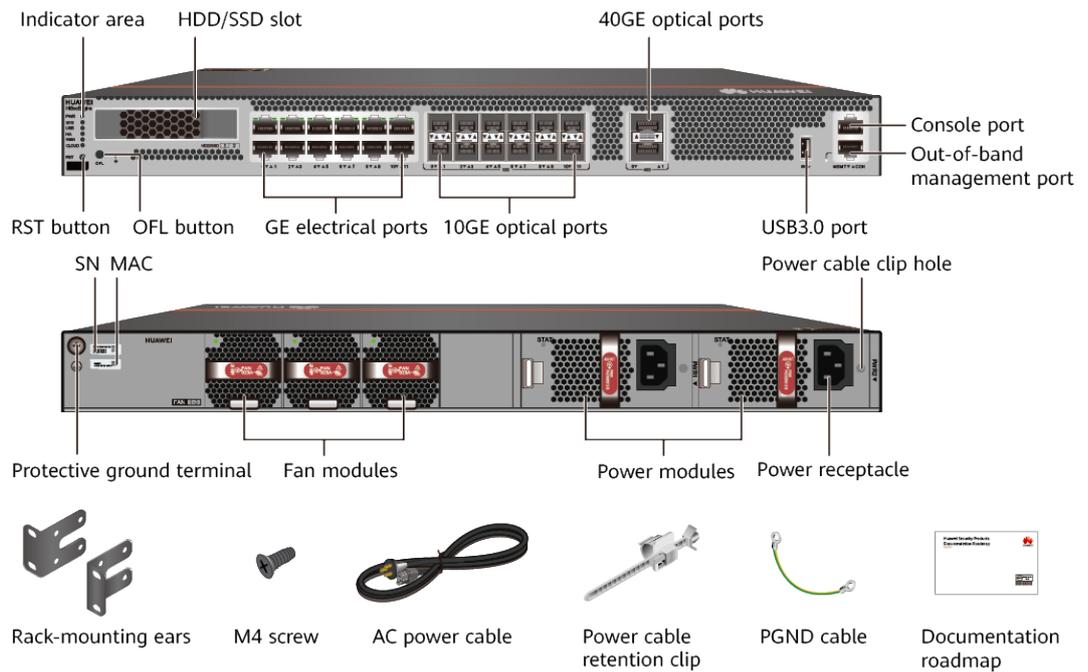


2.8 USG6630E, USG6650E

Device and Auxiliary Materials

In the preceding figure, the AC model is used as an example. The USG6630E AC and DC models differ only in the power supply mode.

