



Chassis Switch

Quick Start Guide

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Applicable Models

This manual is applicable to the DS-3E6603-HI chassis switch.

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

DS-3E6603-HI is a full managed chassis switch designed for campus and enterprise converged service networks. Built on next-generation hardware and a self-developed software platform, it delivers wire-speed switching with integrated IP routing and network security capabilities. Featuring an energy-efficient architecture for lower power consumption, the switch supports multiple management methods, including command-line interface (CLI), web, iVMS-4200 client, and Unified Network Management Platform (UNMP). Ideal for medium- to large-scale surveillance, device, and campus networking applications, it offers a reliable, and feature-rich Ethernet switching solution.

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
Chassis	× 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.	
ESD Wrist Strap	× 1
Fiber Spool Bracket Kit	× 6
 Note A fiber spool bracket kit contains one fiber spool bracket and one screw.	
Fiber Connector Insertion/Extraction Tool	× 1

Quick Start Guide	× 1
Regulatory Compliance and Safety Information	× 1

Note

- The fan module is pre-installed at the factory, while the power supply units (PSUs) and interface modules are optional and must be purchased separately. (Each PSU includes a power cable.)
- The cabinet and other installation tools are not included and must be provided by the user.

1.3 Appearance

The chassis switch consists of a 3-slot chassis, interface modules, PSUs, and a fan module.

- Interface module: The chassis provides three interface module slots. Slot 1 supports both system control and service forwarding functions, while slots 2 and 3 are dedicated to service forwarding. Suitable interface modules can be installed based on actual requirements. Note that an interface module must be installed in slot 1 for the system to operate properly.
- PSU: The chassis includes two PSU slots supporting a 1+1 redundant power configuration. It is recommended to install two PSUs to ensure optimal system reliability.
- Fan module: A fan module is pre-installed at the rear of the chassis to provide efficient cooling for the device.

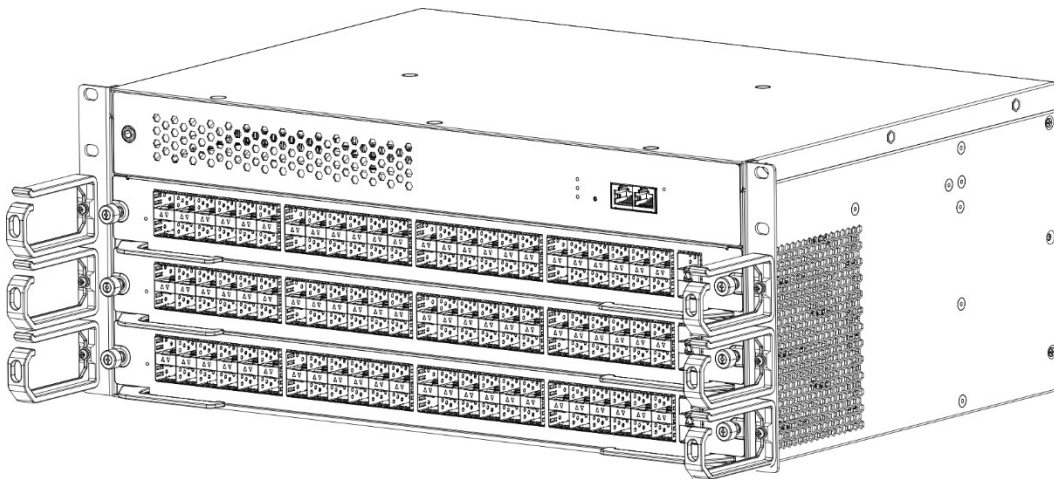


Figure 1-1 Appearance of Chassis Switch

Note

The chassis includes one pre-installed fan module. Interface modules and PSUs are optional and must be purchased separately.

