



DS-3E2300P Series Ethernet Switch

User Manual

UD03706B

User Manual

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Industry Canada ICES-003 Compliance

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

Preparing for installation

The DS-3E2300P Series Ethernet Switch includes the following models:

| Model | Name |
|------------|-----------------|
| DS-3E2310P | Ethernet Switch |
| DS-3E2318P | |
| DS-3E2326P | |

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. |

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Chapter 1 Overview

The document describes the characteristics and parameters of DS-3E2300P and gives an overview of DS-3E2300P.

1.1 Standard Configuration

DS-3E2310P switch has three parts: 8 IEEE802.3af/at 100M Ethernet Base-T ports, 2 gigabit Base-T ports, 2 combo optical ports and 1 console port, DS-3E2318P switch has three parts: 16 IEEE802.3af/at 100M Ethernet Base-T ports, 2 gigabit Base-T ports, 2 combo optical ports and 1 console port, DS-3E2326P switch has three parts: 24 IEEE802.3af/at 100M Ethernet Base-T ports, 2 gigabit Base-T ports, 2 combo optical ports and 1 console port. See the following table:

Table 1-1 Attributes of necessary ports

| Port | Features |
|------------------------|---|
| Gigabit Ethernet ports | Base-T port: a rate of 10/100/1000M auto-adaptation, cable MDI/MDIX auto-identification, UTP(RJ45) port, with LINK/ACT indicators |
| 100M PoE port | Base-T port: a rate of 10/100M auto-adaptation, MDI/MDIX auto-identification, UTP(RJ45) interface |
| Console port | A rate of 9600bps, RJ45 interface |