Figure 2-15 Appearance and auxiliary materials of the USG6630E, USG6650E



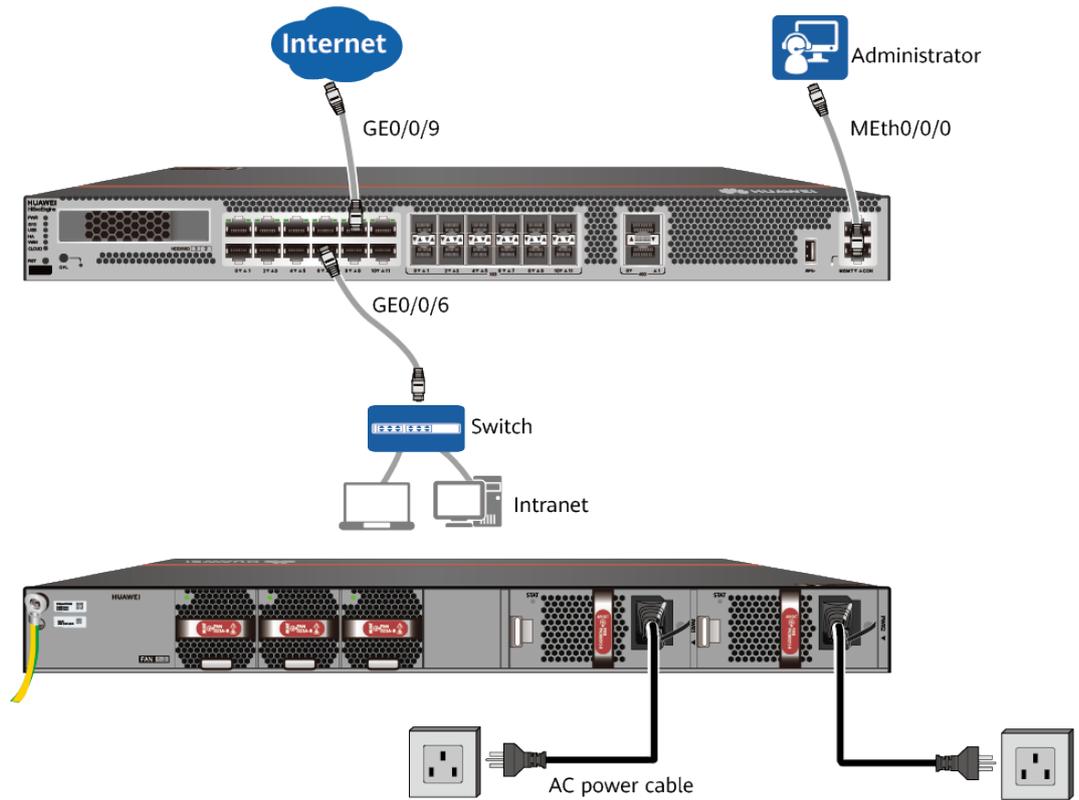
NOTE

- The power cable varies according to the delivery country.
- The model with the BOM number containing "-001" and "-002" have one more OFL indicator than the model with the BOM number not containing "-001" or "-002". The silkscreen of the device contains "HiSecEngine", and the distribution of heat dissipation holes on the front of one model slightly differ from that of another model. This document uses the model whose BOM number contains "-001" as an example.

Cable Connection

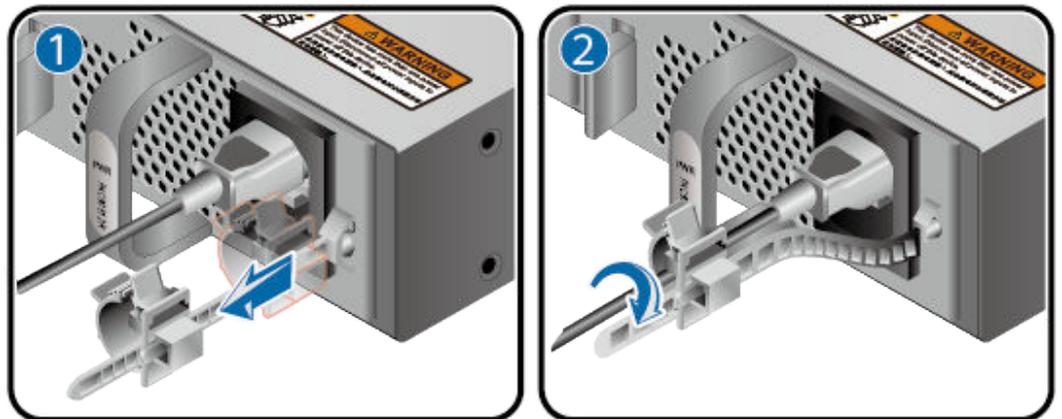
Connect cables according to [Figure 2-16](#) and power on the device. As device does not provide a power switch, it starts up immediately after receiving power. When the SYS indicator on the frontpanel is blinking (once every two seconds), the device is running and ready for configuration.

Figure 2-16 Connecting cables of USG6630E, USG6650E



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.