1.3.1 Front Panel

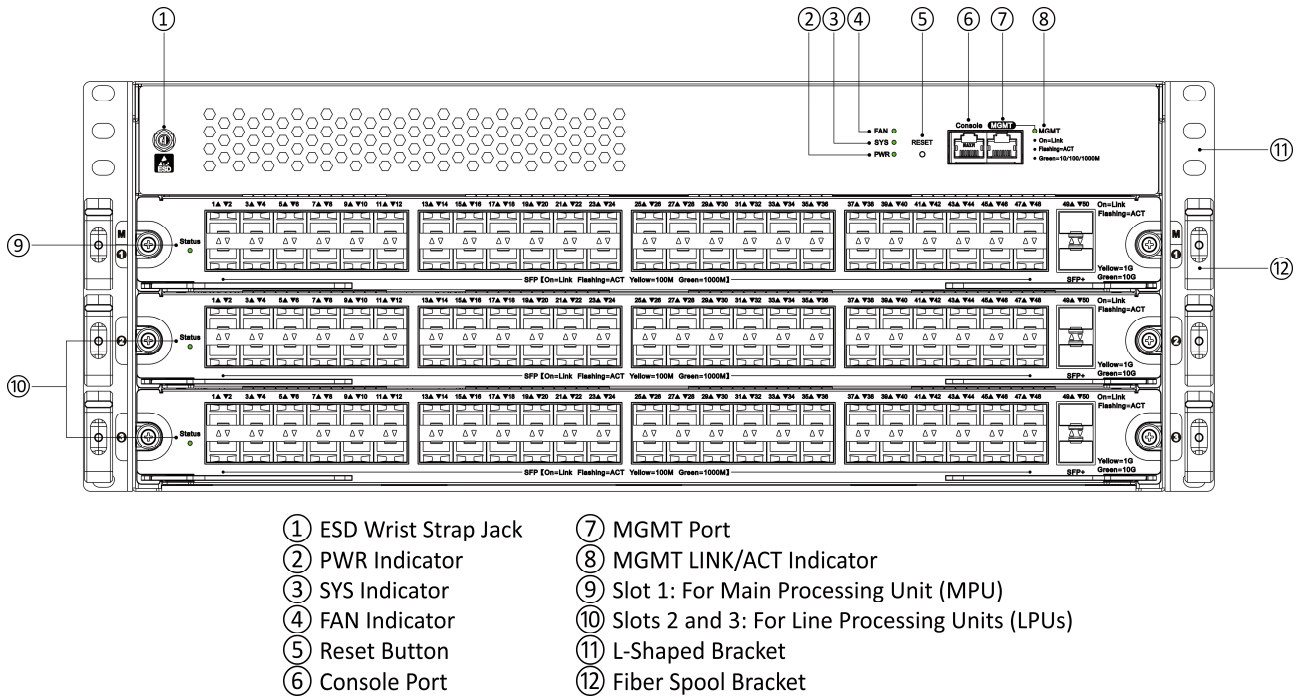


Figure 1-2 Front Panel

1.3.2 Rear Panel

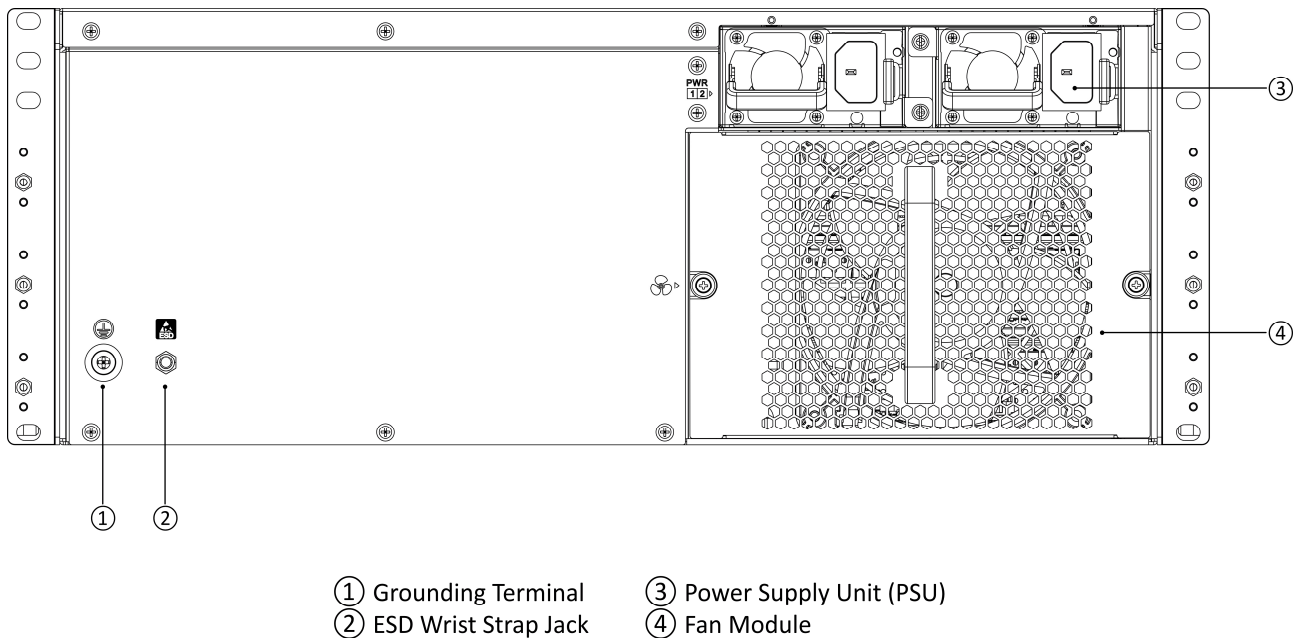


Figure 1-3 Rear Panel

1.4 Indicators, Ports, and Buttons

1.4.1 Indicators

Check the status of the chassis switch via indicators.

Table 1-2 Indicator Description

Indicator	Status	Description
PWR Indicator	Solid Green	The device is powered on with dual PSUs and the power supply is normal.
	Solid Yellow	The device is powered on with a single PSU and the power supply is normal.
	Solid Red	The power supply is abnormal
	Unlit	No power supply is connected.
SYS Indicator	Solid Green	The device started normally.
	Flashing Green	The device system is undergoing a power-on self-test.
	Solid Red	The power-on self-test failed, or the device is abnormal.
	Unlit	The device is powered off.
FAN Indicator	Solid Green	The fan module is operating normally.
	Solid Red	The fan module 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.

1.4.2 Ports and Buttons

Console Port

Used for local configuration and debugging.

MGMT Port

Used for remote device management.

Reset Button

- Short press (< 2 s): Restarts all modules.
- Press and hold (2-5 s): No configuration changes and no restart operation.
- Long press (> 5 s): Restarts all modules and restores the device to its factory default settings.



Note

Long-pressing the Reset button will back up the device configuration and restart the device without loading it. After the restart, users can choose to restore or delete the backup configuration through the web management interface or CLI.

