HIKVISION

Gigabit Switch

Quick Start Guide

See Far, Go Further

Preface

Applicable Models

This manual is applicable to 0500(R) series gigabit switches.

Symbol Conventions

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

Symbol	Description
[i] 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

0500(R) series switches are unmanaged gigabit network switches, providing sixteen or twenty-four gigabit Ethernet ports to upload data via convergence switches. The devices support one-button switching among four working modes: standard switch, port isolation, port aggregation, and network clone. 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	Quantity
Switch	× 1
AC Power Cord	× 1
L-Shaped Bracket	× 2
Screw	× 6
Quick Start Guide	× 1
Regulatory Compliance and Safety Information	× 1

1.3 Appearance

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

Front Panel

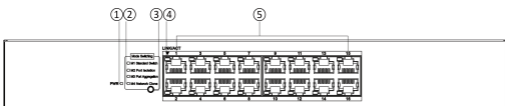0516(R) series switches feature sixteen gigabit RJ45 ports.

Figure 1-1 0516(R) Series

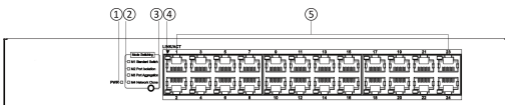0524(R) series switches feature twenty-four gigabit RJ45 ports.

Figure 1-2 0524(R) Series

i Note

The only difference between 0500 and 0500R series switches lies in dimensions.
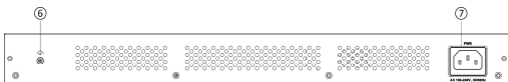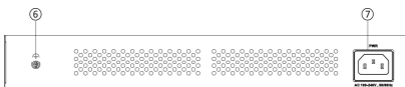
Rear Panel

Figure 1-3 0516/0524 Series

Figure 1-4 0516R/0524R Series

Table 1-2 Port/Indicator Description

No.	Port/Indicator	Description
①	PWR Indicator	● Solid on: The switch is powered on normally. ● Unlit: No power supply is connected or power supply is abnormal.
②	Working Mode Indicator	● Solid on: The switch works in this mode. ● Unlit: The switch does not work in this mode.
③	Mode Button	Used for switching the switch's working mode. ⌷**i**Note The switchover takes effect immediately. Once the switch is powered off, the working mode operated before the power failure is automatically saved.
④	LINK/ACT Indicator	● Solid on: The port is connected. ● Flashing: The port is transmitting data. ● Unlit: The port is disconnected or connection is abnormal.
⑤	Gigabit RJ45 Port	Used for connection to another device via a network cable.
⑥	Grounding Terminal	Used for connection to a grounding cable to protect the switch from lightning.
⑦	Power Supply	Use the attached AC power cord to connect the switch to a socket.

⌷**i**Note

The switch supports four working modes: standard switch (M1), port isolation (M2), port aggregation (M3), and network clone (M4). Table 1-3 describes the four working modes.

Table 1-3 Working Mode Description

Working Mode	Description
M1 Standard Switch	All ports can communicate with each other, equivalent to a standard gigabit switch.
M2 Port Isolation	All downlink ports are isolated from each other and can communicate only with uplink ports. This mode is used for broadcast storm suppression and network performance improvement.
M3 Port Aggregation	Uplink ports are aggregated into one aggregation group. This mode is used for increasing uplink bandwidth and preventing network congestion.
M4 Network Clone	Flow control of all ports is disabled, and a dedicated broadcast and multicast packet processing mechanism is set. This mode is used for accelerating batch network clone and reducing device breakdowns in various complex networking environments.

2 Installation

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

ⓘNote

- 0500R series switches support desktop placement, wall mounting, and rack mounting, while 0500 series switches support only desktop placement and rack mounting.
- The following figures are for illustration only. The actual device prevails.

Before You Start

- Ensure that the desktop 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 mounting.

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.

- 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.

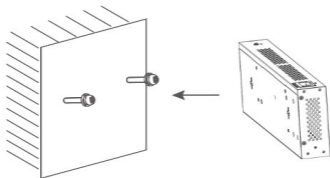3. Align the hanging holes with the screws, and hang the device on the screws.

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.
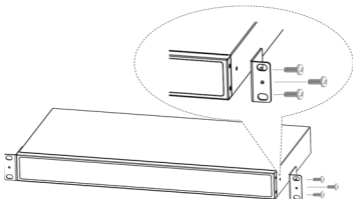

Figure 2-2 Fix L-Shaped Brackets to the Device

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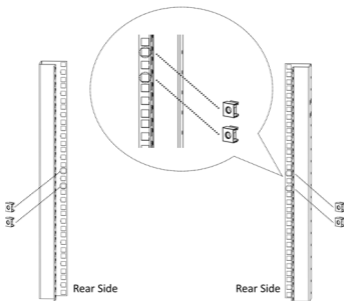

Figure 2-3 Fix Nuts to the Rack

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 M5 or M6 screws on both sides respectively to stably install your device.
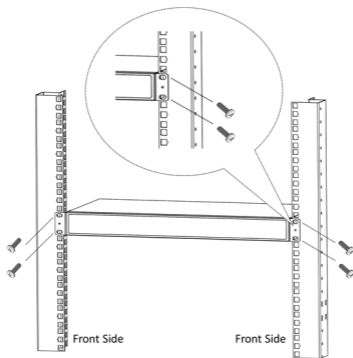
Figure 2-4 Fix the Device to the Rack

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.

⌐i⌐Note

The following figures are for your reference only.

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.
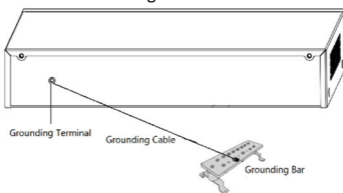2. Connect the other end of the grounding cable to the grounding terminal of the device and tighten the screw.

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.
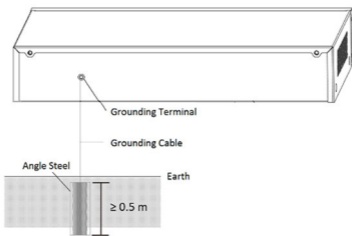
Figure 3-2 Grounding with Angle Steel

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 (IPC), network video recorder (NVR), switch, etc.
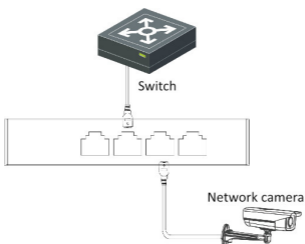

Figure 3-3 RJ45 Port Connection

i Note

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

4 Device Powering-On

Please use the attached AC 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 wiring, connect a lightning rod and a lightening arrester to the cable.