1.2 Panel and Interfaces

1.2.1 Front Panel

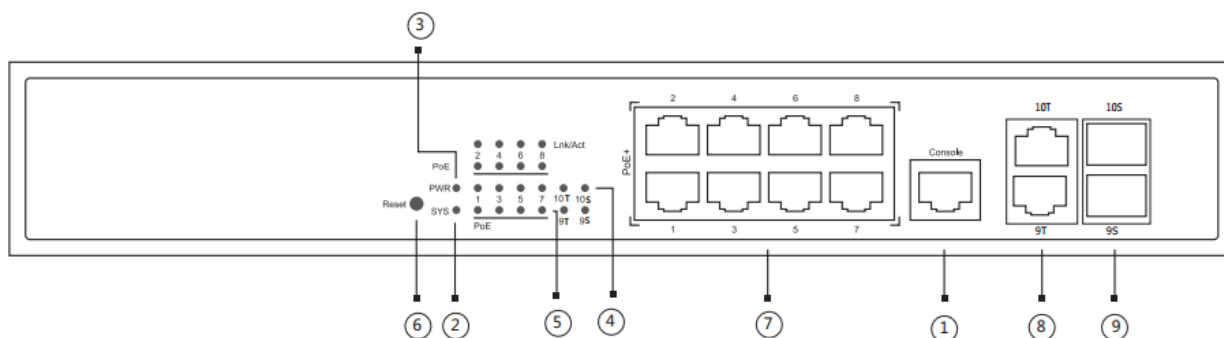


Figure 1-1 Front Panel of the DS-3E2310P Switch

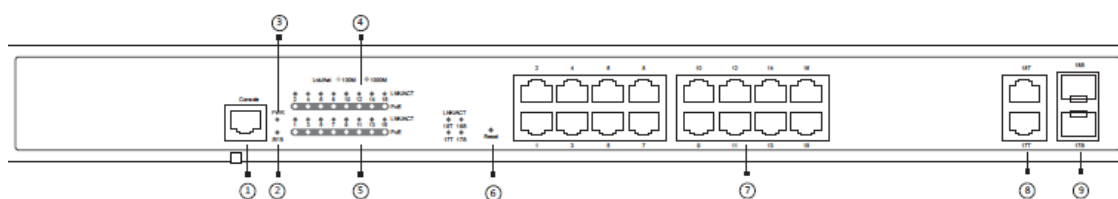


Figure 1-2 Front Panel of the DS-3E2318P Switch

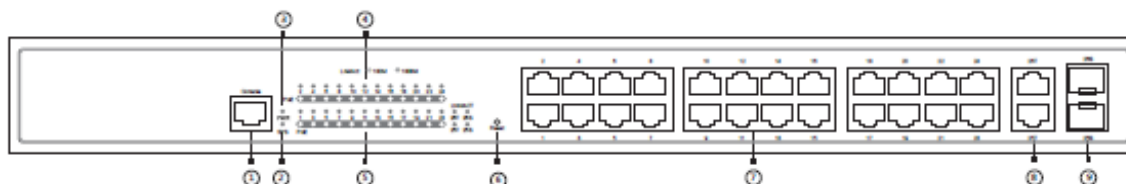


Figure 1-3 Front Panel of the DS-3E2326P Switch

Table 1-2 DS-3E2300P Front Panel Description

| No. | Item | Name | Description |
|-----|---------|--|---|
| 1 | Console | Console port | Manages the switch locally. |
| 2 | SYS | System indicator | If the indicator is always on, the system works normally. |
| 3 | PWR | power indicator | If the switch is powered on, the indicator is on. |
| 4 | Lnk/Act | Lnk/Act indicator corresponding to each port | Green indicator is on: 10/100M is transmitted; Red indicator is on: 1000M is transmitted; No indicator is on: no signal is transmitted. |
| 5 | PoE | PoE indicator corresponding to each port | If the indicator is always on, the PoE works normally. If the indicator is off, the PoE does not work. |
| 6 | Reset | RESET | Resume to the default setting. |
| 7 | / | 16 RJ45 ports | Realizes the PoE function and forwards 10/100M Ethernet electrical signals |
| 8 | / | 2 gigabit RJ45 ports | Realizes the forward of 10/100/1000M Ethernet electrical signals. |
| 9 | / | 2 SFP ports | Realizes the forward of gigabit Ethernet optical signals. |

 NOTE

The DS-3E2300P provides with a grounding column and a power socket.

1.2.2 Rear Panel



Figure 1-4 Rear Panel of the DS-3E2300P Switch

Table 1-3 DS-3E2300P Rear Panel Description

| No. | Name | Remarks |
|-----|----------------------|-----------------------------|
| 1 | The grounding column | The grounding must be fine. |
| 2 | AC power socket | 100~240V AC |

Chapter 2 Installation Preparation

2.1 Cautions

Similar to other electronic products, the semiconductor chip easily gets damaged if you power on and off abruptly and frequently. To restart up the switch of DS-3E2300P, you have to open the power on-off three or five seconds after the power is cut off.

Avoid severe collision or falling down from the height to protect the parts in the switch.

Use correct outside ports to connect the switch of DS-3E2300P. Do not insert the Ethernet plug into the console port (RJ45 8-line socket). Similarly, do not insert the console cable into the console port (RJ45 8-line socket).



NOTE

- When you plug or dial out the power line, keep the power line horizontal with the power socket.
- When the lifetime of our products ends, handle them according to national laws and regulations, or send these products to our company for collective processing.

2.2 Safety Instructions

2.2.1 Safety Principles

- Keep dustless and clean during or after the installation.
- Put the cover at the safe place.
- Put tools at the right place where they are not easily falling down.
- Put on relatively tight clothes, fasten the tie or scarf well and roll up the sleeve, avoiding stumbling the chassis.
- Put on the protective glasses if the environment may cause damage to your eyes.
- Avoid incorrect operations that may cause damage to human or devices.

2.2.2 Safety Notices

The safety notices mentioned here means that improper operation may lead to body damage.

- Read the installation guide carefully before you operate the system.
- Only professionals are allowed to install or replace the switch.
- Please cut off the direct-current connection when you operate the hull or work near the power supply.

- The final configuration of products must comply with relative national laws and regulations.