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**.

PSU

Hot-swappable AC power input with flexible single or dual PSU configuration. The optional 1+1 redundant setup (with two PSUs) can significantly enhance system stability and reliability.

Fan Module

Hot-swappable exhaust fan for efficient device cooling.



Caution

Do not forcibly remove the fan module. Always use the dedicated extraction handle to avoid damaging the module or chassis components, which could result in the module becoming stuck and irremovable.

1.5 Optional Modules

1.5.1 PSU

PWR550A Series

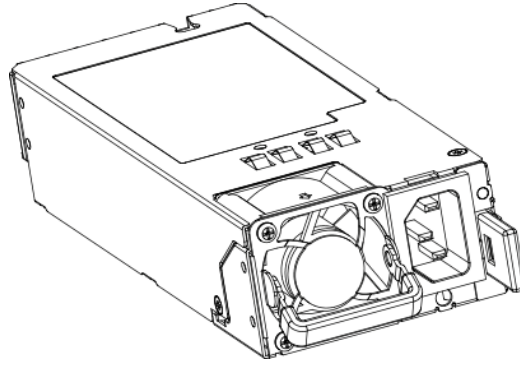


Figure 1-4 PWR550A Series

The PWR550A series hot-swappable PSU supplies AC power to the chassis switch via an included AC power cable, which connects the module's 3-pin inlet to a power outlet.



Note

Install the cable retention clip to prevent the power cable from loosening or disconnecting.

1.5.2 Interface Module



Note

Any interface module can be installed in slot 1 to serve as the main processing unit (MPU).

16X-SA Series

The 16X-SA series interface module provides sixteen 10 Gigabit SFP+ fiber optical ports. The 10 Gigabit SFP+ fiber optical ports support both 10 Gigabit SFP+ and 1 Gigabit SFP optical modules and are hot-swappable.

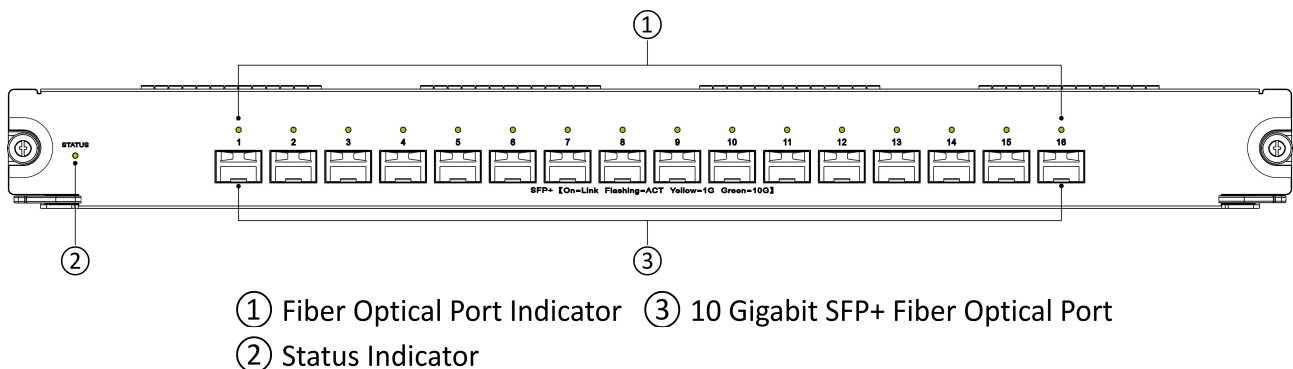


Figure 1-5 16X-SA Series

24T2X-SA Series

The 24T2X-SA series interface module provides twenty-four 10/100/1000 Mbps RJ45 ports and two 10 Gigabit SFP+ fiber optical ports. The 10 Gigabit SFP+ fiber optical ports support both 10 Gigabit SFP+ and 1 Gigabit SFP optical modules and are hot-swappable.

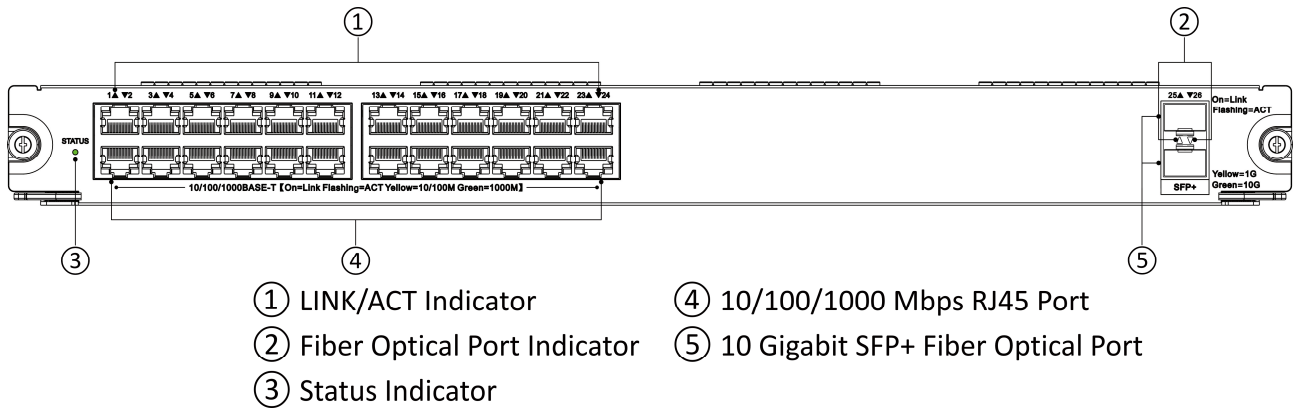


Figure 1-6 24T2X-SA Series

24F2X-SA Series

The 24F2X-SA series interface module provides twenty-four Gigabit SFP fiber optical ports and two 10 Gigabit SFP+ fiber optical ports. The Gigabit SFP fiber optical ports support 1 Gbps/100 Mbps auto-negotiation and are hot-swappable, while the 10 Gigabit SFP+ fiber optical ports are compatible with both 10 Gigabit SFP+ and 1 Gigabit SFP optical modules and also support hot swapping.

