

The background features a large, stylized graphic of a camera lens or sensor array. It consists of several concentric, semi-circular rings in shades of gray and red. On the left side, there are several rows of small, red, rectangular elements, resembling a sensor grid or a series of optical filters. The overall design is modern and technical.

**HIKVISION**

**DS-3E0108P-E, DS-3E0109P-E/M, DS-3E0318P-E/M, DS-3E0326P-E/M  
Switch**

**User Manual**  
*UD.6L0103D0392A01*

## User Manual

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About this Manual

This Manual is applicable to DS-3E0108P-E, DS-3E0109P-E/M, DS-3E0318P-E/M, and DS-3E0326P-E/M.

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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## Safety Instruction

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss.

The precaution measure is divided into “Warning” and “Caution”

**Warning:** Serious injury or death may occur if any of the warning is neglected.

**Caution:** Injury or equipment damage may occur if any of the caution is neglected.

	
<b>Warning</b> Follow these safeguards to prevent serious injury or death.	<b>Caution</b> Follow these precautions to prevent potential injury or material damage.



### Warning

- Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.
- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region. Refer to technical specifications for detailed information.
- Input voltage should meet both the SELV (Safety Extra Low Voltage) and the Limited Power Source with 100-240 V AC or 12 V DC according to the IEC60950-1 standard. Refer to technical specifications for detailed information.
- Do not connect several devices to one power adapter as adapter overload may cause over-heating or a fire hazard.
- Make sure that the plug is firmly connected to the power socket.

If smoke, odor or noise rise from the device, turn off the power at once and unplug the power cable, and then contact the service center.

### Preventive and Cautionary Tips

Before connecting and operating your device, please be advised of the following tips:

- Ensure unit is installed in a well-ventilated, dust-free environment.
- Unit is designed for indoor use only.
- Keep all liquids away from the device.
- Ensure environmental conditions meet factory specifications.
- Ensure unit is properly secured to a subrack or shelf.
- Major shocks or jolts to the unit as a result of dropping it may cause damage to the sensitive electronics within the unit.
- Use the device in conjunction with an UPS if possible.
- Power down the unit before connecting and disconnecting accessories and peripherals.
- A factory recommended HDD should be used for this device.
- Improper use or replacement of the battery may result in hazard of explosion. Replace with the same or equivalent type only. Dispose of used batteries according to the instructions provided by the battery manufacturer.

Thank you for purchasing our product. If there is any question or request, please do not hesitate to contact dealer.

The figures in the manual are for reference only.

This manual is applicable to the models listed in the following table.

<b>Model</b>
DS-3E0108P-E
DS-3E0109P-E/M
DS-3E0318P-E/M
DS-3E0326P-E/M

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# Chapter 1 Product Overview

## 1.1 Overview

### DS-3E0108P-E

Hikvision unmanaged PoE switch, DS-3E0108P-E, provides 8 \* 100 Mbps RJ45 ports, and ports 1 – 4 can provide power to IEEE 802.3af/IEEE 802.3at standard powered devices, such as access point, IP camera, IP phone and so on. The power output totals 58 W.

### DS-3E0109P-E/M

Hikvision unmanaged PoE switch, DS-3E0109P-E/M, provides 8 \* 100 Mbps downlink RJ45 ports, and one 100 Mbps uplink RJ45 port. Ports 1 - 8 can provide power to IEEE 802.3af/IEEE 802.3at standard powered devices, such as access point, IP camera, IP phone and so on. The power output totals 58 W.

### DS-3E0318P-E/M



Hikvision unmanaged PoE switch, DS-3E0318P-E/M provides 16 \* 100 Mbps downlink RJ45 ports, one 1000 Mbps uplink RJ45 port, and one 1000 Mbps independent uplink SFP port. Ports 1 - 16 can provide power to IEEE 802.3af/IEEE 802.3at standard powered devices, such as access point, IP camera, IP phone and so on. The power output totals 135 W.

### DS-3E0326P-E/M

Hikvision unmanaged PoE switch, DS-3E0326P-E/M, provides 24 \* 100 Mbps downlink RJ45 ports, one 1000 Mbps uplink RJ45 port, and one 1000 Mbps independent uplink SFP port. Ports 1 - 24 can provide power to IEEE 802.3af/IEEE 802.3at standard powered devices, such as access point, IP camera, IP phone and so on. The power output totals 225 W.

