HiLook

Gigabit PoE Switch

Quick Start Guide

UD34848B

Preface

Applicable Models

This manual is applicable to NS-0500P series gigabit PoE switches.

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.

1 Introduction

1.1 Product Introduction

NS-0500P series switches are gigabit PoE switches, providing PoE power supply technology on the basis of network access. The devices provide multiple 10/100/1000 Mbps Ethernet ports to upload data via convergence switches. The devices are reliable, easy to install and maintain, and equipped with rapid switching functions. With multiple access ports, the devices are applicable for access of small-scale LAN devices.

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.

Table 1-1 Packing List

Accessory	NS-0505P/NS-0510P	NS-0518P/NS-0526P
Switch	× 1	× 1
Power Adapter	× 1	-
Power Cord	× 1	× 1
L-Shaped Bracket	-	× 2
Screw	-	× 6
Quick Start Guide	× 1	× 1
Regulatory Compliance and Safety Information	× 1	× 1

1.3 Appearance

Device appearances vary with different models. The actual device prevails.

Front Panel

NS-0505P series switches feature four gigabit PoE RJ45 ports and one gigabit RJ45 port.

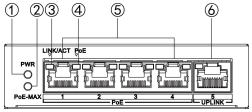

Figure 1-1 NS-0505P Series

NS-0510P series switches feature eight gigabit PoE RJ45 ports, one gigabit RJ45 port, and one gigabit SFP fiber optical port.

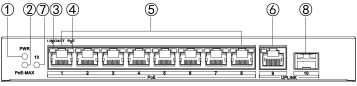

Figure 1-2 NS-0510P Series

NS-0518P series switches feature sixteen gigabit PoE RJ45 ports and two gigabit SFP fiber optical ports.

Figure 1-3 NS-0518P Series

Note

The front panels of NS-0526P series switches are similar to those of NS-0518P series switches. The only difference is that NS-0526P series switches feature twenty-four gigabit PoE RJ45 ports and two gigabit SFP fiber optical ports.

Rear Panel

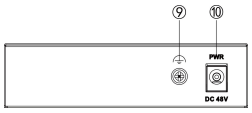

Figure 1-4 NS-0505P Series

Figure 1-5 NS-0510P Series

Figure 1-6 NS-0518P/NS-0526P Series

Table 1-2 Port/Indicator Description

No.	Indicator/Port	Description
①	PWR Indicator	● Solid on: The switch is powered on normally. ● Unlit: No power supply is connected or power supply is abnormal.
②	PoE-MAX Indicator	● Solid on/Flashing: The output power of the switch is about to reach or has reached the upper limit. The power supply may be abnormal if more devices are connected. ● Unlit: The switch does not supply power to a powered device (PD), or supplies power to a PD normally and its output power does not reach the upper limit.

No.	Indicator/Port	Description
		Note About five seconds after the output power of the switch returns to normal, the PoE-MAX indicator will be unlit.
③	LINK/ACT Indicator	● Solid on: The port is connected. ● Flashing: The port is transmitting data. ● Unlit: The port is disconnected or connection is abnormal.
④	PoE Indicator	● Solid on: The switch supplies power to a PD normally. ● Unlit: The switch is disconnected from a PD or power supply is abnormal.
⑤	Gigabit PoE RJ45 Port	Used for connection to a PD via a network cable.
⑥	Gigabit RJ45 Port	Used for connection to another device via a network cable.
⑦	Gigabit SFP Fiber Optical Port Indicator	● Solid on: The gigabit SFP fiber optical port is connected. ● Flashing: The gigabit SFP fiber optical port is transmitting data. ● Unlit: The gigabit SFP fiber optical port is disconnected or connection is abnormal.
⑧	Gigabit SFP Fiber Optical Port	Used for connection to another device via an optical fiber when plugged into with an optical module.
⑨	Grounding Terminal	Used for connection to a grounding cable to protect the switch from lightning.
⑩	Power Supply	Use the attached power adapter or power cord to connect the switch to a socket.

2 Installation

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

Before You Start

- Ensure that the desktop, wall, or rack is stable and firm enough.
- Keep the room well-ventilated. Leave at least 10 cm of heat dissipation space around the device.
- Keep at least 1.5 cm vertical distance between two adjacent devices for rack-mounted installation.

2.1 Desktop Placement

Place the device on the desk.

2.2 Wall Mounting

Steps

1. Check the distance between the two hanging holes on the rear cover of the device.
2. Insert two self-prepared M4 screws into the wall.

Note

- The load-bearing capacity of the wall should be three times more than the weight of the device.
- Ensure that the distance between the two screws equals to the distance between the two hanging holes.
- Set aside at least 4 mm of the screw bodies outside the wall.