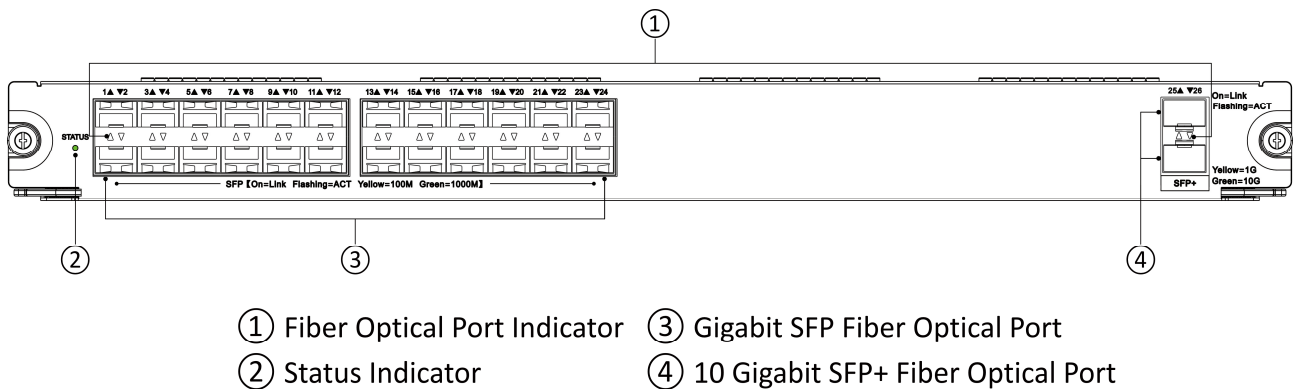


Figure 1-7 24F2X-SA Series

24T24F2X-SA Series

The 24T24F2X-SA series interface module provides twenty-four 10/100/1000 Mbps RJ45 ports, twenty-four Gigabit SFP fiber optical ports, and two 10 Gigabit SFP+ fiber optical ports. The Gigabit SFP fiber optical ports support 1 Gbps/100 Mbps auto-negotiation and are hot-swappable, while the 10 Gigabit SFP+ fiber optical ports are compatible with both 10 Gigabit SFP+ and 1 Gigabit SFP optical modules and also support hot swapping.

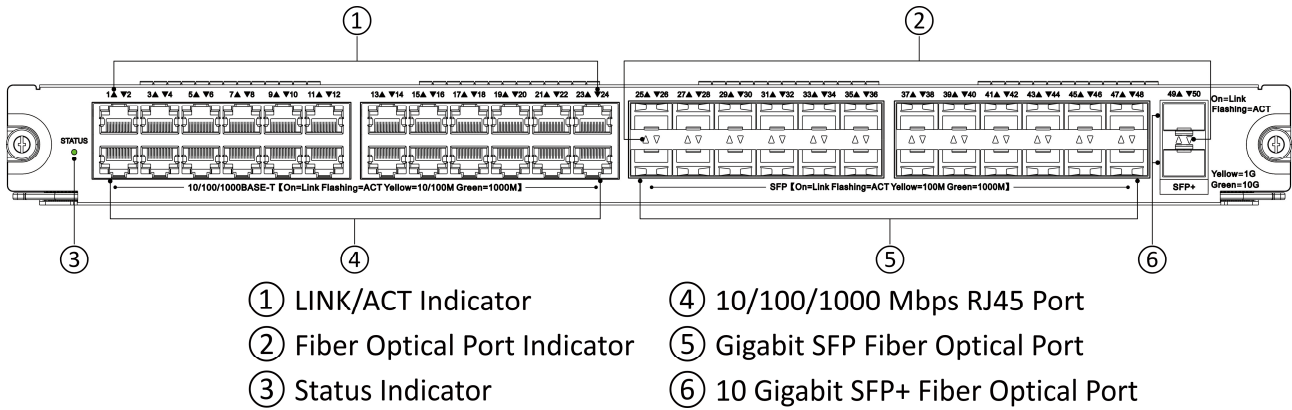


Figure 1-8 24T24F2X-SA Series

48F2X-SA Series

The 48F2X-SA series interface module provides forty-eight Gigabit SFP fiber optical ports and two 10 Gigabit SFP+ fiber optical ports. The Gigabit SFP fiber optical ports support 1 Gbps/100 Mbps auto-negotiation and are hot-swappable, while the 10 Gigabit SFP+ fiber optical ports are compatible with both 10 Gigabit SFP+ and 1 Gigabit SFP optical modules and also support hot swapping.