2.2.3 Safety Principles for Live Working

When you work under electricity, following the following principles:

- Put off ornaments, such as ring, necklace, watch and bracelet, before you operate under live working. When metal articles connect the power to the ground, short circuit happens and components may be damaged.
- Please cut off the direct-current connection when you operate the hull or work near the power supply.
- When the power is on, do not touch the power.
- Correctly connect the device and the power socket.
- Only professionals are allowed to operate and maintain the device.
- Read the installation guide carefully before the system is powered on.
- Check potential dangers, such as the humid floor, ungrounded extensible power line and tatty power line.
- Install the emergent on-off at the working room for turning off the power when trouble happens.
- Plug off the power line before installing or uninstalling the machine box or working beside the power.
- Do not work alone if potential dangers exist.
- Cut off the power before checkout.
- If trouble happens, take the following measures:
 - a) Cut off the system's power.
 - b) Alarm.
 - c) Take proper measures to help persons who are hit by the disaster. Artificial respiration is needed if necessary.
 - d) Seek for medical help, or judge the loss and seek for available help.

2.2.4 Electrostatic Discharge Damage Prevention

Electrostatic discharge may damage devices and circuits. Improper treatment may cause the switch to malfunction completely or discontinuously.

Move or locate the devices according to the measures of electrostatic discharge prevention, ensuring the machine box connects the ground. Another measure is to wear the static-proof hand ring. If there is no hand ring, use the metal clip with the metal cable to clip the unpainted metal part of the machine box. In this case, the static is discharged to the ground through the metal cable of the clip. You can also discharge the static to the ground through your body.

2.3 Requirements for Common Locations

This part describes the requirements for the installation locations.

2.3.1 Environment

DS-3E2300P switch adopts the wall-mounted installation mode. The switch has no fan, so an environment with good ventilation is needed for the heat cooling of the switch.

For location planning and device locating, refer to section 2.3.2 “Location Configuration Prevention”.

2.3.2 Location Configuration Prevention

The following preventive measures assist you to design the proper environment for the switch.

- Make sure that the workshop is well-ventilated, the heat of TX devices is well-discharged and sufficient air circulation is provided for device cooling.
- Put the chassis at the place where cool air can blow off the heat inside the chassis. Make sure the chassis is sealed because the opened chassis will reverse the cool air flow.

2.3.3 Cabinet Configuration

The following content assists you to make a proper cabinet configuration:

- Each device on the cabinet gives off heat when it runs. Therefore, the sealed cabinet must have the heat-discharge outlet and the cooling fan. Do not put the devices too close, avoiding bad ventilation.
- When you install the chassis at the open cabinet, prevent the frame of the cabinet from blocking the airway of the chassis.
- Ensure that nice ventilation is provided for the devices installed at the bottom of the cabinet.
- The clapboard separates exhaust gas and inflow air, and boost the cool air to flow in the chassis. The best location of the clapboard is decided by the air flow mode in the chassis, which can be obtained through different location tests.

2.3.4 Power Requirements

Make sure that the power supply has nice grounding and the power at the input side of the switch is reliable. The voltage control can be installed if necessary. At least a 240 V, 10A fuse or a breaker is provided in the phase line if you prepare the short-circuit prevention measures for a building.



If the power supply system does not have good grounding, or the input power disturbs too much and excessive pulses exist, the error code rate of communication devices increases and even the hardware system will be damaged.

2.4 Installation Tools and Device

The tools and devices to install the DS-3E2300P switch are not provided by the DS-3E2300P switch. You yourself need to prepare them. The following are the tools and devices needed for the typical installation of the DS-3E2300P switch:

- Screwdriver
- Static armguard
- Bolt
- Ethernet cable
- Other Ethernet terminal devices
- Control terminal

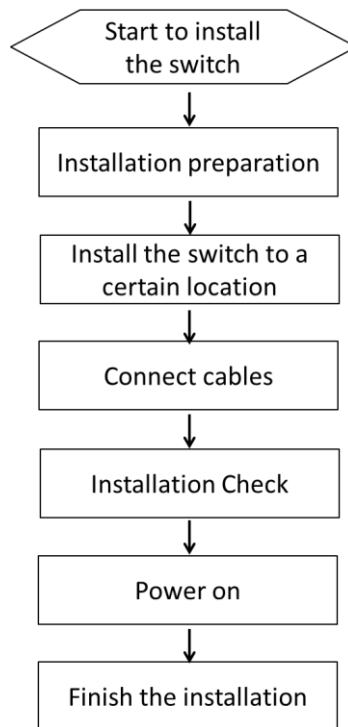
Chapter 3 Installing the DS-3E2300P Switch



NOTE

Only professionals are allowed to install or replace the devices of the switch.

