HIKVISION

Gigabit Switch

Quick Start Guide

See Far, Go Further

Preface

Applicable Models

This manual is applicable to 0500TF series gigabit 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

0500TF series switches are unmanaged gigabit network switches, providing multiple gigabit 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	Quantity
Switch	× 1
AC Power Cord	× 1
L-Shaped Bracket	× 2
Screw	× 4
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

0524TF series switches feature twelve gigabit RJ45 ports and twelve gigabit SFP fiber optical ports.
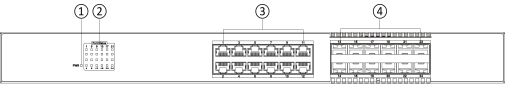

Figure 1-1 0524TF Series

Rear Panel

Figure 1-2 0524TF Series

Table 1-2 Port/Indicator Description

No.	Indicator/Port	Description
①	PWR Indicator	● Solid on: The switch is powered on normally.

No.	Indicator/Port	Description
		● Unlit: No power supply is connected or power supply is abnormal.
②	Port Status Indicator	● Solid on: The port is connected. ● Flashing: The port is transmitting data. ● Unlit: The port is disconnected or connection is abnormal.
③	Gigabit RJ45 Port	Used for connection to another device via a network cable.
④	Gigabit SFP Fiber Optical Port	Used for connection to another device via an optical fiber when plugged into with an optical module.
⑤	Grounding Terminal	Used for connection to a grounding cable to protect the switch from lightning.
⑥	Power Supply	Use the attached AC power cord to connect the switch to a socket.

2 Installation

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

ⓘNote

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 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.
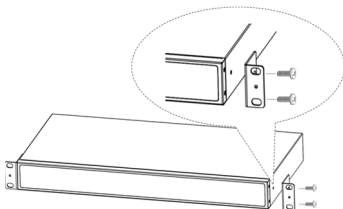

Figure 2-1 Fix L-Shaped Brackets to the Device

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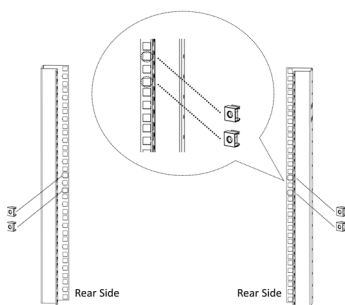

Figure 2-2 Fix Nuts to the Rack

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.
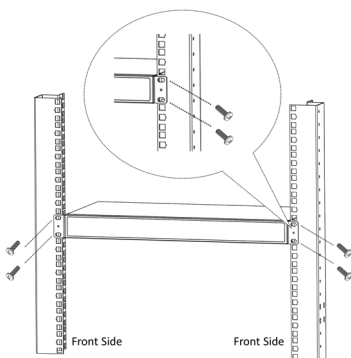

Figure 2-3 Fix the Device to the Rack

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.
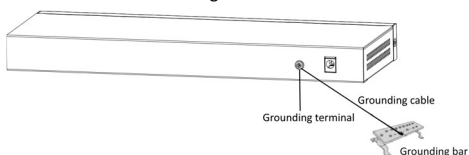

Figure 3-1 Grounding with Grounding Bar

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.
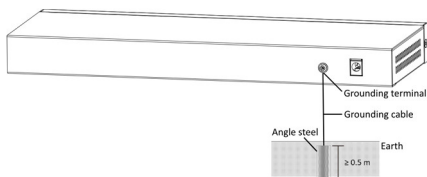3. Connect the other end of the grounding cable to the grounding terminal.

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.
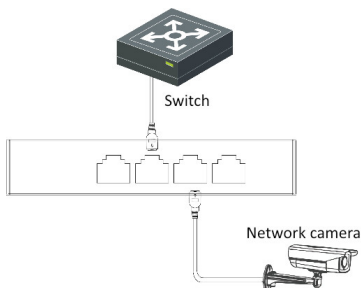

Figure 3-3 RJ45 Port Connection

⌴ Note

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

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.

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 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.

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.