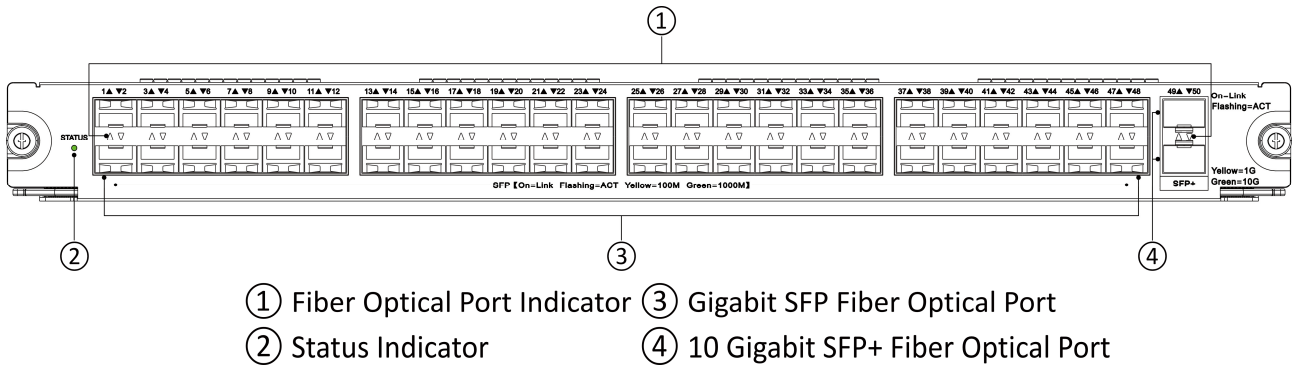


Figure 1-9 48F2X-SA Series

Indicators

Check the status of the interface module via indicators.

Table 1-3 Indicator Description

Indicator	Status	Description
Status Indicator	Solid Green	The interface module started normally.
	Flashing Green	The interface module system is undergoing a power-on self-test.
	Solid Red	The power-on self-test failed, or the interface module is abnormal.
	Unlit	The interface module is powered off.

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

Chapter 2 Installation

To ensure proper installation, please follow the steps below based on your specific requirements.



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

2.1 Installation Preparation

- Read the “Safety Information” part in *Regulatory Compliance and Safety Information* carefully before installation to prevent personal injury and device damage.
- Keep the device clean and dry, and avoid placing it in humid environments.
- When installing any modules, wear an ESD wrist strap to prevent static damage to electronic components. Before connecting the ESD wrist strap to the ESD wrist strap jack on the chassis, ensure that the chassis switch is properly grounded.
- The chassis switch is heavy. Exercise caution when moving it to prevent personal injury or device damage. It is recommended that multiple personnel handle the device together.
- During operation, ensure that each fiber optical port is either connected to a fiber or covered with a dust plug to prevent laser exposure to the eyes.
- Tools are not included with the device. Please prepare a screwdriver and other necessary tools in advance.

2.2 Installation Process

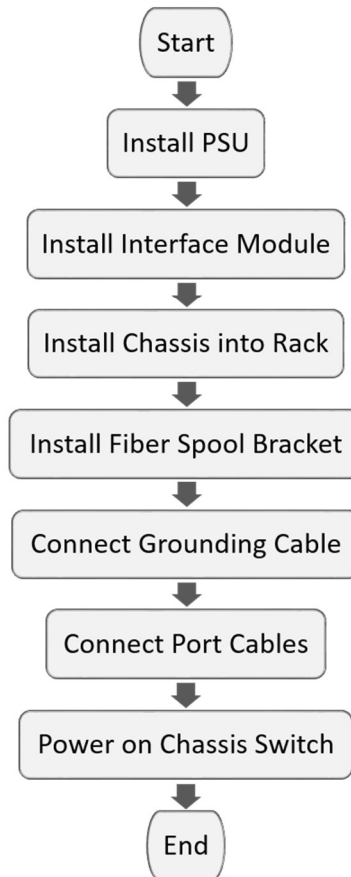


Figure 2-1 Device Installation Process

2.3 Install PSU

Caution

Wear the ESD wrist strap properly to ensure full skin contact and reliable grounding through the ESD wrist strap jack on the chassis.

Step 1 Remove the filler panel from the rear power supply slot of the chassis.

Step 2 Align the PSU with the guide rails in the chassis and gently slide it into the slot in the direction shown in Figure 2-2 until it clicks into place.

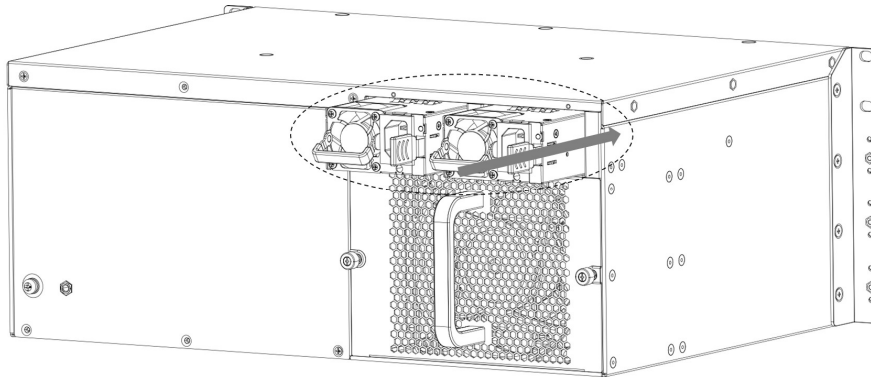


Figure 2-2 Install PSU

Step 3 Tighten the four screws on the PSU.