In addition, DS-3E0109P-E/M, DS-3E0318P-E/M and DS-3E0326P-E/M are equipped with a network mode switch. DS-3E0109P-E/M can enable/disable EXTEND mode by flipping the switch between EXTEND ON and EXTEND OFF. DS-3E0318P-E/M and DS-3E0326P-E/M can use this switch to change the network mode to Priority, Standard, Isolate, or EXTEND.

## 1.2 Packing List

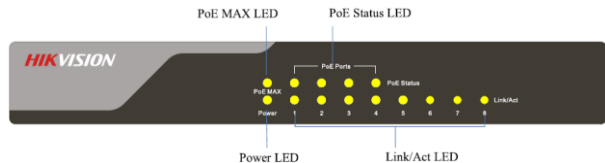
Model	DS-3E0108P-E	DS-3E0109P-E/M	DS-3E0318P-E/M	DS-3E0326P-E/M
 Switch *Take DS-3E0109P-E/M as an example	√	√	√	√
 Pads	√	×	√	√

	L-shaped bracket	×	×	√	√
	Power adapter	√	√	×	×
	Power cord	√	√	√	√
	Expansion bolt	√	√	×	×
	Screw	√	×	3 Pairs	3 Pairs
	User manual	√	√	√	√

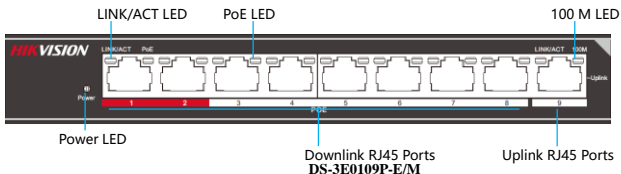
If any item is missing, or damaged, please keep the original package and contact the local reseller or distributor immediately.

## 1.3 Appearance

### Front Panel



**DS-3E0108P-E**



**Downlink RJ45 Ports  
DS-3E0109P-E/M**

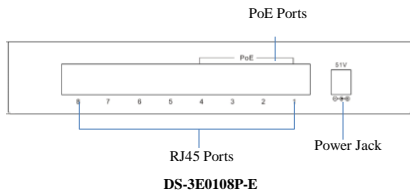
**Uplink RJ45 Ports**

#### LED Indicator

Specific description of the LED indicators is shown as following:

LED	State	Description
Power	Solid on	The switch is connected to a power supply properly.
	Off	The switch is not connected to a power supply properly or not connected to a power supply.
PoE Max *Available only on DS-3E0108P-E	Solid on	The PoE power output reaches the alarm threshold, and the powered device is powered properly.
	Blinking	The PoE power output reaches the maximum power, and some of power devices are not powered properly.
	Off	The PoE power output does NOT reach the alarm threshold, and the powered device is powered properly.
PoE Status	Solid on	The port is connected to a powered device and is supplying power.
	Blinking	The PoE output of the port exceeds 40 W.
	Off	The port is not supplying power or not connected to a powered device.
Link/Act	Solid on	The port is connected properly.
	Blinking	The port is transmitting data.
	Off	The port is not connected properly or not connected to a device.
100 Mbps *Available only on DS-3E0109P-E/M	Solid on	The transmission rate of this port is 100 Mbps.
	Off	The transmission rate of this port is 10 Mbps when the LINK/ACT LED of corresponding port lights up. The port is not connected to a device when the LINK/ACT LED of corresponding port is off.

## Rear Panel







## RJ45 Port

DS-3E0108P-E provides 8 \* 10/100 Mbps RJ45 ports, and ports 1 - 4 comply with IEEE 802.3af and IEEE 802.3at. DS-3E0109P-E/M provides 9 \* 10/100 Mbps RJ45 ports. Ports 1 - 8 are downlink ports and comply with IEEE 802.3af and IEEE 802.3at. Port 9 is uplink port. Ports 1-2 of DS-3E0109P-E/M are default high-priority ports.

## Power Jack

The power jack is used to connect the switch to a power supply using the included power core.

## Grounding Terminal

Used for connecting the grounding cable for lightning protection. For details, refer to section [“2.3 Grounding”](#).

