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16/24-Port 100M Long-Range PoE Switch

Quick Start Guide

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Quick Start Guide

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About this Manual

This Manual is applicable to DS-3E03XXP Series 100M PoE Switch.

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 in the company website (<http://overseas.hikvision.com/en/>).

Please use this user manual under the guidance of professionals.

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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 LVD Directive 2014/35/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: 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: www.recyclethis.info

Industry Canada ICES-003 Compliance

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

Applicable Models

This manual is applicable to DS-3E03XXP series 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.
 WARNING	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.

WARNING

- During the installation and utilization of the device, please strictly conform to electrical safety rules in different nations and regions.
- The device must be installed in machine room only, and only maintenance staff or qualified person should access to the device.
- Do not touch the upper cover area of the device that may be overheated.
- Power must be shut down during cable connection, device installation and dismantlement.
- You shall acknowledge that the use of the device with Internet access might be under network security risks, please strengthen protection for your personal information and data security. If you find the device might be under network security risks, please contact with us.
- Proper configuration of all passwords and other security settings is the responsibility of the installer, and you shall keep user name and passwords properly.

Chapter 1 Introduction

1.1 Overview

DS-3E03XXP series switches are layer 2 network switches used in the access of surveillance network. The switches provide 16/24 10/100M RJ45 ports, 1000M combos, and support long-range access up to 250 m. DS-3E03XXP series switches support uplink aggregation, increase uplink bandwidth, and ensure reliable uploading of multi-channel video data. With high reliability, convenience for installation and maintenance, quick switch function, and multi-port, the switches are applicable to device access in small-scaled local area network (LAN) or collective uploading.

1.2 Packing List

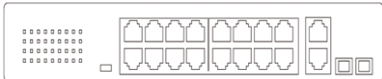
Please refer to the packing list as below to check whether accessories with the switches are complete or not.



NOTE

If there is any damage or lack, take the original package and contact the dealer to change.

Table 1-1 Packing List of DS-3E0318P and DS-3E0326P

Name	Item	Quantity
Switch		1
L-shaped bracket		1
Power cord		1
Screw		4
User manual		1

1.3 Appearance

1.3.1 Front Panel

Front panels of DS-3E0318P and DS-3E0326P are shown as below.