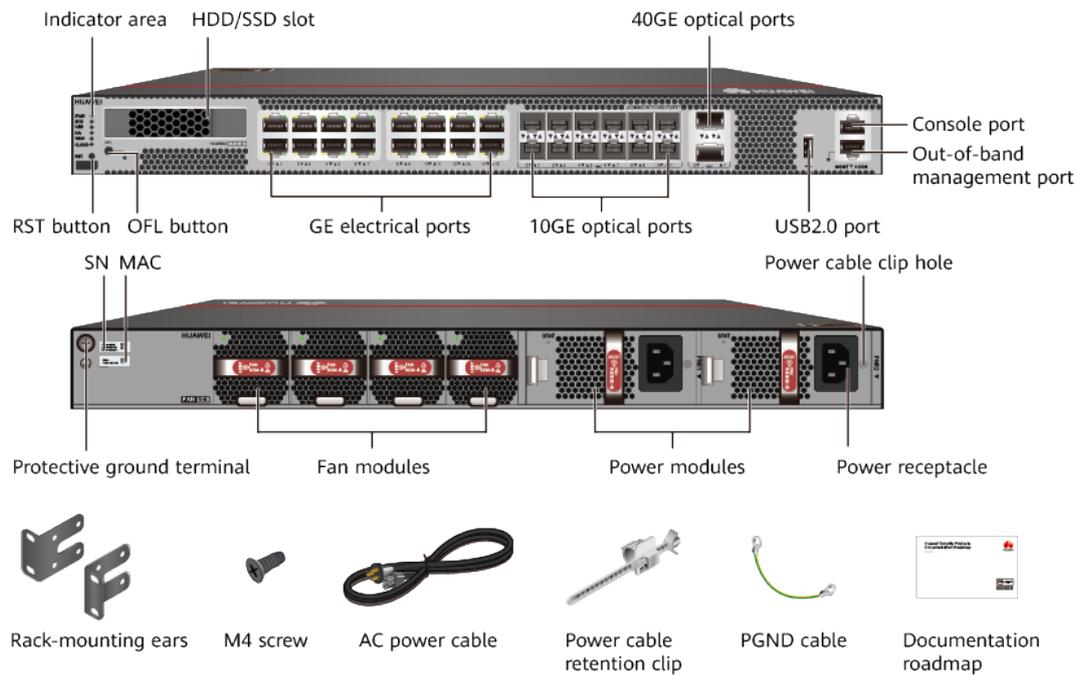


2.9 USG6635E, USG6640E-K, USG6655E

Device and Auxiliary Materials

In the preceding figure, the AC model is used as an example. The USG6635E AC and DC models differ only in the power supply mode.

Figure 2-17 Appearance and auxiliary materials of the USG6635E, USG6640E-K, USG6655E



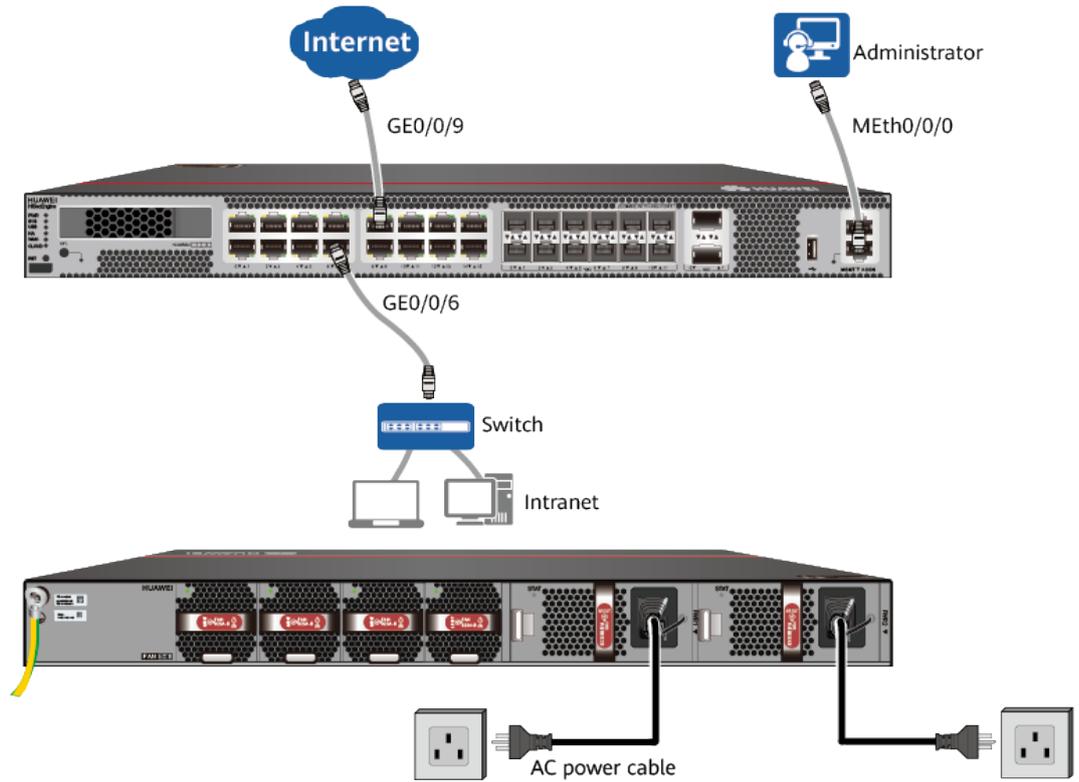
NOTE

- By default, 40GE optical interface 40GE0/0/1 is unavailable. To use it, run the **set device port-config-mode 40g-port enable** command to enable it. However, after that, 10GE optical interfaces numbered XGE0/0/8 to XGE0/0/11 become unavailable.
- The power cable varies according to the delivery country.