 Note

- Configure PSUs in 1+1 redundant mode for optimal reliability.
- To reinstall a removed fan module, refer to the steps above. The installation procedure is similar to that for a PSU.

2.4 Install Interface Module

 Caution

- Wear the ESD wrist strap properly to ensure full skin contact and reliable grounding through the ESD wrist strap jack on the chassis.
 - Do not forcibly remove the interface module. Use the extraction levers on both sides to avoid damaging the components.
-

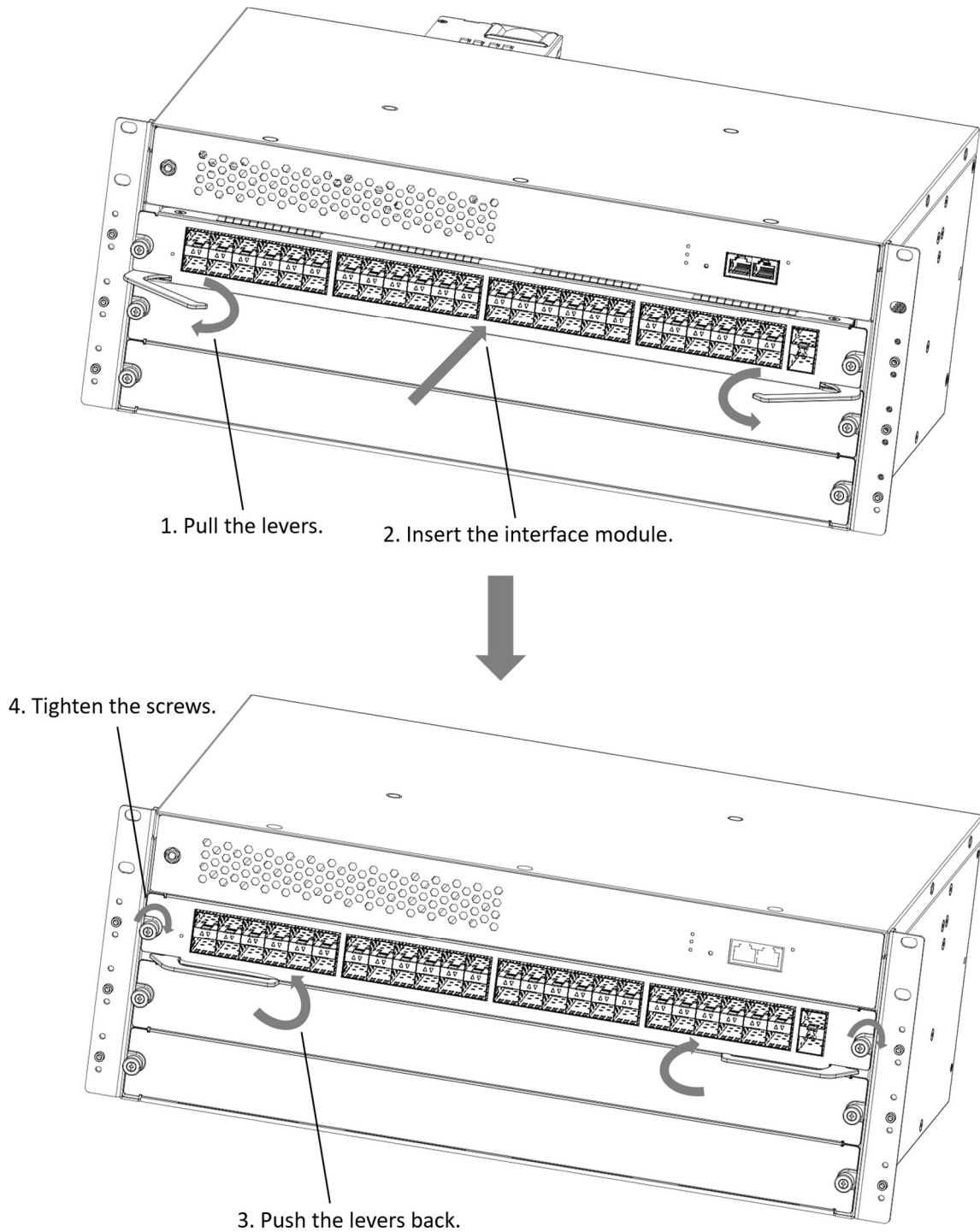


Figure 2-3 Install Interface Module

Note

Remove the slot's filler panel before installing the interface module.

Step 1 Pull the extraction levers open on both sides of the interface module.

Step 2 Align the interface module with the chassis slot guide rails (as shown in Figure 2-3), then insert it horizontally until the module fully engages with the slot.

Step 3 Push the levers back to their closed positions on both sides.

Step 4 Secure the module by tightening the screws at both ends into the corresponding chassis slot.

2.5 Install Chassis into Rack



Prepare a standard 19-inch 4-post cabinet and compatible fasteners (e.g., nuts/screws) for rack-mounted installation.

Step 1 Check the grounding and stability of the rack.

Step 2 Attach the two L-shaped brackets to both sides of the chassis front panel using the provided screws (four per side).

Step 3 Based on the bracket height and mounting hole positions, determine the floating nut locations. Snap two M5 or M6 nuts into the rear side of each rack rail.