Front Panel of DS-3E0318P

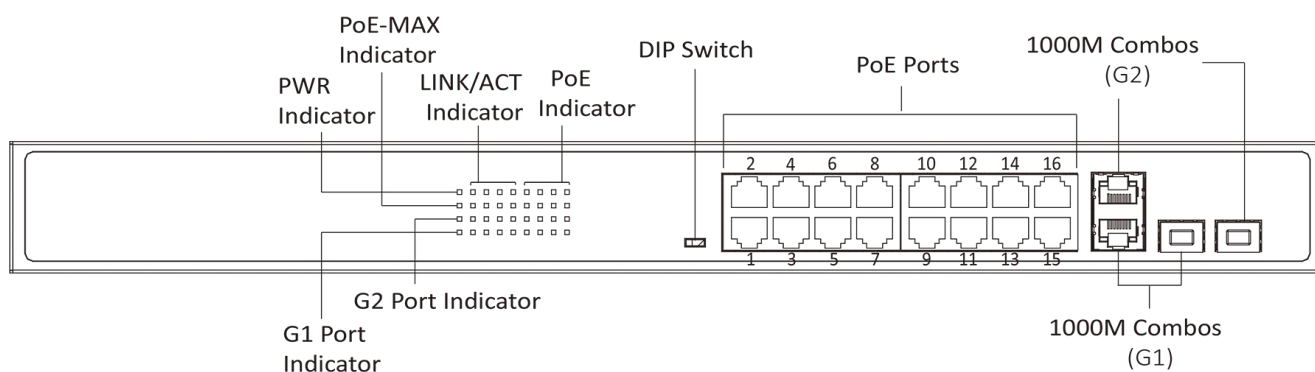


Figure 1-1 DS-3E0318P Front Panel

Front Panel of DS-3E0326P

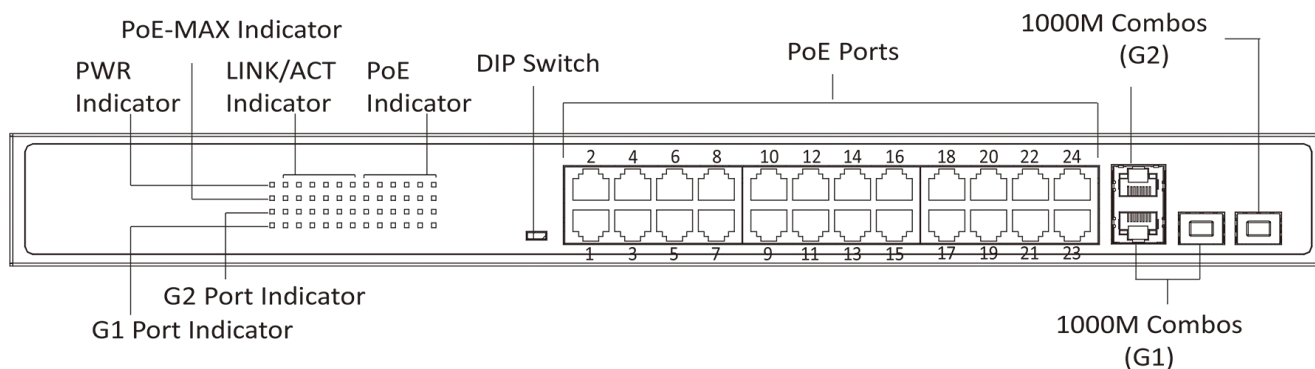


Figure 1-2 DS-3E0326P Front Panel

Indicator

Indicators are used to monitor the status of switches. See the following table for the description of the indicators.

Table 1-2 Indicator Description

Indicator	Status	Description
PWR indicator	Solid	The switch is powered on normally.
	Unlit	No power supply connected or power supply is abnormal.
G1/G2 indicator	Solid	The 1000M combo is connected.
	Flashing	The 1000M combo is transmitting data.

	Unlit	No 1000M combo connected or connection 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-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.

DIP Switch

DIP switch can be switched to three statuses: standard model, extend model, and aggregation model.

Table 1-3 DIP Switch Model

Model	Function
Standard	The corresponding port supports network transmission of up to 100 m, and the speed rate of the port is 100 Mbps.
Extend DS-3E0318P: Extend (9-16) DS-3E0326P: Extend (17-24)	The 9 to 16 ports of DS-3E0318P and the 17 to 24 ports of DS-3E0326P support network transmission of up to 250 m, and the speed rate of the port is 10 Mbps.
Aggregation (G1-G2)	The aggregation function of the corresponding port is enabled, and the 1000M port link aggregates. The two physical ports become a logical port with 2G bandwidth.

PoE Ports

100M PoE ports connect to other PoE devices with network cable.



NOTE

Ensure that your devices powered via the PoE port have their shells protected and fire-proofed, because the switches are not compliant with the Limited Power Source (LPS) standard.

1000M Combos

- When connected to a network cable, the 1000M combo is a PoE port. When plugged into with an optical module and connected to an optical fiber, the 1000M combo functions as a fiber optical interface.

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

1.3.2 Rear Panel

Rear panel of DS-3E0318P and DS-3E0326P is shown as below.

Rear Panel of DS-3E0318P and DS-3E0326P



Figure 1-3 DS-3E0318P and DS-3E0326P Rear Panel

Grounding Terminal

The grounding terminal connects with ground cable in case of lightning. For details about grounding, see section *Grounding*.

Power Interface

Connect power interface of the switch with power socket by power cord, and use 220 VAC to provide power to the switch.



Please use the original power cord to power up the switch.

Chapter 2 Installation

2.1 Preventive and Cautionary Tips

- Put on anti-static gloves before installation.
- During the installation, power off your switch.
- Use the attached power adapter or power cord to connect the switch to power supply.
- The input voltage range must be consistent with the voltage range of the power adapter and switch.
- Ensure the switch is installed in a well-ventilated position.
- Do not open or dismantle the shell of the switch.
- Cut off power supply before cleaning the switch. Do not clean the switch with any liquid.
- Keep the switch away from power line, electric light, and power grid.

2.2 Working Environment Requirements

2.2.1 Temperature and Humidity

In order to ensure normal working and operation life of the switch, room temperature and humidity must be kept at certain level.