Cable Connection

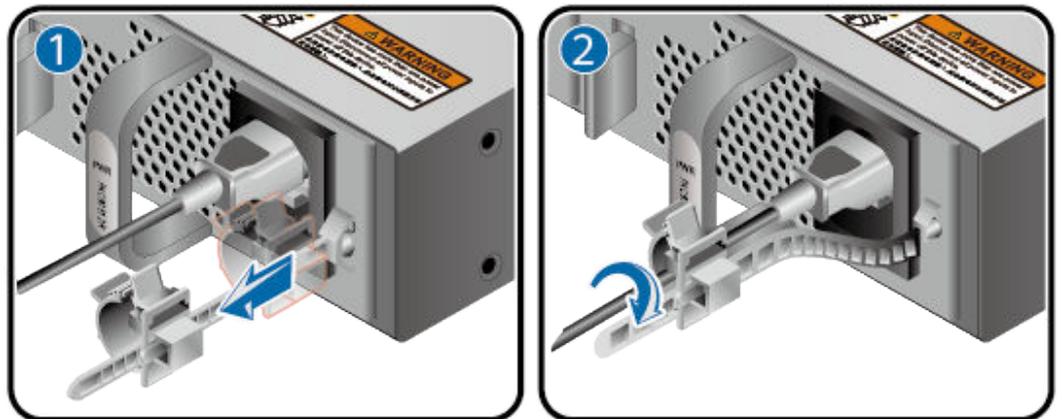
Connect cables according to **Figure 2-18** and power on the device. As device does not provide a power switch, it starts up immediately after receiving power. When the SYS indicator on the frontpanel is blinking (once every two seconds), the device is running and ready for configuration.

Figure 2-18 Connecting cables of USG6635E, USG6640E-K, USG6655E



NOTE

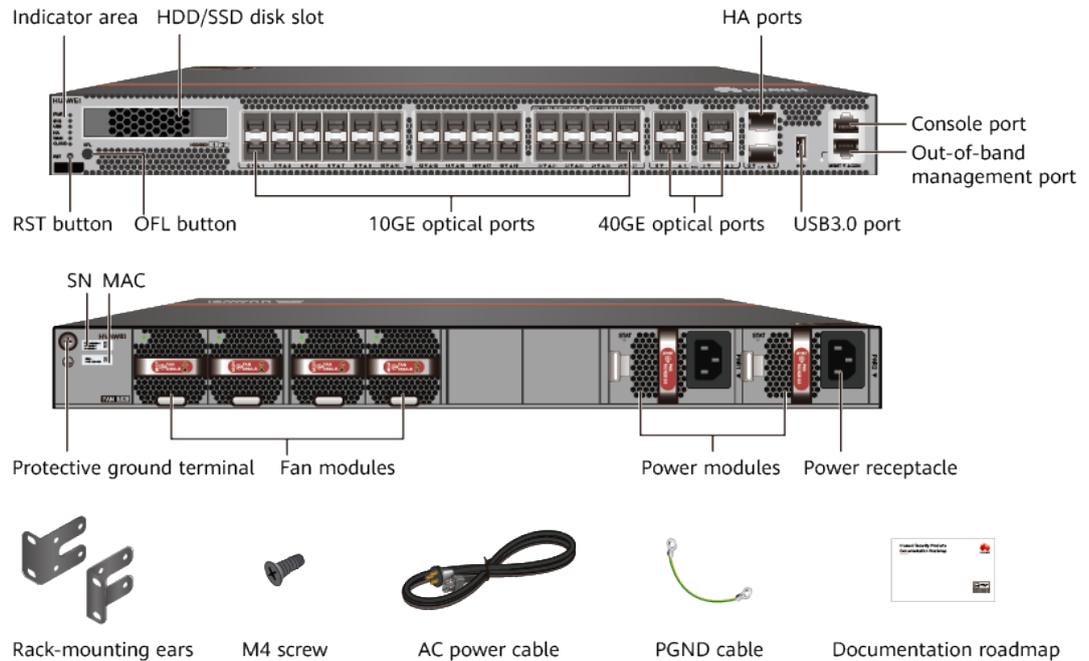
After the power cable is installed, adjust the cable-retention clip to an appropriate position, use a cable-retention clip to bundle the cable of the power adapter, and adjust the cable-retention clip to fasten the cable.