3.1 Installation Procedures of DS-3E2300P



3.2 Installing the Chassis of DS-3E2300P

The chassis of the switch can be put on the desk or fixed to the cabinet. Your network installation requirements can be met if you conduct the operations according to the following procedure. It can be described in the following two parts:

- Installing the Chassis on the Desk
- Installing the Chassis on the Cabinet

3.2.1 Installing the Chassis on the Desk

The DS-3E2300P switch can be directly put on the smooth and safe desk.

 **NOTE**

Do not put things weighing 4.5 kg or over 4.5 kg on the top of the switch.

3.2.2 Installing the Chassis on the Cabinet

The chassis of the switch is fixed to the cabinet through the fixing mouth. When operation it is enough to fix the back template of the switch through the fixing mouth to the cabinet.

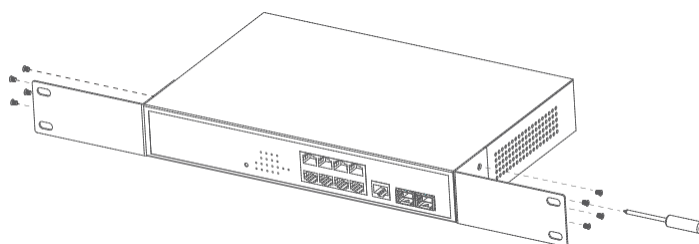


Figure 3-1 Fixing the machine box of the switch

After the brackets are installed, install the switch on the cabinet. See Figure 3-2.

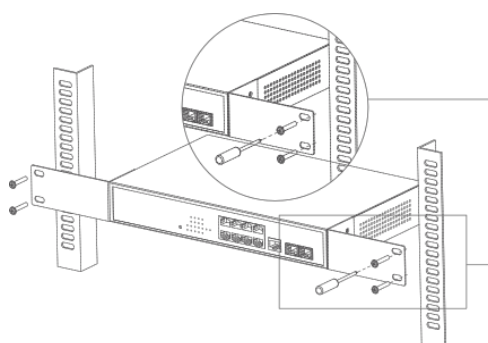


Figure 3-2 Installing the switch on the cabinet

3.3 Connecting the Port

3.3.1 Connecting the Console Port

The switch of DS-3E2300P has a Console port. The rate of the console port is a value of 1200bps-115200bps. It has a standard RJ45 plug. After you connect the console port to the serial port of PC through a console cable, you can configure and monitor the switch of DS-3E2300P by running a terminal emulation software, such as super Windows terminal. The cable is provided according to the host. The communication parameters of the terminal serial port can be set to a rate of 9600bps, eight data bits, one stop bit, no sum check bit and traffic control.

The RJ45 connector of the console port is shown in the following figure. The RJ45 plug corresponds to the RJ45 socket, whose pins can be aligned from left to right with the value from 1 to 8.