3. Align the hanging holes with the screws, and hang the device on the screws.

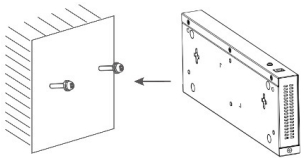

Figure 2-1 Wall Mounting

2.3 Rack Mounting

Steps

1. Check the grounding and stability of the rack.
2. Use M3 screws provided in the package to fix the two L-shaped brackets to both sides of the device.

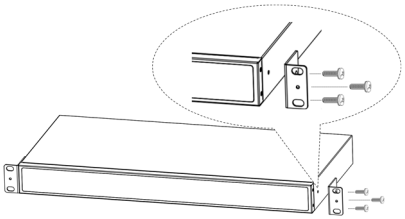

Figure 2-2 Fix L-Shaped Brackets to the Device

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

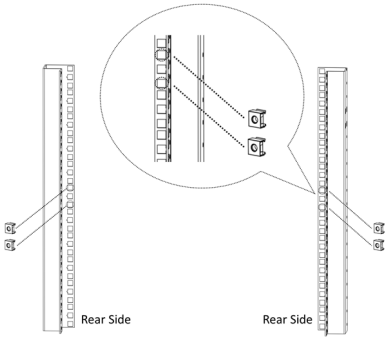

Figure 2-3 Fix Nuts to the Rack

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

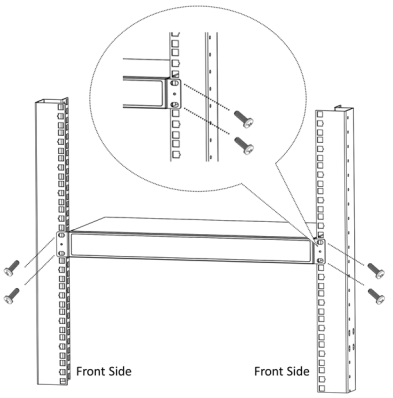

Figure 2-4 Fix the Device to the Rack

3 Wiring

3.1 Connect Grounding Cable

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

Note

The grounding terminal is on the rear or side panel of the device. The actual device prevails.

3.1.1 With Grounding Bar

If a grounding bar is available at the installation site, follow the steps below.

Steps

1. Connect one end of the grounding cable to the binding post on the grounding bar.
2. Connect the other end of the grounding cable to the grounding terminal of the device and tighten the screw.

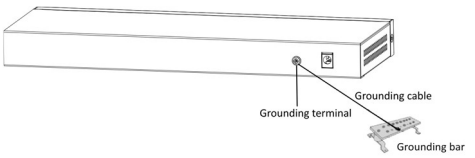

Figure 3-1 Grounding with Grounding Bar

3.1.2 Without Grounding Bar

If there is no grounding bar but the earth is nearby and the grounding body is allowed to be buried, follow the steps below.

Steps

1. Bury an angle steel or steel pipe (≥ 0.5 m) into the earth.
2. Weld one end of the grounding cable to the angle steel or steel pipe and embalm the welding point via electroplating or coating.
3. Connect the other end of the grounding cable to the grounding terminal.

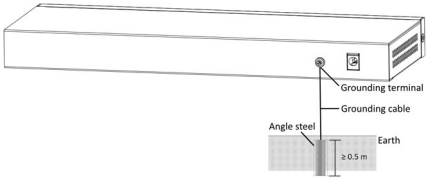

Figure 3-2 Grounding with Angle Steel

3.2 Connect RJ45 Port

Use a network cable to connect the device to the RJ45 port of a peer device such as network camera, NVR, switch, etc.

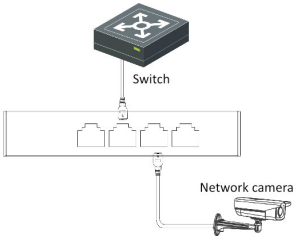

Figure 3-3 RJ45 Port Connection

3.3 Connect SFP Optical Module

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

Note

A combo interface consists of a RJ45 port and a fiber optical port. You can use either the RJ45 port or the fiber optical port of a combo interface, but cannot use them at the same time.

- When connected to a network cable, the combo interface is a RJ45 port.
- When plugged into with an optical module and connected to an optical fiber, the combo interface functions as a fiber optical port.
- When connected to both a network cable and an optical fiber, the combo interface works as a fiber optical port.

Steps

Caution

- Single-mode 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.

1. Connect the two paired SFP optical modules with an optical fiber.
2. Hold the SFP optical module from one side, and smoothly plug it into the device along the SFP port slot until the optical module and the device are closely attached.
3. After powering on the device, check the status of the fiber optical port indicator.
   - If the indicator is lit, the link is connected.
   - If the indicator is unlit, the link is disconnected.
4. Check the line, and make sure that the peer device has been enabled.

4 Device Powering-On

Please use the attached power adapter or power cord to power on the device.

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