2.10 USG6680E

Device and Auxiliary Materials

Figure 2-19 Appearance and auxiliary materials of the USG6680E



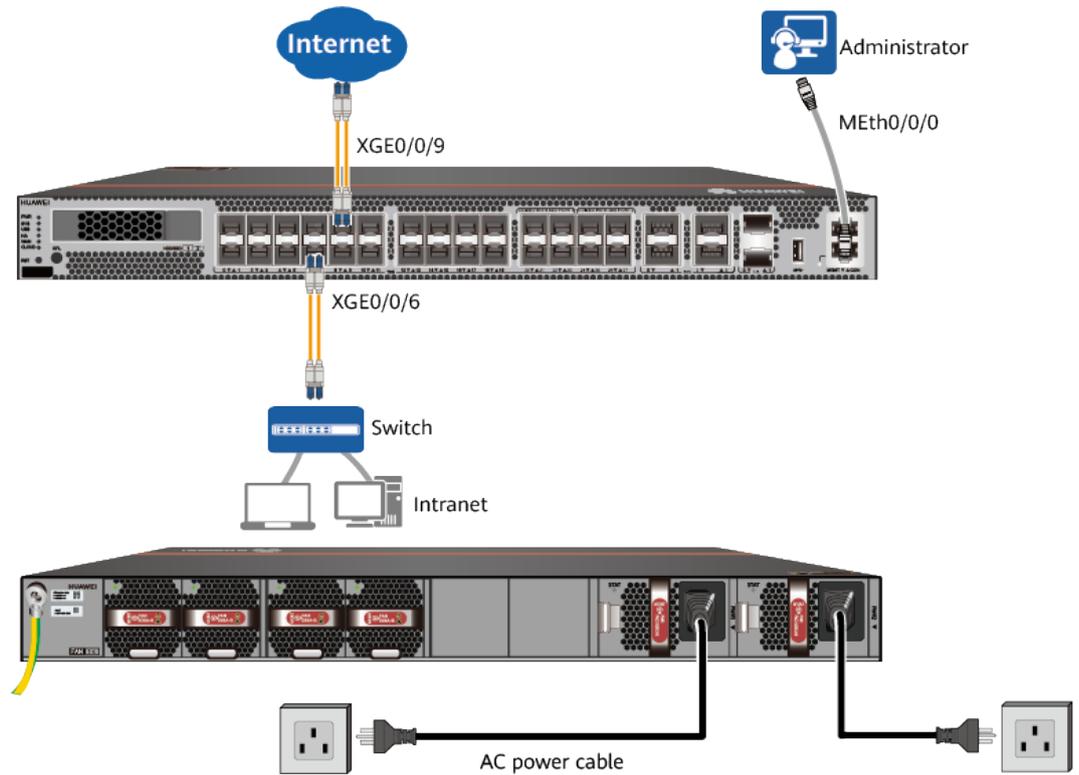
NOTE

- By default, 40GE optical interfaces 40GE0/0/2 and 40GE0/0/3 are unavailable. To use them, run the **set device port-config-mode 40g-port enable** command to enable them. However, after that, 10GE optical interfaces numbered XGE0/0/20 to XGE0/0/27 become unavailable.
- The power cable varies according to the delivery country.

Cable Connection

Connect cables according to [Figure 2-20](#) 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 frontpanel is blinking (once every two seconds), the device is running and ready for configuration.

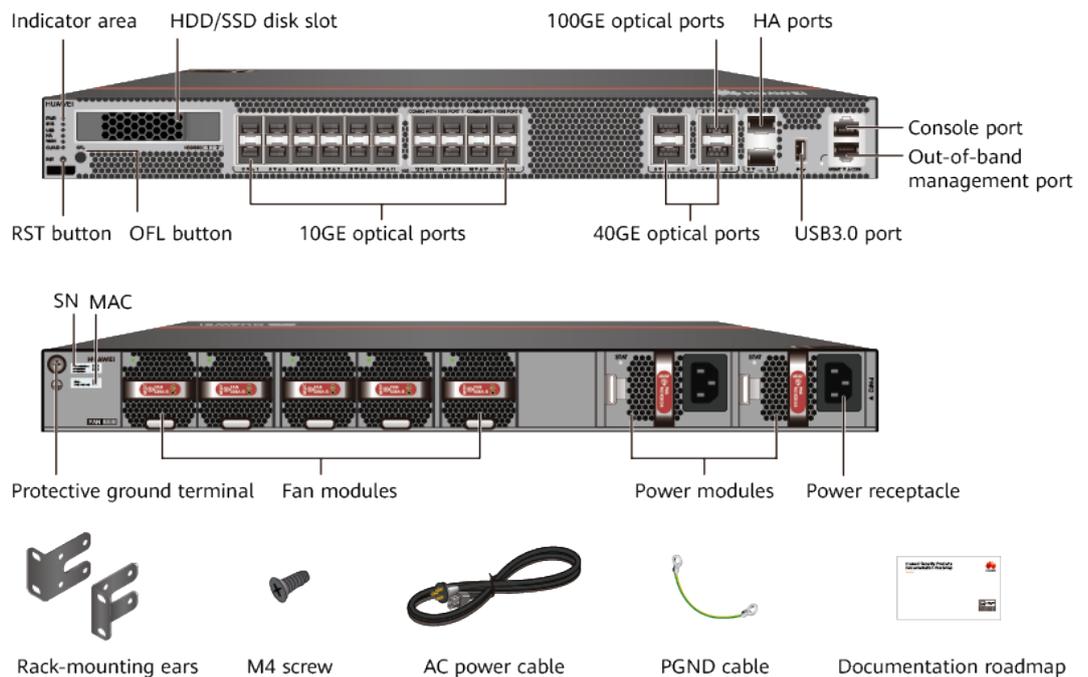
Figure 2-20 Connecting cables of USG6680E