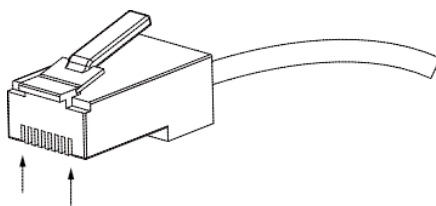


Figure 3-3 RJ-45 connector of the console port

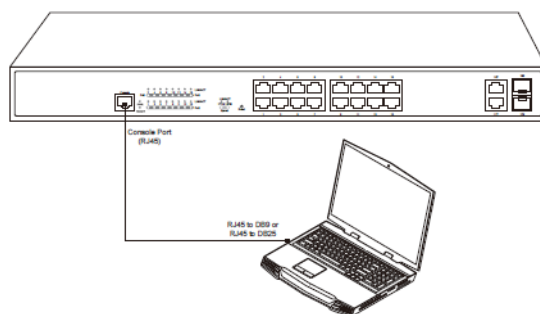


Figure 3-4 Connecting the console port of DS-3E2300P and computer

Table 3-1 Definition of the pins of the console port

| No. | Abbreviation | Name | Description |
|-----|--------------|-------------------------|-------------|
| 1 | CD | Carrier Detecting | No connect |
| 2 | RXD | Data receiving | Input |
| 3 | DSR | Data-line device ready | No connect |
| 4 | TXD | Data transmitting | Output |
| 5 | RTS | Transmission requesting | No connect |
| 6 | CTS | Response transmitting | No connect |
| 7 | DTR | Data terminal ready | No connect |
| 8 | SG | Signal ground | GND |

 **NOTE**

Because the console port of DS-3E2300P bears no flow control, you need to set Data flow control to none when using a superior terminal to manage DS-3E2300P configurations, or the single-pass problem will arise from the superior terminal.

The cable is used to connect the console port of the DS-3E2300P switch and the outside console terminal device. One end of the cable is a 8-pin RJ45 plug and the other end is a 25-hole plug (DB25) and a 9-hole plug (DB9). The RJ45 plug is put into the socket of the console port on the DS-3E2300P switch. DB25 or DB9 is applied according to the requirement of the terminal serial port. The inner line connection in the cable is shown in Figure 3-5.

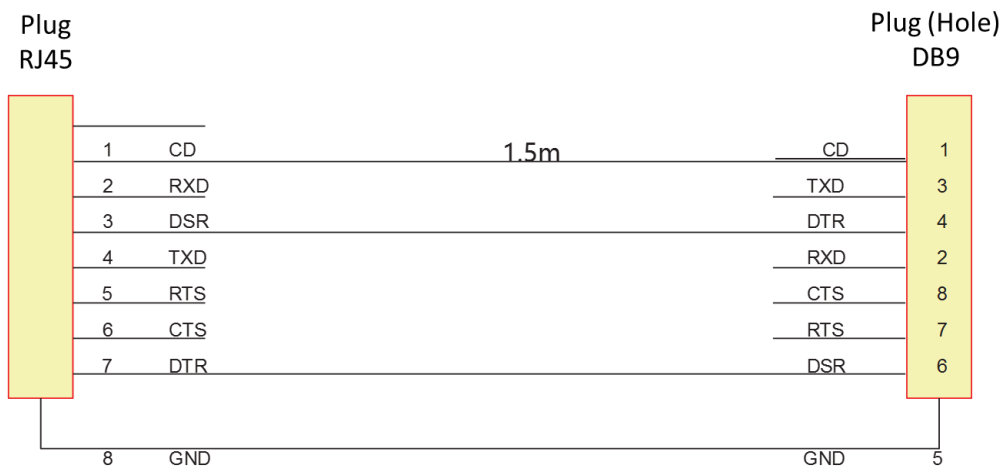


Figure 3-5 Cable connection at the console port

3.3.2 Connecting the SFP Ports

DS-3E2300P provides 2 gigabit SFP optical ports. Each port corresponds to one indicator respectively, which is used for indicating the port Link/ACT state. When the indicator is always on, the link is normal; when it flickers, the data receives and forwards. To use the optical port, you need connect it to the SFP optical module, and then to other Ethernet terminal devices through an optical fiber.