## EXTEND Mode Switch

State	Description
EXTEND OFF	Standard mode. In this mode, the maximum transmission rate of ports 1 - 8 is 100 Mbps, and the maximum transmission distance is 150 meters.
EXTEND ON	EXTEND mode. In this mode, the maximum negotiation rate of ports 1 - 8 reduces to 10 Mbps, and the maximum transmission distance is 250 meters.

To ensure that the performance of the switch in EXTEND mode, use CAT 5e or better Ethernet cables and set the speed and duplex of the peer device to **Auto Negotiation**.

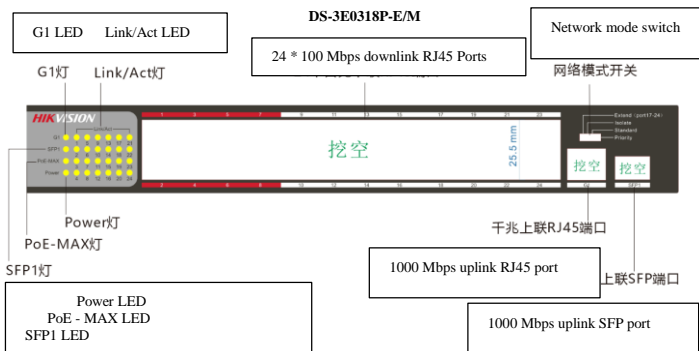
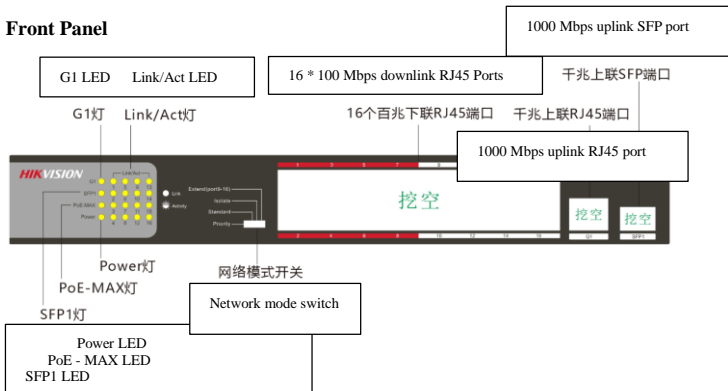
In EXTEND mode, to ensure timely video data transmission, set the Data Rate to a value less than 8 Mbps.



### Note

To avoid damage to the switch, use the included power adapter and power core for power supply.

## Front Panel



## LED Indicator

Specific description of the LED indicators is shown as following:

LED	State	Description
Power	Solid on	The switch is connected to a power supply properly.
	Off	The switch is not connected to a power supply properly or not connected to a power supply.

PoE Max	Solid on	The PoE power output reaches the alarm threshold, and the powered device is powered properly.
	Blinking	The PoE power output reaches the maximum power, and some of power devices are not powered properly.
	Off	The PoE power output does NOT reach the alarm threshold, and the powered device is powered properly.
Link/Act	Solid on	The port is connected properly.
	Blinking	The port is transmitting data.
	Off	The port is not connected properly or not connected to a device.
G1	Solid on	The port is connected to a device.
	Blinking	The port is transmitting or receiving data.
	Off	The port is not connected or not connected to a device properly.
SFP1	Solid on	The port is connected to a device.
	Off	The port is not connected or not connected to a device properly.

## RJ45 Port

DS-3E0318P-E/M provides 17 RJ45 ports and ports 1 - 16 are 10/100 Mbps downlink ports and comply with IEEE 802.3af and IEEE 802.3at. Port G1 is 10/100/1000 Mbps uplink port.

DS-3E0326P-E/M provides 25 \* RJ45 ports and ports 1 - 24 are 10/100 Mbps downlink ports and comply with IEEE 802.3af and IEEE 802.3at. Port G1 is 10/100/1000 Mbps uplink port.

Ports 1 - 8 of DS-3E0318P-E/M and DS-3E0326P-E/M are default high-priority ports.

## SEP Port

DS-3E0318P-E/M and DS-3E0326P-E/M respectively provide an independent gigabit SFP optical module port, which can connect to gigabit SFP optical module.



### Note

No SFP optical module is included in the switch package. Prepare the module yourself if it is required.