2.11 USG6712E, USG6716E

Device and Auxiliary Materials

Figure 2-21 Appearance and auxiliary materials of the USG6712E, USG6716E

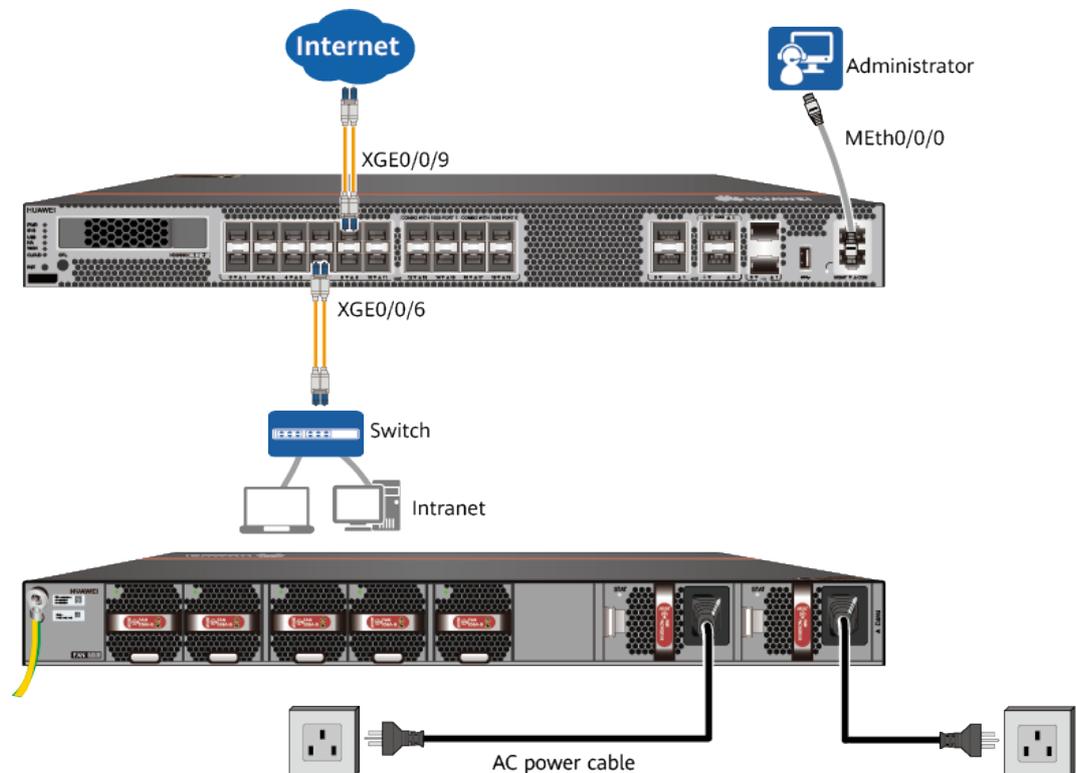


NOTE

- Four 40GE optical interfaces are provided by default. You can run the **set device port-config-mode 100g-port enable** command to switch 40GE0/0/2 and 40GE0/0/3 to 100GE optical interfaces. After that, their interface numbers are changed to 100GE0/0/0 and 100GE0/0/1. However, when 100GE optical interfaces are used, 10GE optical interfaces numbered XGE0/0/12 to XGE0/0/19 are unavailable.
- The power cable varies according to the delivery country.

Cable Connection

Connect cables according to **Figure 2-22** 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 frontpanel is blinking (once every two seconds), the device is running and ready for configuration.

Figure 2-22 Connecting cables of USG6712E, USG6716E

3 Accessing the Internet

Default configuration

The [Table 3-1](#) lists the default configuration.