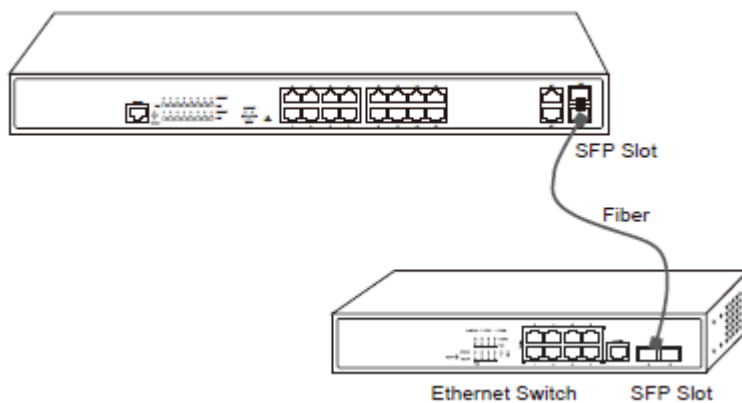


Figure 3-6 Connecting the SFP ports and other Ethernet terminals

3.3.3 Connecting 100M Ethernet Base-T Ports

The DS-3E2300P switch has 16 10/100Base-TX ports. Each port has one indicator, which indicates the state of Link/ACT. If the indicator is always on, the port is linked up; if the indicator flickers, the data is transmitted on the port. The numbering order of the pins in the UTP port is the same as the console port.

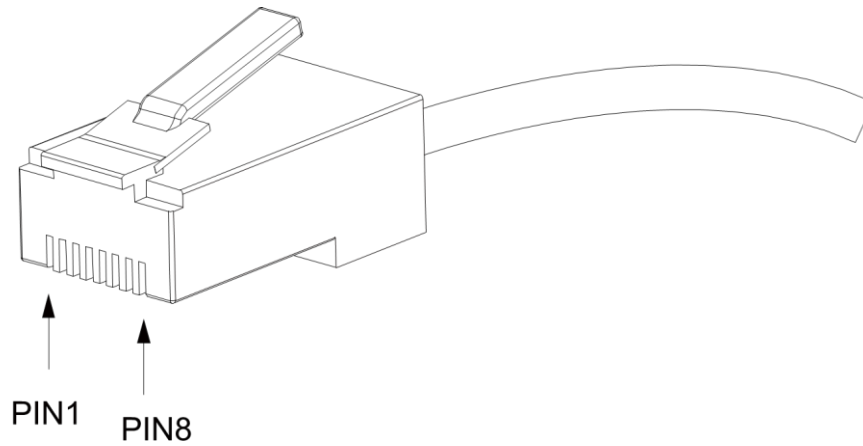


Figure 3-7 RJ-45 connector of the console port

As 16 10/100Base-TX ports of DS-3E2300P support the MDI/MDIX auto-identification of the cable, DS-3E2300P can adopt five classes of direct-through/cross network cables when it connects other Ethernet terminals.

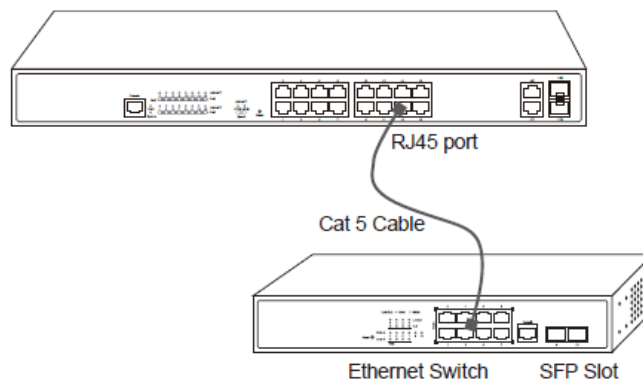


Figure 3-8 Connecting Base-T ports and other Ethernet terminal

Table 3-2 Definition of the pins of the 1000M RJ45 port

| No. | Item | Description |
|-----|-------|--|
| 1 | TXD1+ | Sending the normal phase of the data |
| 2 | TXD1- | Sending the paraphase of the data |
| 3 | RXD1+ | Receiving the normal phase of the data |
| 4 | TXD2+ | Sending the normal phase of the data |
| 5 | TXD2- | Sending the paraphase of the data |
| 6 | RXD1- | Receiving the paraphase of the data |
| 7 | RXD2+ | Receiving the paraphase of the data |
| 8 | RXD1- | Sending the paraphase of the data |

**NOTE**

The direct-through or cross network cable has the function of auto-identification, so the five classes of direct-through/cross network cables can be used to connect other Ethernet devices.