## Network Mode Switch

Both DS-3E0318P-E/M and DS-3E0326P-E/M support four network modes: Priority, Standard, Isolate and Extend.

### Priority

In this mode, the switch optimizes the cache capability of the ports. Ports 1 - 8 are high-priority ports, and all ports can

communicate with each other.

When several IP cameras are connected to the switch, this mode is recommended. To ensure the fluency of the monitoring pictures, connect the G1 port and SFP1 port to the uplink device connected to a monitoring computer.

#### Standard

Default mode. In this mode, the switch is an ordinary switch, and all ports can communicate with each other.

#### Isolate

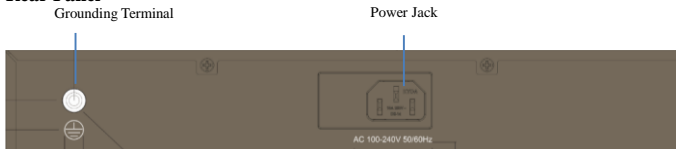
In this mode, all downlink ports of the switch cannot communicate with each other and can only communicate with G1 port and SFP port respectively.

#### Extend

In this mode, all ports can communicate with each other. In addition, the transmission rate of the ports 9 - 16 of DS-3E0318P-E/M and ports 17 - 24 of DS-3E0326P-E/M reduces to 10 Mbps. The maximum transmission distance is up to 250 meters.

In EXTEND mode, to ensure timely video data transmission, set the Data Rate to a value less than 8 Mbps.

## Rear Panel



DS-3E0318P-E/M or DS-3E0326P-E/M

## Power Jack

The power jack is used to connect the switch to a power supply using the included power core.

## Grounding Terminal

Used for connecting the grounding cable for lightning protection. For details, refer to section [“2.3 Grounding”](#).

# Chapter 2 Device Installation

## 2.1 Installation Notes

Follow the notes below to avoid device damages or personal injuries caused by misoperation.

### Safety Alert

- Wear ESD gloves before installation, and do not power on the switch before finishing installation.
- Use the included power cord to power the switch.
- Make sure that the input voltage matches the value specified on the label of the switch.
- Place the switch in a well-ventilated and dry environment.
- Do not remove the housing of the switch.
- Disconnect the switch from the power supply before cleaning it. Do not scrub the switch with any liquid.
- Position the switch away from powerline, electric lamp, and power system.



#### Note

There is a void sticker covering one of the screws on the housing of the switch. Do not remove the sticker without permission of the local agent, otherwise you shall be responsible for any damage.

---

## Environmental Requirements

### Temperature and Humidity

For the temperature and humidity requirements, refer to "[Appendix Technical Specifications](#)".

### Anti-static Precautions

Electrostatic adsorption occurs if dust falls onto the switch, which may cause poor metal contact that disables the switch to work properly. To prevent this problem, pay attention to the following:

- Keep the air in the ambient environment clean. Regularly perform dedusting.
- Make sure that the switch is grounded properly.

### Lightning Protection

In thunderstorm weather, a sudden current caused by lightning stroke may damage the switch. To protect the switch against lightning stroke or strong current:

- Make sure that the device, workbench or subrack where the switch is mounted and receptacle in the wall are all properly grounded.

- Connect the cables to the switch properly to avoid generating internal lightning induction.
- If outdoor cabling is required, it is advisable to deploy a signal lightning arrester.

### Mounting Requirements

Follow the instructions below.

- The desktop is stable and sturdy enough.
- Place the switch in a clean, dry and well-ventilated environment. Keep at least 10cm gap on all sides for cooling.
- Do not place any heavy or big object on the switch.
- Keep at least 1.5 cm vertical distances between each device while installing it in stack.

## 2.2 Installation

Select a proper mounting type according the product and environment.

### Desktop Mounting

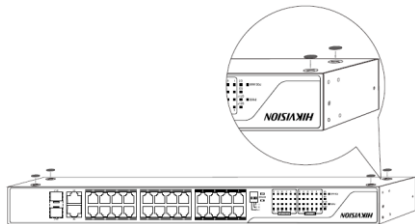
All switches mentioned in this user manual can be mounted on desktops.

#### Procedure

If your switch is DS-3E0109P-E/M, skip step 1 and 2, and directly go to step 3.