Table 3-1 Default configuration

Item	Description
Management port	The IP address is 192.168.0.1.
Administrator account/password	<ul style="list-style-type: none"> Earlier than V600R007C20: the default username and password are available in <i>HUAWEI Security Products Default Usernames and Passwords</i>. V600R007C20 and later: no default account/password (Instead, registration is required upon your first login.)

Data Planning

Collect the information in the following table based on the WAN mode you use and the IP address plan for the LAN.

The underlined texts in the table are examples for reference only.

Item	Port	Description		
WAN	GE0/0/9	Static IP	IP Address: <u>1.1.1.1</u>	Request your ISP or network administrator to provide the data.
			Subnet Mask: <u>255.255.255.0</u>	
			Default Gateway: <u>1.1.1.254</u>	
			Primary DNS: <u>2.2.2.2</u>	

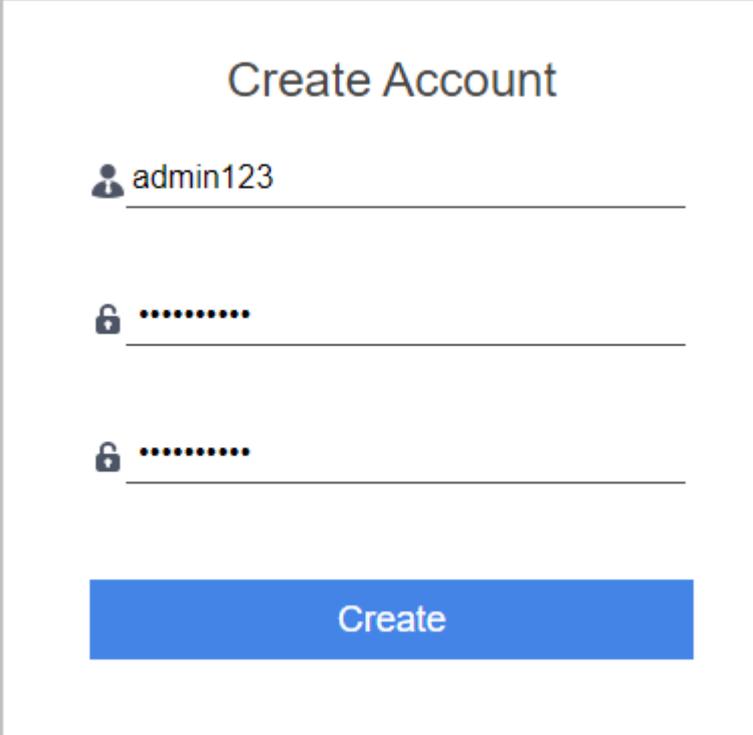
Item	Port	Description		
			(Optional) Secondary DNS: <u>2.2.3.3</u>	
		PPPoE	User name/Password: <u>user/Password123</u>	
		DHCP	-	The device functions as a DHCP client.
LAN	GE0/0/6	IP Address: <u>10.0.0.1</u>		The LAN IP address range shall be pre-determined.
		Subnet Mask: <u>255.255.255.0</u>		
		IP address assigned by the DHCP Server: <u>10.0.0.1-10.0.0.254</u>		

Procedure

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.
2. Open a web browser and navigate to **https://192.168.0.1:8443** .
3. Log in to the web management page of the device.
 - Earlier than V600R007C20: Enter user name and password, and click **Login**. Change the password as prompted upon your first login.

NOTE

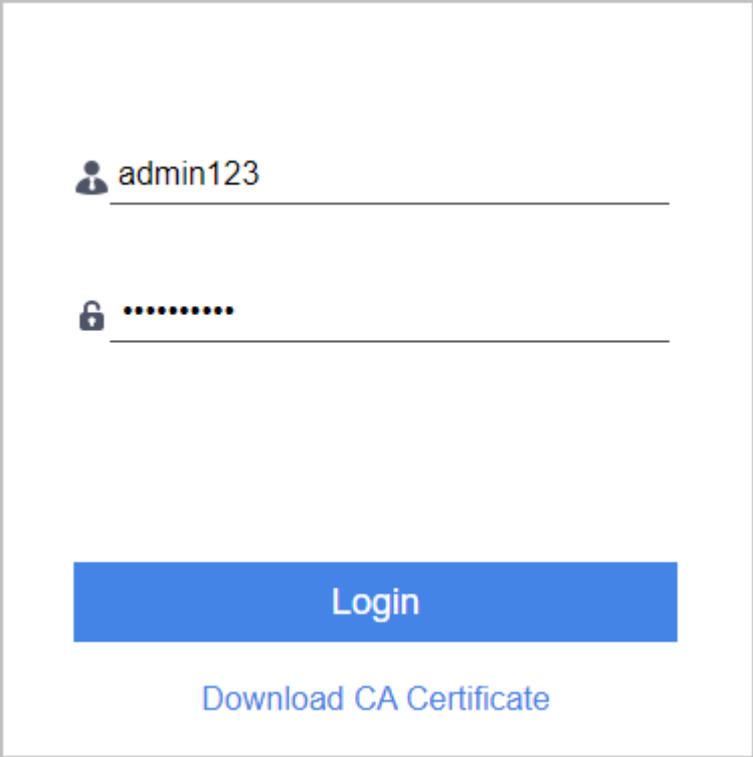
- The default username and password are available in *HUAWEI Security Products Default Usernames and Passwords*. If you have not obtained the access permission of the document, see Help on the website to find out how to obtain it.
- V600R007C20 and later: Register an administrator account as prompted. Enter the registered user name and password, and click **Login**.