- If room humidity is too high for a long time, insulating materials may be ineffective or even lead to electricity leakage, mechanical performance of materials may change, and metal components may be rust, etc.
- If relative humidity is too low in the room, insulating gaskets may shrink, which leads to the loosening of screws and static electricity, and damages circuit of your switch.
- If room temperature is too high for a long time, insulating materials may be aging in a fast speed, which substantially reduces the reliability of your switch and seriously impacts its operation life.

2.2.2 Static Electricity Protection

Dust may lead to electrostatic adsorption. To protect the device from static electricity harm, pay attention to the following requirements:

- Keep the environment air clean. A regular dusting is necessary.
- Make sure the device is grounded well.

2.2.3 Lightning Protection

In thunderstorm weather, a sudden strong current may damage the switch. To protect your switch from lightning strike or strong current, please:

- Make sure the switch, rack, installation desktop, and power socket on the wall all are well-grounded.
- Route the switch cables properly.
- If you need to route cables outdoors, it is advised to use a lightning arrester.

2.2.4 Installation Position

No matter whether your switch is installed on a rack or desktop, follow the instructions below:

- Make sure the rack or desktop be stable and firm enough.
- The room must be well-ventilated. Keep at least 10 cm distance between all sides for cooling.
- Do not place any heavy or big-size object on the switch.
- Keep at least 1.5 cm vertical distance between each switch while installing it on a rack.

2.3 Installation

DS-3E0318P and DS-3E0326P switches support rack installation. Follow the steps below for rack installation.



NOTE

The following panel is the front panel of the switch. For details about the ports, see section *Appearance*.

Step 1 Check the grounding and stability of the rack.

Step 2 Use the attached screws to fix two L-shaped brackets to the sides of the switch.

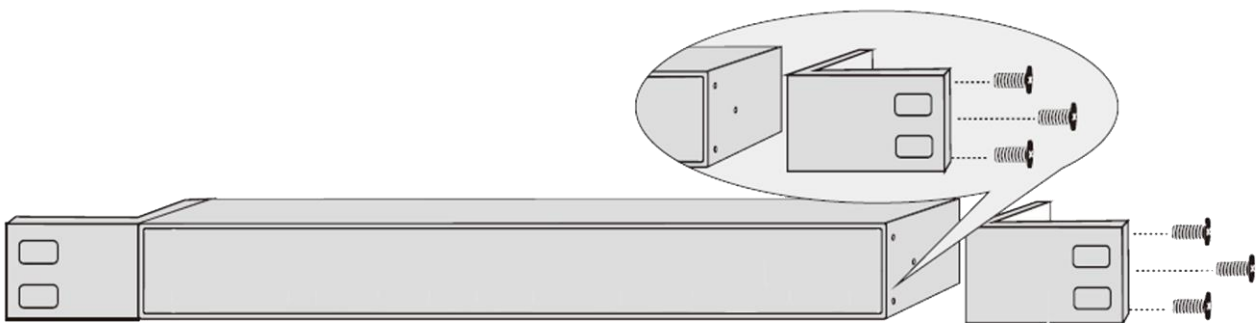


Figure 2-1 Install L-Shaped Bracket

Step 3 Place your switch on the rack, fix it to the rack with self-prepared screws, and ensure the stable installation of your switch to the rack.

