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100M or Gigabit Hi-PoE Switch

Quick Start Guide



See Far, Go Further

Legal Information

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About this Manual

The Manual includes instructions for using and managing the Product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version of this Manual at the Hikvision website (<https://www.hikvision.com/>).

Please use this Manual with the guidance and assistance of professionals trained in supporting the Product.

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Regulatory Information

FCC Information

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC compliance: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Conditions

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

EU Conformity Statement



This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the EMC Directive 2014/30/EU, the RoHS Directive 2011/65/EU.



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: <http://www.recyclethis.info>.



2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: <http://www.recyclethis.info>.

Industry Canada ICES-003 Compliance

This device meets the CAN ICES-3 (A)/NMB-3(A) standards requirements.

Preface

Applicable Models

This manual is applicable to DS-3T03XXHP series and DS-3T05XXHP series switches.

Symbol Conventions

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

Symbol	Description
 Danger	Indicates a hazardous situation which, if not avoided, will or could result in death or serious injury.
 Caution	Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
 Note	Provides additional information to emphasize or supplement important points of the main text.

Safety Instruction



Caution

- During the installation and utilization of the device, please strictly conform to electrical safety rules in different nations and regions.
- Use the power adapter delivered with the device only.
- The device can be directly or modified to connect with IT power distribution system.
- Please install the device in accordance with the installation method in the manual.
- Do not place any naked flame sources, such as lit candles, on the device.
- Do not place any objects containing water or liquids on the device. Prevent the device from water dropping or splashing.
- The device must be installed in machine room or machine cabinet only, and only maintenance staff or qualified person can access to the device.
- Do not touch the cover area of the device that may be overheated.



Danger

- Please fix the device in a stable position. Otherwise, serious personal injury or casualties may happen if the device is dumped.
- The supporting accessories can only be used together with the device. Using them with other device may cause instability and injury.
- The device must be firmly fixed on the DIN rail or wall to prevent injury.
- Place the device out of reach of kids.
- The power socket or power plug is used to disconnect power. Do not cover the power socket or power plug so that it can be easily moved.
- The device has multiple power supplies. To avoid electric shock, please disconnect all power supplies during maintenance.
- This is a class A product and may cause radio interference in which case the user may be required to take adequate measures.
- If the product does not work properly, please contact your dealer or the nearest service center. Never attempt to disassemble the product yourself. (We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.)

1 Introduction

1.1 Product Introduction

DS-3T03XXHP series and DS-3T05XXHP series switches are layer 2 Hi-PoE switches, providing advanced PoE power supply technology and wider temperature (-30 to 65 °C, that is, -22 to 149 °F) design on the basis of high-performance access to ensure stable data upload. The switches support Hi-PoE, long range, port isolation, and PoE watchdog function.

1.2 Packing List

	DS-3T03XXHP Series	DS-3T05XXHP Series
Switch	× 1	× 1
Power Adapter	× 1	× 1
AC Power Cord	× 1	× 1
Wall Mount Ear	× 2	× 2
DIN Rail Mount Clip	× 2	× 2
Screw	× 6	× 6
Quick Start Guide	× 1	× 1

1.3 Appearance

Different models of devices may have different appearances. The following pictures are only for illustration.