Step 4 Place the chassis switch onto the cabinet slide rails or tray, then gently slide it in until the bracket holes align with the installed nuts.

Step 5 Insert two M5 or M6 rack-mounting screws through the front side of each rack rail and tighten them to secure the brackets into the rack's guide grooves. Ensure the device is firmly installed.

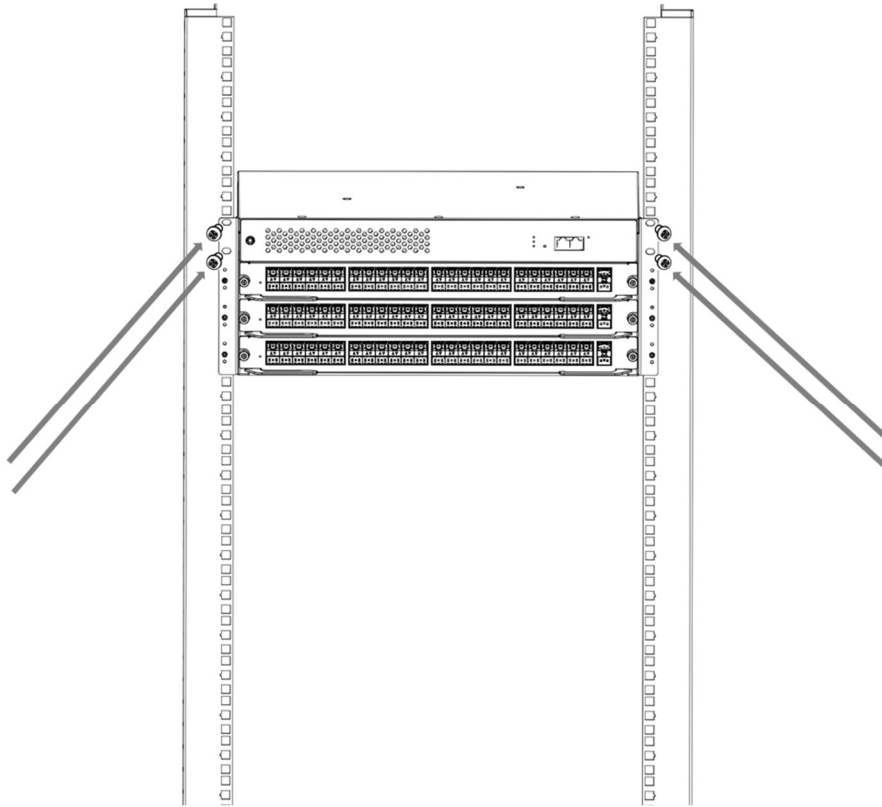


Figure 2-4 Install Chassis into Rack

2.6 Install Fiber Spool Bracket

The fiber spool bracket is designed for organizing fibers or Ethernet cables. Install it before connecting port cables for each interface module to facilitate neat cable management.

Caution

Wear the ESD wrist strap properly to ensure full skin contact and reliable grounding through the ESD wrist strap jack on the chassis.

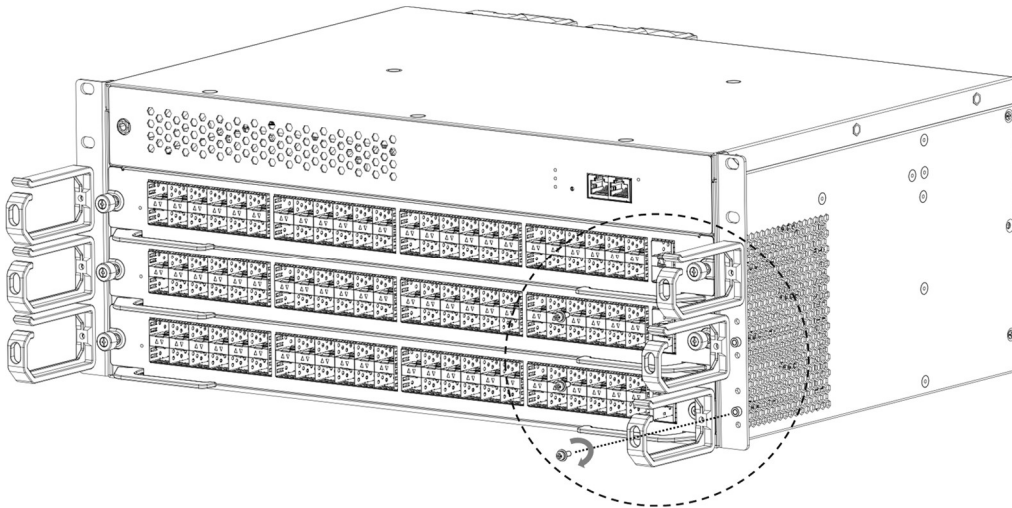


Figure 2-5 Install Fiber Spool Bracket

Step 1 Align the fiber spool bracket with the screw hole on the chassis L-shaped bracket (as shown in Figure 2-5).

Step 2 Tighten the screw to secure the fiber spool bracket to the chassis L-shaped bracket.



Note

Repeat the steps to install three fiber spool brackets on each side.

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.