**Step 1:** Place the switch upside down on a stable and flat desktop.

**Step 2:** Remove the protective paper on the four sticky sides of the pads and paste the four footpad stickers to the corresponding four recesses on the bottom of the switch.



Take DS-3E0326P-E/M as an example

**Step 3:** Place the switch right side up on the desktop.

### Rack Mounting

If a 19 inch standard subrack is prepared, DS-3E0318P-E/M or DS-3E0326P-E/M can be mounted on subrack.

#### Procedure

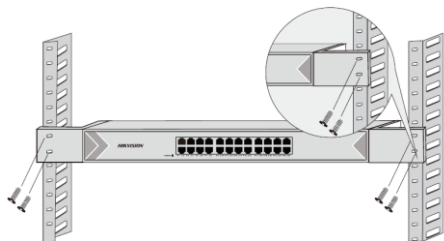
**Step 1:** Ensure that the subrack is stable and level, and properly grounded.

**Step 2:** Fix L-shaped brackets to the switch with screws. See the following figure.



Take DS-3E0326P-E/M as an example

**Step 3:** Mount the switch at a proper height on the subrack with screws and fix the switch to the subrack with screws.



Take DS-3E0326P-E/M as an example

## Wall Mounting

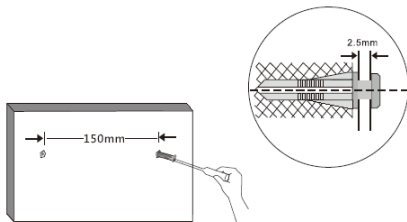
\* Applicable only to DS-3E0108P-E or DS-3E0109P-E/M.

### Procedure

**Step 1:** Create two horizontally aligned holes about 6 mm in diameter with percussion drill. The distance between the two holes should be 150 mm for DS-3E0108P-E and 113.5mm for DS-3E0109P-E/M.

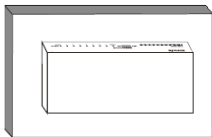
**Step 2:** Knock the expansion bolts into the holes with the rubber hammer until the expansion bolts are flush with the wall.

**Step 3:** Fix the screws with the Phillips screwdriver and keep at least 2.5mm distance between the inner edge of the screw head and the outer edge of the expansion bolt to ensure that the switch can be hung on the screws firmly.



**Step 4:** Align the two hanging holes in the housing of the switch with the screws, and hook the switch firmly onto the

screws.



## 2.3 Grounding

Grounding is not only a measure to release the overvoltage and overcurrent caused by lightning as soon as possible, but also for personal safety. Select the proper method to ground your switch according to the installation environment.



### Note

DS-3E0108P-E has no grounding terminal. So if your switch is DS-3E0108P-E, skip this part.

### With the grounding bar

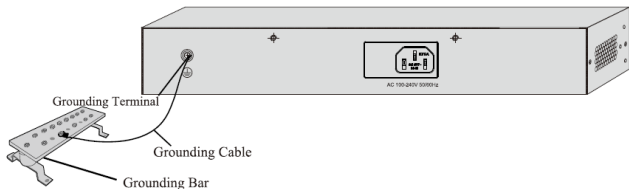
If a grounding bar is available at the installation site, use either of the following installation methods to ground the switch.

#### A. Connect the switch to the grounding bar directly.

##### Procedure

**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 grounding terminal and fasten the screw.



Take DS-3E0326P-E/M as an example

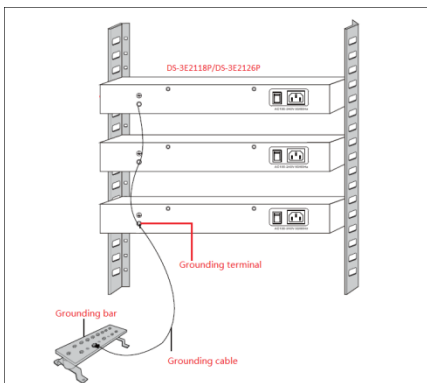
#### B. Connect the switch to another grounded device.