Create Account

Create

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**.
5. On the login page, enter the registered user name and password, and click **Login**.



Login

[Download CA Certificate](#)

6. In the **Startup Wizard** page that is displayed, click **Next** to access the **Basic Configuration** page. Change the host name and click **Next**.

 **NOTE**

If the **Startup Wizard** page is not displayed, click the **System** tab and choose **Startup Wizard** in the navigation tree.

7. In the **Time Settings** step, configure the system clock of the device according to your local time zone, and click **Next**.
8. In the **WAN Settings** step, set the parameters and click **Next**.

WAN Settings -- Static IP

Set the following parameters to connect to the Internet.
Contact your ISP to obtain this information.

Interface	<input type="text" value="GE0/0/9"/>	*
IP Address	<input type="text" value="1.1.1.1"/>	*
Subnet Mask	<input type="text" value="255.255.255.0"/>	*
Default Gateway	<input type="text" value="1.1.1.254"/>	*
Primary DNS Server	<input type="text" value="2.2.2.2"/>	*
Secondary DNS Server	<input type="text" value="2.2.2.3"/>	

WAN Settings -- DHCP

The device will automatically attempt to obtain an IP address from the WAN Interface.

Interface	<input type="text" value="GE0/0/9"/>	*
-----------	--------------------------------------	---

WAN Settings -- PPPoE

Enter the PPPoE account information provided by your ISP or network administrator.

Interface *

User Name

Password

It is recommended that passwords contain at least three of the following character types: uppercase letters, lowercase letters, digits, and special characters.

Online Mode Always online Idle timeout * <1-65535>

Obtain IP Address Automatically

Specify IP Address

IP Address *

9. In the **LAN Settings** step, set the parameters and click **Next**.

LAN Settings

Enter your LAN interface information.

You are advised to use a private network address, such as 10.0.0.1 or 192.168.0.1. The default values are appropriate for most networks.

Interface *

IP Address *

Subnet Mask *

10. (Optional) In the **LAN DHCP Settings** step, set the parameters and click **Next**.

LAN DHCP Settings

Enable DHCP Server on LAN

Enter the IP address range assigned to devices on the LAN.

Start IP Address *

End IP Address *

11. In the **Check Configuration Information** step, confirm the previous settings and click **Apply**.

12. Click **Finish** to complete Internet access configurations.
13. After the quick wizard configuration is complete, choose **Policy > Security Policy** from the main menu, and configure a security policy that allows LAN users to access the Internet. Then, the service access can be performed. For other settings, refer to the *Configuration Guide*.

4 Appendix

4.1 Activating Licenses

More functions of the device will be available after a license is activated. Activate a license as follows:

1. Click the **System** tab on the web UI, and choose **License Management** from the navigation tree.
2. On the **License Management** page, click **Browse** to select the license file on the local PC.
3. Click **Activate** to activate the license.

4.2 Supplier's Declaration of Conformity (SDoC)

Unique Identifier: trade name: HUAWEI; product name: Firewall; model number: USG6000E

Responsible Party- U.S. Contact Information

Huawei Technologies USA Inc. 5700 Tennyson Parkway, Suite 500

Plano, Texas 75024

Main: 214-919-6000 / TAC Hotline: 877-448-2934

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.

4.3 Obtaining Product Documents and Technical Support

- Log in to <https://support.huawei.com/enrobot> to ask questions online.
- Log in to <https://support.huawei.com/enterprise> and select a specific product model and version to find its documentation.
- Log in to the Info-Finder website (<https://support.huawei.com/enterprise/en/info-finder/security>) and 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>.