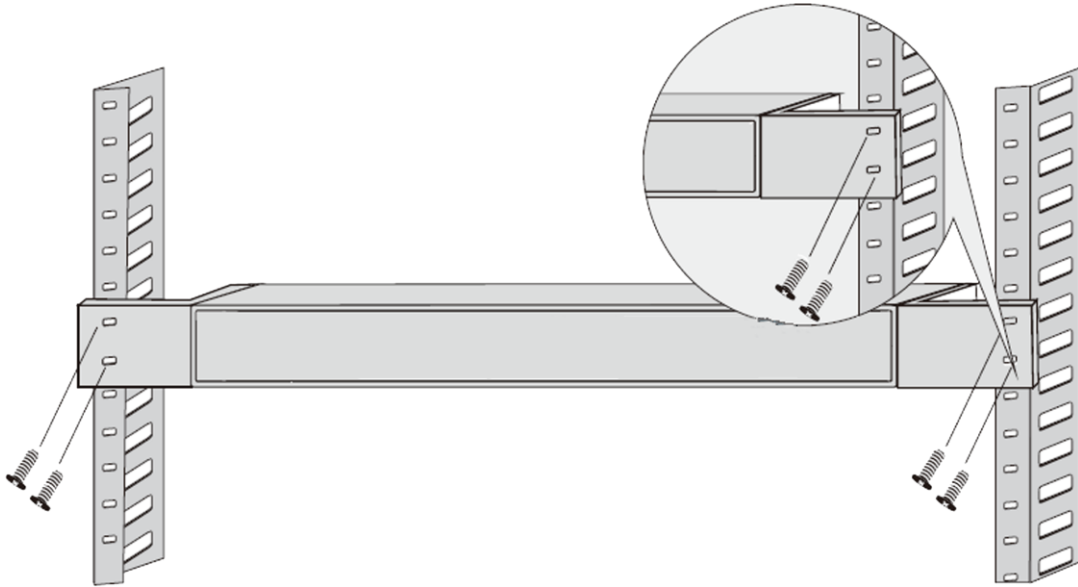


Figure 2-2 Fix Switch to Rack

 NOTE

- Do not place any heavy object on the switch in case of any incident.
- Make sure sound cooling and ventilation.

2.4 Grounding

Purpose:

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.

2.4.1 With Grounding Bar

If a grounding bar is available at the installation site, follow the steps below.

Step 1 Connect one end of the grounding cable to the binding post on the grounding bar.

Step 2 Connect the other end of the grounding cable to the switch grounding terminal and fix the screw.

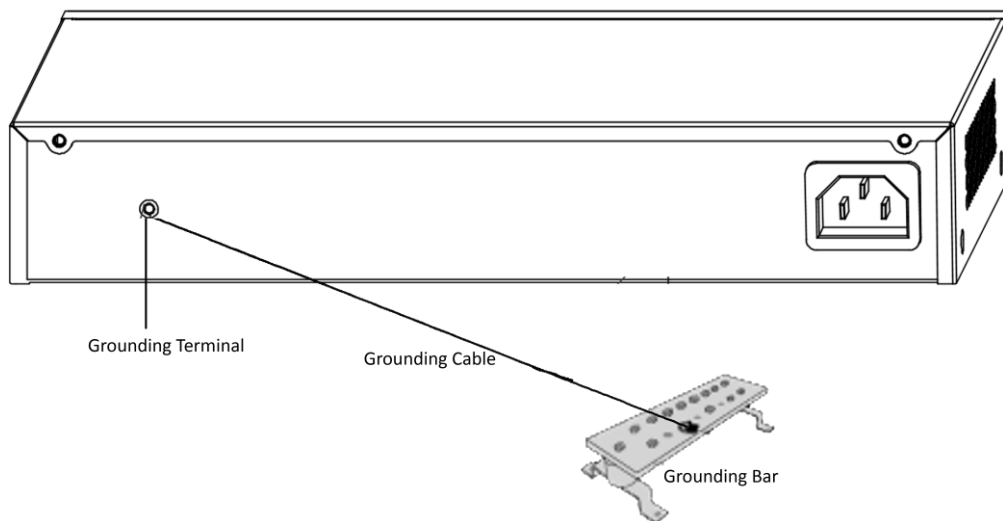


Figure 2-3 Grounding with Grounding Bar

2.4.2 Without Grounding Bar

Purpose:

If there is no grounding bar but earth is nearby and the grounding body is allowed to be buried, follow the steps below.

Step 1 Bury an angle steel or steel pipe (≥ 0.5 m) into the mud land.

Step 2 Weld one end of the grounding cable to the angle steel or steel pipe and embalm the welding point via electroplating or coating.