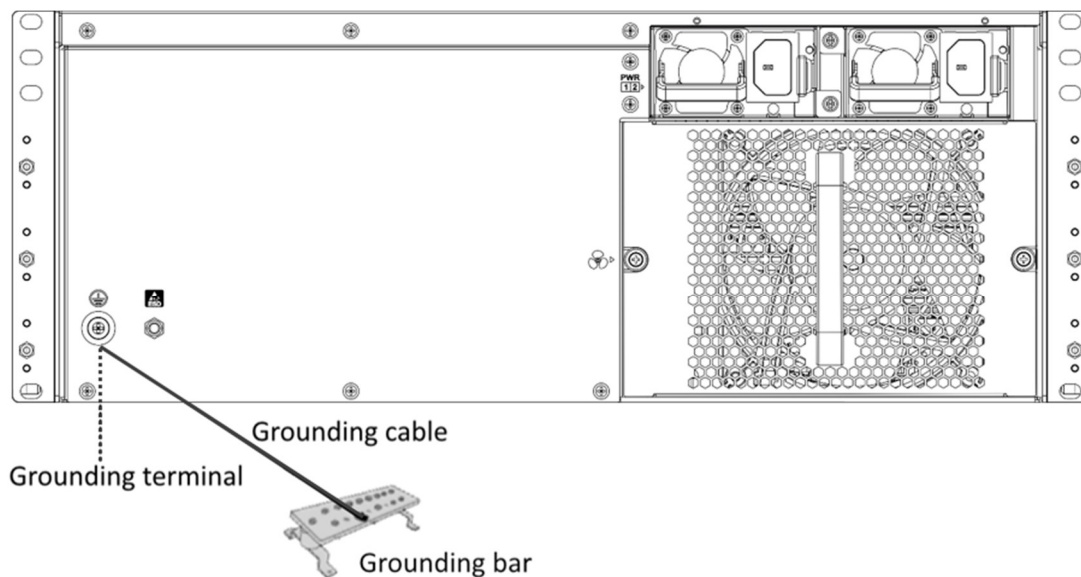


Figure 3-1 Grounding with Grounding Bar

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.

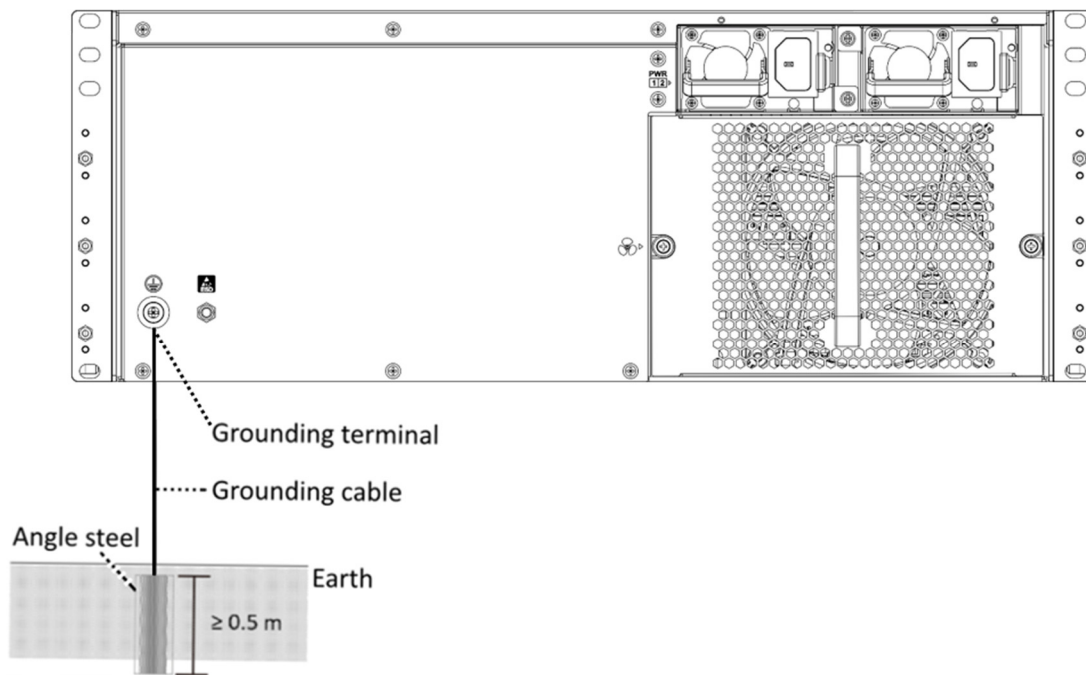


Figure 3-2 Grounding with Angle Steel

3.2 Connect RJ45 Port

Use an Ethernet cable to connect the device to the LAN port or RJ45 port of a peer device (such as an AC router, switch, IPC, or AP).

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

- Wear the ESD wrist strap properly to ensure full skin contact and reliable grounding through the ESD wrist strap jack on the chassis, so as to prevent electrostatic damage to optical modules and other electronic components during installation.
- Single-fiber 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 provided power cable to connect the PSU to a power outlet, supplying power to the chassis switch.

Before powering on your device, 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 lightening arrester to the cable.
-



Caution

Power cables and Ethernet 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 chassis switch supports multiple options, including the Console port, MGMT port, and Ethernet ports. Select an appropriate management method based on your actual needs.

5.1 Log In via Console Port

Log in to the chassis 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 chassis switch to an external terminal (such as a computer) using the provided console cable.

Step 1 Insert the RJ45 connector of the console cable into the Console port on the chassis 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.

5.2 Log In via MGMT Port

Establish a connection to the chassis 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.

 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 management interface or CLI.

5.3 Log In via Ethernet Port

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

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 management 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.

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