##### Procedure

**Step 1:** Connect one end of the grounding cable to the grounding terminal of a grounded device and fasten the screw.

**Step 2:** Connect the other end of the grounding cable to the grounding terminal and fasten the screw.





Take DS-3E0326P-E/M as an example

**Note**

Connect the grounding cable to the grounding system in the equipment room. Do not connect it to a fire main or lightning rod.

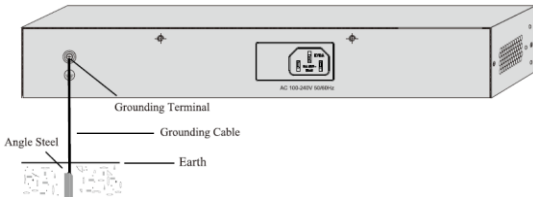
**Without the grounding bar**

If there is no grounding bar but the grounding body can be buried, follow steps below:

**Step 1:** Bury an angle steel or steel pipe (Length  $\geq 0.5$  m) into the land.

**Step 2:** Weld one end of the grounding cable to the angle steel or steel pipe and protect the welding point against corrosion (electroplating or coating).

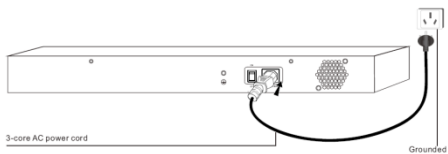
**Step 3:** Connect the other end of the grounding cable to the grounding terminal.



Take DS-3E0326P-E/M as an example

If both ground bar and the environment for burying the grounding body are not available, use the protecting earth (PE) wire.

Make sure that the switch adopts 3-core cable with the PE wire, and the PE wire of the AC power supply has been well grounded in the power distribution room or at the side of the AC power supply transformer.



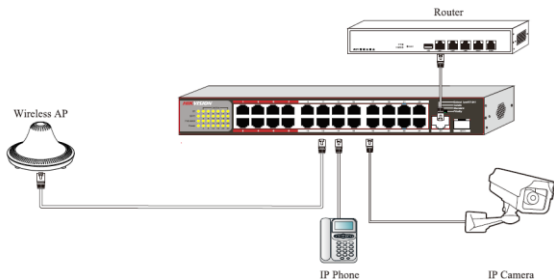
Take DS-3E0326P-E/M as an example

# Chapter 3 Physical Connection

## RJ45 Port Connection

Connect the RJ45 ports of the switch to the RJ45 ports of peer devices. The ports marked with “Uplink” and “G1” are the uplink ports, and the other ports are downlink ports. All ports of DS-3E0108P-E are ordinary RJ45 ports, not being divided into uplink and downlink ports.

Ports 1 - 4 of DS-3E0108P-E and all downlink ports of DS-3E0109P-E/M, DS-3E0109P-E/M, and DS-3E0326P-E/M support PoE power supply, and can provide power for IEEE 802.3af and IEEE 802.3at powered devices, such as AP, IP phone, IP camera, and so on.



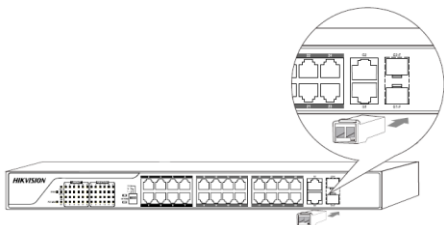
The switch supports auto MDI/MDIX. That is, you can use straight-through cable or crossover cable to connect the switch to the peer device. CAT 5 or better Ethernet cable is recommended.

## SFP Port Connection

### Procedure

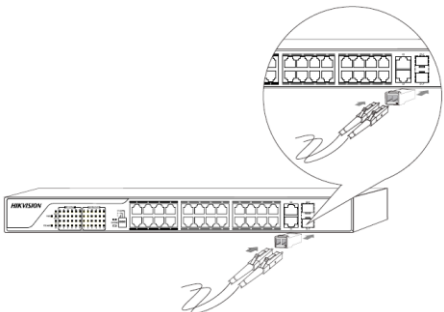
\* Available only on DS-3E0318P-E/M and DS-3E0326P-E/M.

**Step 1:** Connect your optical module to the SFP port. Ensure that the direction of the optical module is correct.



Take DS-3E0326P-E/M as an example

**Step 2:** Connect the Rx module to Rx port and Tx module to Tx port.

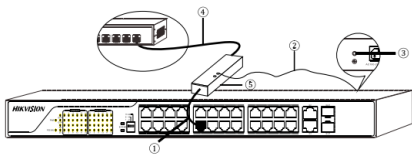


Take DS-3E0326P-E/M as an example

## Checking

Before powering on the switch, check the cabling as follows.