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

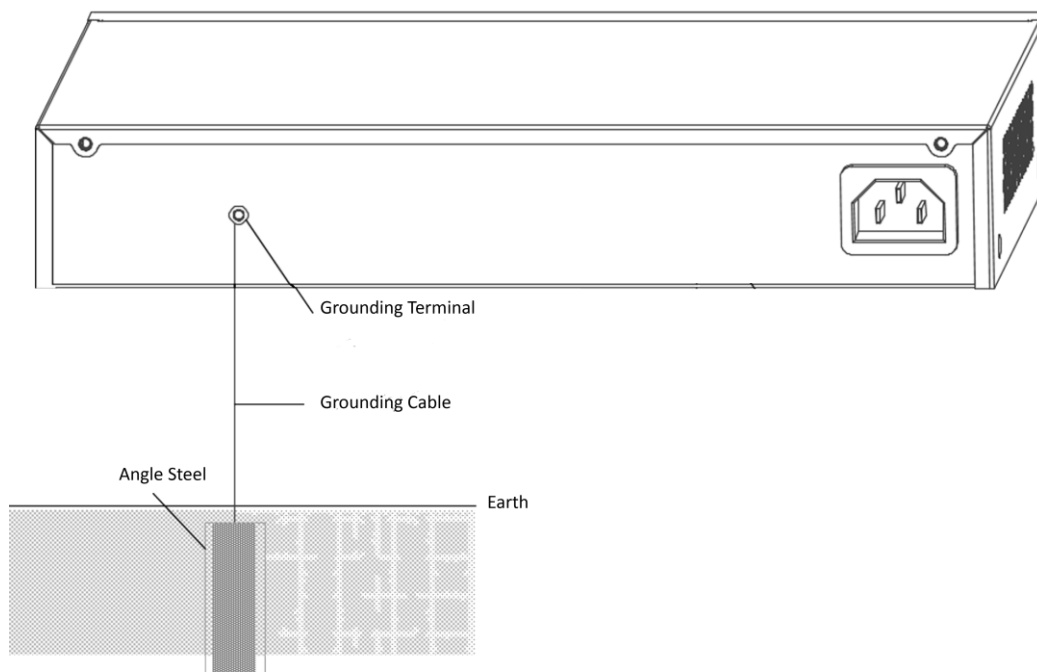


Figure 2-4 Grounding with Angle Steel

Chapter 3 Physical Connection

3.1 Connecting RJ45 Port

Use a network cable to connect your switch to the RJ45 port of an opposite end device. The RJ45 port can connect with network camera, IP camera, NVR, switch, etc.

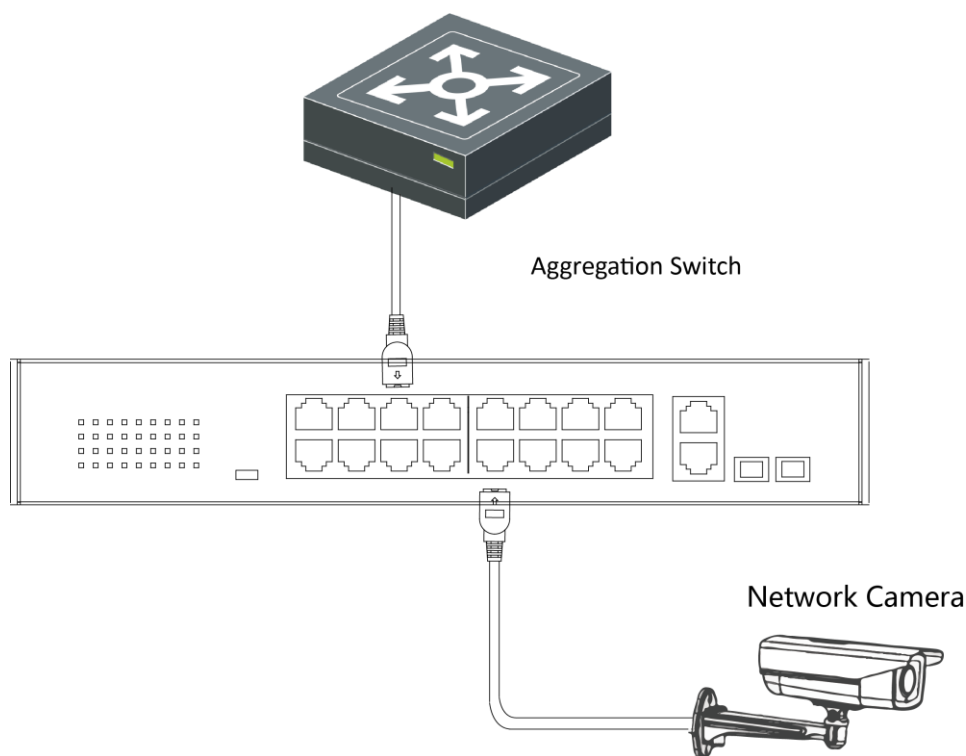


Figure 3-1 RJ45 Port Connection

3.2 Connecting 1000M Combos

This section uses dual-fiber SFP optical module as an example.

