Smart Managed Industrial Flat PoE Switch

Quick Start Guide

UD44171B

Preface

Applicable Models

This manual is applicable to the smart managed industrial flat PoE switch.

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

DS-3T1510P-SI-FLT is a smart managed industrial flat PoE switch developed by Hikvision, integrating PoE power supply technology on the basis of network access to ensure stable data transmission. It features 8 gigabit PoE RJ45 ports and 2 gigabit SFP fiber optical ports, along with dual power inputs for enhanced system reliability. The device supports flexible management through web, iVMS-4200 client, and Hik-Partner Pro app, offering functions such as network topology management, port management, and loop prevention. Designed to be installed in a wall enclosure, or simply mounted on a wall or DIN rail, this product, with its industrial-grade design, excellent electromagnetic compatibility, and shock protection capability, is especially suitable for networking applications in multiple scenes.

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
DIN Rail Kit Note A DIN rail kit contains 1 mounting clip and 2 M3×5 screws.	× 1
Quick Start Guide	× 1
Regulatory Compliance and Safety Information	× 1

1.3 Appearance

DS-3T1510P-SI-FLT features 8 gigabit PoE RJ45 ports and 2 gigabit SFP fiber optical ports.

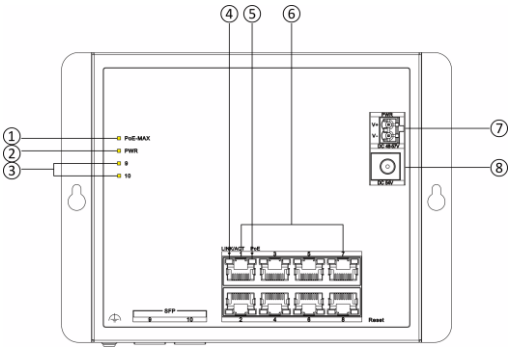

Figure 1-1 Top Panel

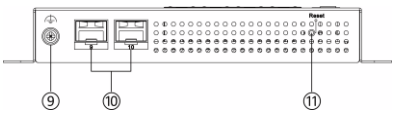

Figure 1-2 Front Panel

Table 1-2 Port/Indicator Description

No.	Port/Indicator	Description
①	PoE-MAX Indicator	● Solid on: 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 supplies power to a powered device (PD) normally and its output power does not reach the upper limit. Note The PoE-MAX indicator will be unlit in 5 seconds after the output power of the switch returns to normal.
②	PWR Indicator	● Solid on: The switch is powered on normally. ● Unlit: No power supply is connected or power supply is abnormal.
③	Gigabit SFP Fiber Optical Port	● Solid on: The gigabit SFP fiber optical port is connected.

No.	Port/Indicator	Description
	Indicator (Ports 9 and 10)	• Flashing: The gigabit SFP fiber optical port is transmitting data. • Unlit: No gigabit SFP fiber optical port connected or connection is abnormal.
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	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.
⑥	Gigabit PoE RJ45 Port	Used for connection to a PD via a network cable.
⑦	2-Pin Terminal Block (DC 48-57 V)	Connect the positive DC power wire to the **V+** terminal and the negative wire to the **V-** terminal. Ensure the wires are fully inserted, then tighten the terminal screws to secure them.
⑧	DC Jack (DC 54 V)	Connect the switch to a power socket using a self-prepared power cord and power adapter (or an integrated power adapter, if applicable). Ensure the adapter output voltage matches the switch's DC input requirement. Note Select either of the two power input methods based on the on-site conditions.
⑨	Grounding Terminal	Used for connection to the grounding cable to protect the switch from lightning.
⑩	Gigabit SFP Fiber Optical Port	Used for connection to another device via an optical fiber when plugged into with an optical module.
⑪	Reset Button	Press and hold the reset button for more than 5 seconds to restore all the

No.	Port/Indicator	Description
		configurations of the switch to default settings.

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, wall, or rail is stable and firm enough.
- Keep the room well-ventilated. Keep at least 10 cm distance around the device for heat dissipation.

2.1 Desktop Placement

Place the device on the desk.

2.2 Wall-Mounted Installation

Steps

1. Drill two horizontally aligned holes in the wall. The distance between the two holes should be equal to that between the switch's mounting holes, and the hole diameter must fit your self-provided expansion screws.
2. Insert expansion sleeves into the holes respectively, ensuring their end faces are flush with the wall surface.
3. Align the switch's mounting holes with the expansion sleeves, insert expansion bolts, and screw the bolts clockwise until the expansion sleeves are fully expanded (audible **"click"** or resistance may indicate proper fixation).

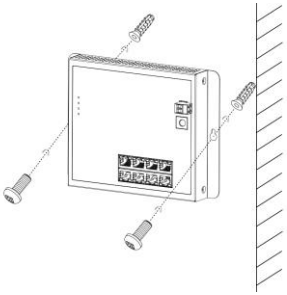

Figure 2-1 Wall-Mounted Installation

Note

- Ensure that the wall material and screw specifications support the switch's weight.
- The load-bearing capacity of the wall should be three times more than the weight of the device.
- Prepare screws yourself. M4 pan screws are recommended.