3.4 Checkup after Installation

Before feeding power to start the switch, perform the following checkups after the switch is installed:

- If the switch is installed on the DIN rail, check whether the installation is strong. If the switch is installed on the desk, check whether there is enough space for the switch to discharge its heat and whether the desk is stable.
- Check whether the connected power supply meets the power requirements of the switch.
- Check whether the grounding line of DS-3E2300P is correctly connected.
- Check whether DS-3E2300P is correctly connected to other terminal devices.

Chapter 4 Maintenance

NOTE

- Before opening the chassis, make sure that you have released the static you carried and then turn off the power on-off of DS-3E2300P. Before operating any step in Appendix B, read the section “Safety Advice”.
- Before performing operations beside the power supply or on the chassis, turn off the power on-off and plug out the power cable.

4.1 Opening the Chassis

This section describes how to open the cover of the switch, required tools and operation methods.

NOTE

When the power cable still connects the power supply, do not touch it.

To uninstall the chassis, you need some tools which the standard configuration of DS-3E2300P does not provide. These tools are:

- Crossed screwdriver
- Static armguard

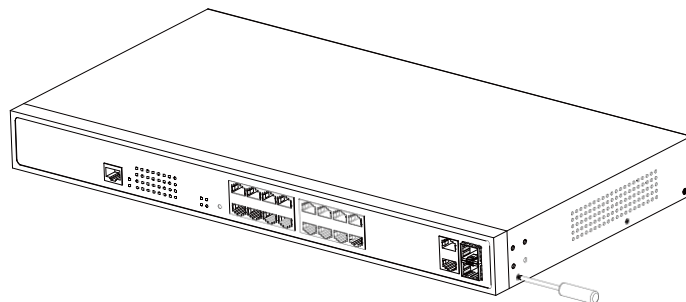
Perform the following steps to open the cover of the switch:

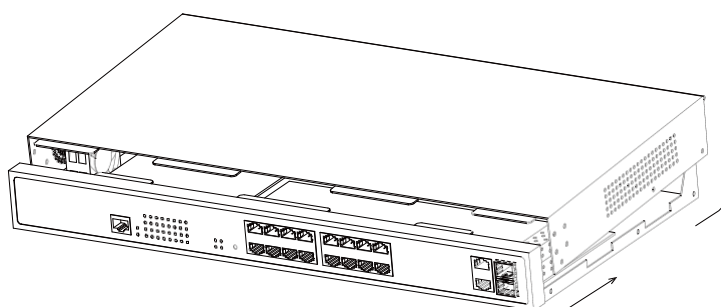
Step 1 Cut off the power of the switch.

Step 2 Plug out all cables connected the back of the switch.

Step 3 Take out the bolt from the chassis with the screwdriver.

Step 4 Remove the 3 screws of both sides as shown in the first one of the following figures and take off the upper cover as shown in the second of the following figures:





When the cover is opened, put it aside. The main board of the system appears.

 **NOTE**

After taking off the cover, put it horizontally and avoid it to be crushed or collided. Otherwise, the chassis is hard to install.

4.2 Closing the Chassis

Step 1 Align the equipment cover and its bottom, and push it in according to the direction of the arrows. Do not push it in before aligning.



Step 2 Nail the bolt and screw it tightly with the screwdriver.

Step 3 Reinstall the switch on the DIN rail or on the desk.

Step 4 Reconnect all cables of the switch.

Chapter 5 Hardware Fault Analysis

5.1 Fault Separation

The key for resolving the systematic faults is to separate the fault from the system. You can compare what the system is doing with what the system should do to detect the fault. You need to check the following subsystems:

- Connection of the power supply and the cooling system — the power supply and the fan;
- Port, cable and connection—ports on the front template of the switch and the cables connecting these ports.