WARNING

When connected to a network cable, the 1000M combo is a PoE port. When plugged into with an optical module and connected to an optical fiber, the 1000M combo functions as a fiber optical interface.

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

Do not bend fiber optic (curvature radius ≥ 10 cm) overly.

Do not look directly at fiber optic connector because laser is harmful to eyes.

Step 1 Connect the two paired SFP optical module with an optical fiber.

Step 2 Hold SFP optical module from one side, and smoothly plug it into the switch along with the SFP port slot until optical module and the switch are closely attached.

Step 3 After powering on your switch, 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 opposite devices have been started. For more details, see section *Indicator*.

3.3 Checking the Cabling

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 lightning arrester to the cable.

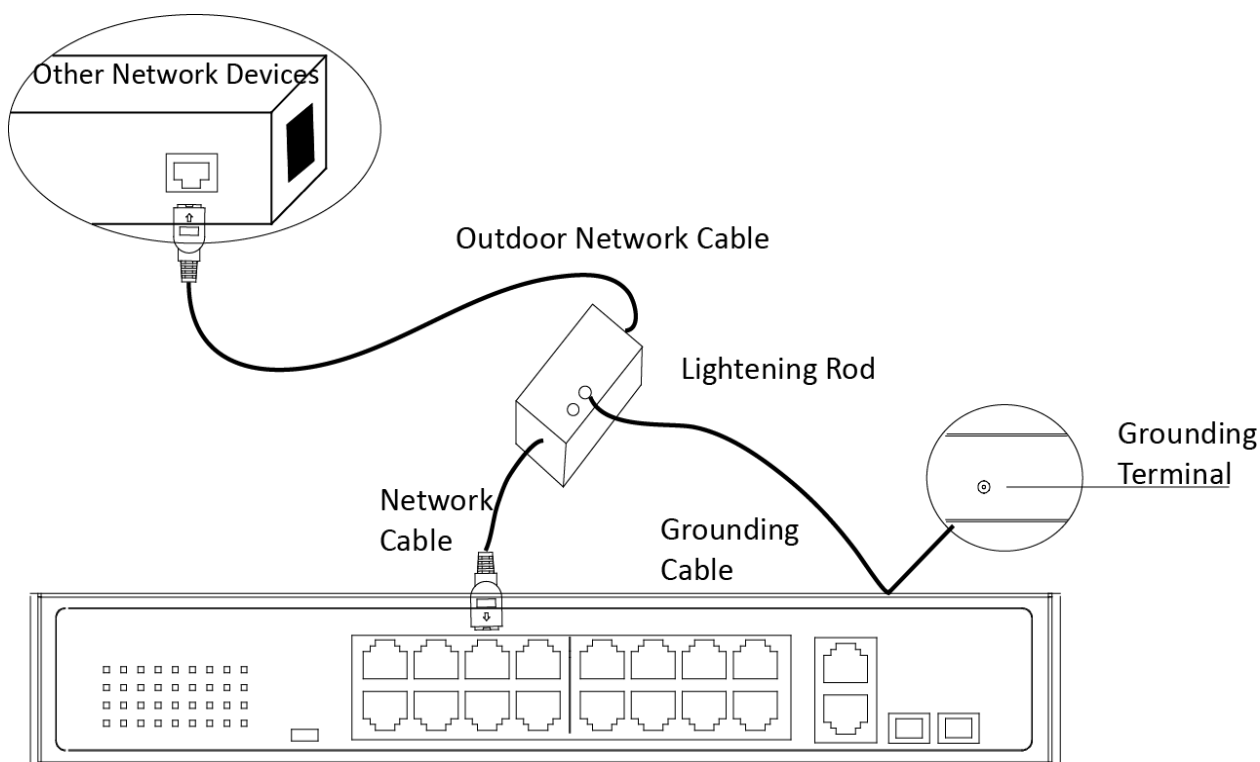
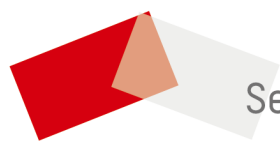


Figure 3-2 Lightning Rod Connection

3.4 Powering on Switch

Please use the attached power cord to power up the switch.



See Far, Go Further