- The power supply should accord with the rated input standard.
- Port cables and grounding cable are correctly connected.
- If an outdoor cable is required, connect a lightning protector to the cable before you connect the cable to the port.



Take DS-3E0326P-E/M as an example/Lightning protector connection

- ① Ethernet cable    ② Grounding cable    ③ Grounding terminal    ④ Outdoor cable  
⑤ Lightning protector

## Power Supply

Use the included power cord to power the switch.

# **Appendix Technical Specifications**

Model		DS-3E0108P-E	DS-3E0109P-E/M	DS-3E0318P-E/M	DS-3E0326P-E/M
Port	10/100 Mbps RJ45	8	9	16	24
	10/100/1000 Mbps RJ45	/	/	1	
	1000 Mbps SFP	/	/	1 independent	
	High-priority Port	Port 1 > Port 2 > ... > Port 8	Port 1 - 2	Port 1 - 8	
	Lightning-proof Ranking	/	6 kV		
	Working Mode	/	EXTEND OFF, EXTEND ON	Priority, Extend	Standard, Isolate,
Performance	Store-and-forward	Supported			
	MAC Address Table	1 k	4 k		
	MAC Learning	Auto-learning/ Auto-aging			
	Switching Capacity	1.6 Gbps	1.8 Gbps	7.2 Gbps	8.8 Gbps
PoE Power	PoE standard	IEEE 802.3af, IEEE802.3at			
	PoE Powering Mode	Two pair of wires: pins 1 and 2, and pins 3 and 6	Supports 8-pin power supply		
	PoE Port	1 - 4	1 - 8	1 - 16	1 - 24
	Maximum Port Output	30 W			

	Maximum Total Output	58 W	135 W	225 W
Power Input		51 V DC , 1.25 A	100~240 V AC , 50/60 Hz	
Environment	Operating Environment	Operating Temperature: 0 °C ~ 40 °C Operating Humidity: 10% - 90% RH non-condensing		
	Storage Environment	Storage Temperature: -40 °C ~ 70 °C Storage Humidity: 5% - 90% RH non-condensing		
Transmission Speed		Ethernet: 10 Mbps (Half Duplex) / 20 Mbps (Full Duplex) Fast Ethernet: 100 Mbps (Half Duplex) / 200 Mbps (Full Duplex)	Ethernet: 10 Mbps (Half Duplex) / 20 Mbps (Full Duplex) Fast Ethernet: 100 Mbps (Half Duplex) / 200 Mbps (Full Duplex) Gigabit Ethernet: 2000 Mbps (Full Duplex)	
Transmission Medium		Ethernet: Cat 3 or better UTP/STP Fast Ethernet: Cat 5 or better UTP/STP	Ethernet: Cat 3 or better UTP/STP Fast Ethernet: Cat 5 or better UTP/STP Gigabit Ethernet: Cat 5 or better UTP/STP 1000 Base-SX: MMF (Multimode optical fiber) 1000 Base-LX: MMF (Multimode optical fiber) or SMF (Single Mode Fiber)	
Network Standard		IEEE 802.3, IEEE 802.3u, IEEE 802.3af, IEEE802.3at, IEEE 802.3x	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3af, IEEE 802.3at, IEEE 802.3x, IEEE 802.3z	





### CE Mark Warning

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

NOTE: (1) The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. (2) To avoid unnecessary radiation interference, it is recommended to use a shielded RJ45 cable.

### FCC Statement

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.

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution!

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: (1) The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. (2) To avoid unnecessary radiation interference, it is recommended to use a shielded RJ45 cable.



Caution:

Adapter Model: BN031-A65051

Manufacturer: SHENZHEN HEWEISHUN NETWORK TECHNOLOGY CO., LTD.

Input: 100-240 V AC, 50/60 Hz, 1.5 A

Output: 51 V DC, 1.25 A

--- DC Voltage



RECYCLING

This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment.

User has the choice to give his product to a competent recycling organization or to the retailer when he buys a new electrical or electronic equipment.