5.1.1 Faults Relative with Power and Cooling System

Do the following checkups to help remove the fault:

- When the power on-off is at the “ON” location, check whether the fan works normally.
- If the switch is too hot, check whether the air outlet and air inlet are clean and then do relative operations in section 2.3 “Requirements for Common Locations”.
- If the switch cannot be started and the PWR indicator is off, check the power.

5.1.2 Faults Relative with Port, Cable and Connection

Do the following checkups to help remove the fault:

- If the port of the switch cannot be linked, check whether the cable is correctly connected and whether the peer connection is normal.
- If the console port does not work after the system is started up, check whether the console port is set to a baud rate of 9600 bps, eight data bits, no sum check bit, one stop bit and no traffic control.

5.2 LED Description

The LED shows that the switch is running. The following table shows the LEDs of the DS-3E2300P switch and their description:

Table 5-1 DS-3E2300P Indicator Description

| No. | Item | Name | Description |
|-----|----------|--|--|
| 1 | PWR | Power indicator | If the switch is powered, the indicator is on. |
| 2 | SYS | System indicator | If the indicator is always on, the system is being started up. If the LED flickers, the system works normally. |
| 3 | LINK/ACT | LINK/ACT port indicators | If the indicator is always on, it means that the connection is linked. If the indicator is off, the port is not linked. |
| 4 | PoE | PoE indicator corresponds to each port | If the indicator is always on, it means the PoE works. If the indicator is off, the PoE does not work. |

Chapter 6 Specifications

| Item | DS-3E2310P | DS-3E2318P | DS-3E2326P |
|------------------------------|---|--|--|
| Backplane | 10 Gbps | 21.2 Gbps | 22.8 Gbps |
| Forwarding rate | 5.6 Mpps | 8.4 Mpps | 9.6 Mpps |
| MAC | 8K | 8K | 8K |
| Ports | 8 100M Base-T ports+2 gigabit combo ports | 16 100M Base-T ports + 2 gigabit combo ports | 24 100M Base-T ports + 2 gigabit combo ports |
| Dimensions(W×D×H)(mm) | 280*179*45 | 440×232×44 | 440×232×44 |
| Consumption | <15W | <15W | <15W |
| POE/POE+ | Support | Support | Support |
| POE power consumption | 140W(POE 125W) | 330W (POE 300W) | 400W (POE 380W) |
| Power supply | AC: 100V-240V, 50Hz±10% | | |
| Environment | Operating temperature/humidity: 0 °C to 50 °C, 10% to 90% non-condensing Storage temperature/humidity: -20 °C to 70 °C; 5% to 95% non-condensing | | |
| MAC exchange | Static configuration and dynamic MAC learning; MAC browsing and removal Configurable aging time of the MAC address; Limited number of learnable MAC addresses; MAC filtration | | |
| VLAN | 4K VLAN; GVRP; QinQ; Private VLAN | | |
| STP | 802.1D (STP), 802.1W (RSTP) and 802.1S (MSTP) BPDU protection, root protection, and loopback protection | | |
| Multicast | IGMP v1/v2/v3 IGMP snooping IGMP Fast Leave Multicast group strategy and quantity limitation Multicast flow copying over VLANs (not supported by S2108POE) | | |
| QoS | Flow classification based on L2~4 protocols (not supported by S2108POE) CAR flow limit 802.1P/DSCP priority re-labeling (not supported by S2108POE) SP, WRR, and "SP+WRR" Congestion avoidance mechanisms like Tail-Drop and WRED Flow monitoring and flow shaping | | |
| Security | L2/L3/L4 ACL flow identification and filtration (not supported by | | |

| | |
|--------------------|--|
| | S2108POE) DDoS attack prevention, TCP's SYN Flood attack prevention, UDP Flood attack prevention, etc. Broadcast/multicast/unknown unicast storm-control Port isolation Port security, and "IP+MAC+port" binding (not supported by S2108POE) |
| Reliability | Static/LACP link aggregation EAPS and ERPS |
| Management | Console, Telnet, SSH2.0, Web SNMP v1/v2/v3 TFTP RMON |



See Far, Go Further