4-Port or 8-Port Unmanaged PoE Switch

Quick Start Guide

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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 NS-0106P-35 and NS-0310P-60 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

⚠ Danger

- The device must be connected to an earthed mains socket-outlet.

- The socket-outlet shall be installed near the device and shall be easily accessible.

- ⌇ indicates hazardous live and the external wiring connected to the terminals requires installation by an instructed person.

- This is a class A product and may cause radio interference in which case the user may be required to take adequate measures.

⚠ Caution

- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region.

- CAUTION: Double pole/Neutral fusing. After operation of the fuse, parts of the device that remain energized might represent a hazard during servicing.

- The device has been designed, when required, modified for connection to an IT power distribution system.

- Install the device according to the instructions in this manual.

- To prevent injury, this device must be securely attached to the rack in accordance with the installation instructions.

- This device is suitable for mounting on concrete or other non-combustible surface only.

- 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.

- Keep some distance around the device for sufficient ventilation.

- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloths, curtains, etc. The openings shall never be blocked by placing the device on a bed, sofa, rug or other similar surface.

1 Introduction

1.1 Product Introduction

NS-0106P-35 series and NS-0310P-60 series switches are layer 2 Hi-PoE switches, providing advanced PoE power supply technology on the basis of high-performance access to ensure stable data upload. The switches support long range function.

1.2 Packing List

	NS-0106P-35 Series	NS-0310P-60 Series
Switch	× 1	× 1
Power Adapter	× 1	× 1
AC Power Cord	× 1	× 1
Quick Start Guide	× 1	× 1

1.3 Appearance

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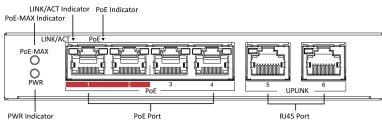
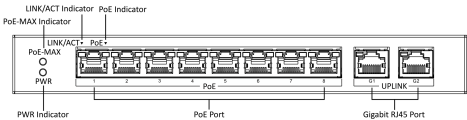**Front Panel**

Figure 1-1 NS-0106P-35

Figure 1-2 NS-0310P-60

Rear Panel

Figure 1-3 NS-0106P-35

Figure 1-4 NS-0310P-60

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.
PoE Port	Used for other PD devices connection via network cables.
(Gigabit) RJ45 Port	Used for devices connection via network cables.
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 extend mode: Ports 1 to 4 of DS-3E0106P-E/M and ports 1 to 8 of DS-3E0310P-E/M support network transmission of up to 250 metres.

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 Desk-Mounted Installation

Place the device on the desk.

2.2 Wall-Mounted Installation

Steps

1. Check the distance between the two hanging holes on the rear cover of the device.

2. Insert two M4 screws into the wall.

> **i** **Note**
> - Please prepare two M4 screws.
> - Ensure that the distance between the two screws equals that between the two hanging holes.
> - Set aside at least 4 mm screws outside the wall.

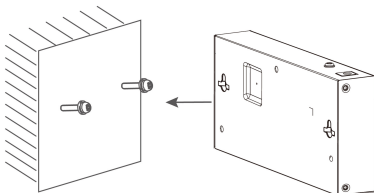**3.** Align the hanging holes with screws, and hang the device on the screws.

Figure 2-1 Wall-Mounted Installation

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.
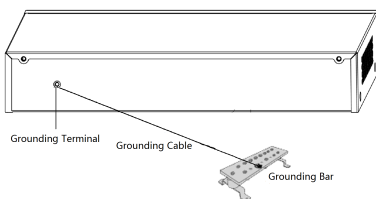

Grounding Terminal   Grounding Cable

Grounding Bar

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.

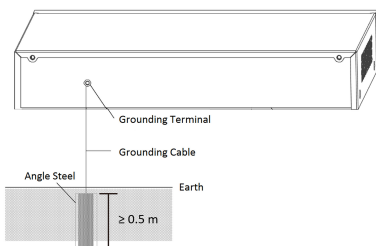3. Connect the other end of the grounding cable to the grounding terminal.

Figure 3-2 Grounding with Angle Steel

3.2 Connecting RJ45 Port

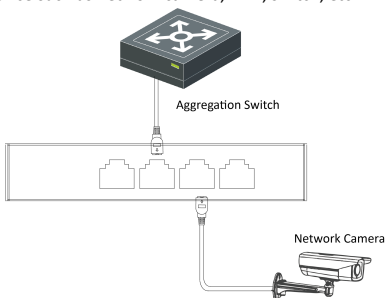Use a network cable to connect the device to the RJ45 port of a peer device such as network camera, NVR, switch, etc.

Figure 3-3 RJ45 Port Connection

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.