2.3 Rail-Mounted Installation

Steps

1. Use the screws provided in the DIN rail kit to fix the mounting clip to the switch, as shown in Figure 2-2.

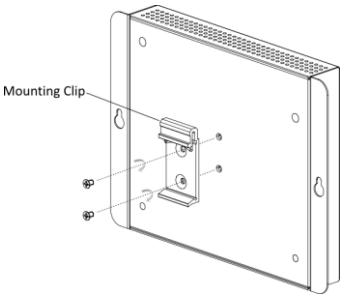

Figure 2-2 Fix the Mounting Clip to the Switch

2. Align the top slot of the mounting clip with the upper flange of the DIN rail (mounted on the wall or in the cabinet).
3. Pivot the switch upward to engage the bottom retaining clip with the lower flange of the DIN rail.

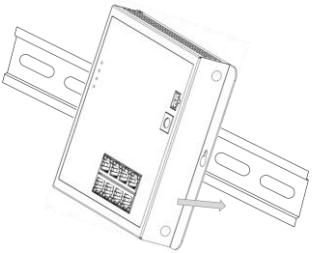

Figure 2-3 Mount the Switch Onto the DIN Rail

4. Press the switch downward until an audible **"click"** is heard (confirming the clip is locked).

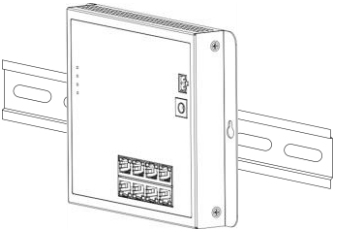

Figure 2-4 Installation Completed

5. Optional: For high-vibration environments, secure the switch to the DIN rail using optional anti-loosening screws.

3 Wiring

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.

Note

The following figures are for your reference only. 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.

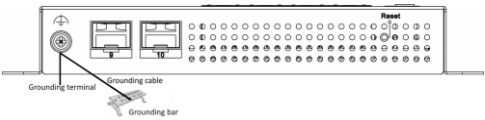

Figure 3-1 Grounding with Grounding Bar

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.

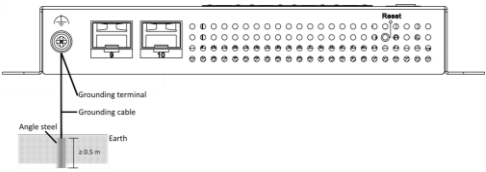

Figure 3-2 Grounding with Angle Steel

3.2 Connect RJ45 Port

Use a network cable to connect the device to the RJ45 port of a peer device such as IPC, network video recorder (NVR), switch, etc.

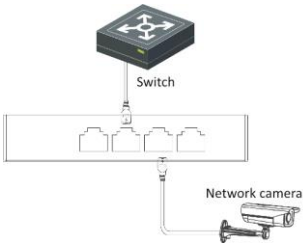

Figure 3-3 RJ45 Port Connection

3.3 Connect SFP Optical Module

Connecting an SFP optical module is supported when the device has 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 optical port 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 that the peer device has been enabled.

4 Powering On

Before powering your switch on, make sure that:

- The operating power supply is compliant with the rated input standard.
- Port cables and grounding cables are correctly connected.
- If there is outdoor cabling, connect a lightning rod and lightening arrester to the cable.

Select either of the two power input methods based on the on-site conditions.

- 2-Pin terminal block (DC 48-57 V): Connect the positive DC power wire to the **V+** terminal and the negative wire to the **V-** terminal. Ensure the wires are fully inserted, then tighten the terminal screws to secure them.
- DC jack (DC 54 V): Connect the switch to a power socket using a self-prepared power cord and power adapter (or an integrated power adapter, if applicable). Ensure the adapter output voltage matches the switch's DC input requirement.

⚠Caution

Power cables and network cables of PoE switches cannot be wired together, otherwise the PD or switch ports will be burnt.

5 Device Management

5.1 On Hik-Partner Pro App

The Hik-Partner Pro app supports batch device activation, network topology drawing, device configuration, system maintenance, etc.

Steps

1. Install the Hik-Partner Pro app.

Figure 5-1 Scan and Download HPP

2. Connect your phone to a Wi-Fi network. If you cannot connect to a Wi-Fi network, use a USB-C RJ45 adapter to connect your phone to a LAN.

Note

Make sure your phone and the devices in your networking (such as the switch, wireless bridge, and IPC) are on the same LAN and are not activated.

3. Batch activate devices in your networking plan.
   a. Open the Hik-Partner Pro app, and tap **Activate** to batch activate new devices found.
   b. Enter the password for user **admin** and verification code, and tap **Next**.
   c. Wait until the devices are activated, and then tap **Complete**.
4. Add devices to a site.
   a. Create a new personal or team site, or select an existing site.
   b. Select the desired devices, and tap **OK** to add the devices to the site.
5. Optional: Tap **Transfer** to hand over the site to the customer.

5.2 On Web Page

The device also supports remote management via web page, supporting functions such as activation and login, device overview, network configuration, device configuration, system maintenance, etc.

For details, please refer to the Web user manual of the device at http://enpinfodata.hikvision.com/analysisQR/showQR/3298a0c0 or scan the QR code below.

Table 5-4 Web User Manual