Front Panel

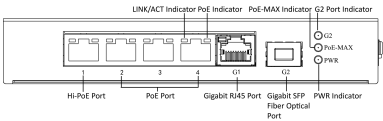


Figure 1-1 DS-3T0306HP-E

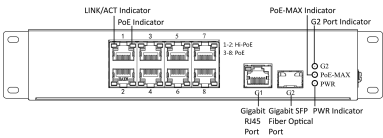


Figure 1-2 DS-3T0310HP-E

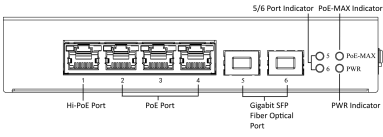


Figure 1-3 DS-3T0506HP-E

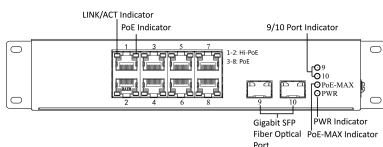


Figure 1-4 DS-3T0510HP-E

Rear Panel

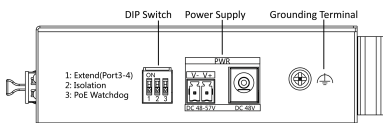


Figure 1-5 DS-3TXX06HP-E Series

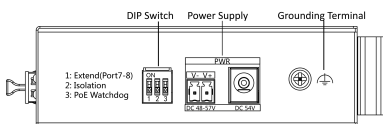


Figure 1-6 DS-3TXX10HP-E Series

Port/Indicator Description

Indicator/Port	Description
PoE-MAX Indicator	• Solid /Flashing: The output power of the switch will reach the upper limit. The power supply may be abnormal if more devices are connected. • Unlit: The switch provides power supply to PD normally.
PWR Indicator	• Solid: The switch is powered on normally. • Unlit: No power supply connected or power supply is abnormal.
LINK/ACT Indicator	• Solid: The port is connected. • Flashing: The port is transmitting data. • Unlit: The port is disconnected or connection is abnormal.
PoE Indicator	• Solid: The switch provides power supply to PD normally. • Unlit: The switch is disconnected to PD, or provides power supply to PD abnormally.
G2/5/6/9/10 Port Indicator	• Solid: The gigabit SFP fiber optical port is connected. • Flashing: The gigabit SFP fiber optical port is transmitting data. • Unlit: No gigabit SFP fiber optical port connected or connection is abnormal.
Hi-PoE Port	Used for other Hi-PoE PTZ cameras connection. In the temperature from 0 to 40 °C (32 to 104 °F), the max. power of DS-3TXX06HP series is 60 W, and the max. power of DS-3TXX10HP series is 90 W.

PoE Port	Used for other PD devices connection via network cables.
Gigabit RJ45 Port	Used for devices connection via network cables.
Gigabit SFP Fiber Optical Port	Used for other devices connection via optical fiber when plugged into with an optical module.
Grounding Terminal	Used for connecting to the grounding cable to protect the switch from lightning.
Power Supply	Use the attached power cord to connect the switch to socket.
DIP Switch	Support 3 modes: • Extend: Port 3 and 4 of DS-3TXX06HP-E series and port 7 and 8 of DS-3TXX10HP-E series support network transmission of up to 300 metres. • Isolation: Data transmission of each port is isolated from each other to improve network security. • PoE Watchdog: Auto-detect and restart cameras that do not respond.

2 Installation

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

Before You Start

- Keep the room well-ventilated.
- Keep at least 10 cm distance around the device for heat dissipation.

2.1 Wall-Mounted Installation

Before You Start

Use a screwdriver to remove the DIN rail-mounted unit.

Steps

1. Fix the wall mount ears to the device with self-prepared M4 screws.
2. Use self-prepared M4 screws to fix the device onto the wall.

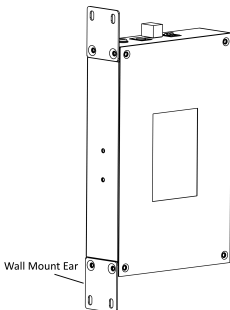


Figure 2-1 Wall-Mounted Installation

2.2 Rail-Mounted Installation

Steps

1. Fix the clip to the device.
2. Insert the end of DIN rail-mounted unit into the notch under the clip.

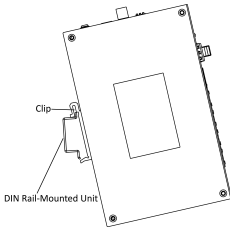


Figure 2-2 Rail Mounted Installation

3. Press the DIN rail-mounted unit in quickly.

3 Grounding

3.1 Connecting the Grounding Cable

Grounding is used to quickly release overvoltage and overcurrent induced by lightening for switch, and to protect personal safety. Select the appropriate grounding method according to your needs.

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 fix the screw.

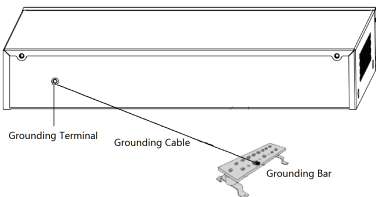


Figure 3-1 Grounding with Grounding Bar

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 mud land.

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.

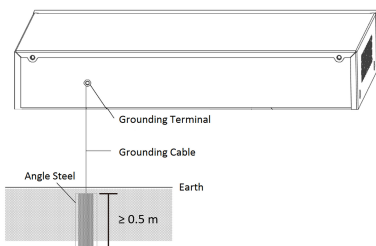


Figure 3-2 Grounding with Angle Steel

3.2 Connecting 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.

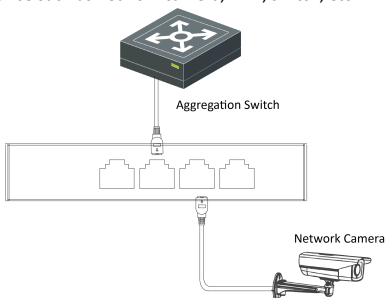


Figure 3-3 RJ45 Port Connection

3.3 Connecting SFP Optical Module

Connecting SFP optical module is supported when the device has a fiber optic port or a combo.

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

When connected to both the network cable and optical fiber at the same time, the port works as a fiber optic port.

Steps



Caution

- Single-Mode optical module needs to be paired.
- Do not bend fiber optic (curvature radius $\geq 10 \text{ cm}$) overly.
- Do not look directly at fiber optic connector because the laser 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 with the SFP port slot until the optical module and the device are closely attached.
3. After powering on the device, check the status of LINK/ACT 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 peer devices have been started.

4 Powering on the Device

Please use the attached power cord in package to power on the device.

Before powering your switch, 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 lightening arrester to the cable.



Caution

PoE power supply line and strong wire cannot be wired together, otherwise PD equipment or switch ports will be burnt.
