



# **Ethernet Switch (8-Port Gigabit Managed PoE Switch)**

## **Quick Start Guide**



# Foreword

## General

This manual introduces the installation, functions and operations of the 8-port Gigabit managed PoE switch (hereinafter referred to as "the device"). Read carefully before using the device, and keep the manual safe for future reference.

## Safety Instructions

The following signal words might appear in the manual.

Signal Words	Meaning
 DANGER	Indicates a high potential hazard which, if not avoided, will result in death or serious injury.
 WARNING	Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury.
 CAUTION	Indicates a potential risk which, if not avoided, could result in property damage, data loss, reductions in performance, or unpredictable results.
 TIPS	Provides methods to help you solve a problem or save time.
 NOTE	Provides additional information as a supplement to the text.

## Revision History

Version	Revision Content	Release Time
V1.0.1	Updated Foreword.	November 2025
V1.0.0	First release.	June 2025

## Privacy Protection Notice

As the device user or data controller, you might collect the personal data of others such as their face, audio, fingerprints, and license plate number. You need to be in compliance with your local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures which include but are not limited to: Providing clear and visible identification to inform people of the existence of the surveillance area and provide required contact information.

## About the Manual

- The manual is for reference only. Slight differences might be found between the manual and the product.
- We are not liable for losses incurred due to operating the product in ways that are not in compliance with the manual.

- The manual will be updated according to the latest laws and regulations of related jurisdictions. For detailed information, see the paper user manual, use our CD-ROM, scan the QR code or visit our official website. The manual is for reference only. Slight differences might be found between the electronic version and the paper version.
- All designs and software are subject to change without prior written notice. Product updates might result in some differences appearing between the actual product and the manual. Please contact customer service for the latest program and supplementary documentation.
- There might be errors in the print or deviations in the description of the functions, operations and technical data. If there is any doubt or dispute, we reserve the right of final explanation.
- Upgrade the reader software or try other mainstream reader software if the manual (in PDF format) cannot be opened.
- All trademarks, registered trademarks and company names in the manual are properties of their respective owners.
- Please visit our website, contact the supplier or customer service if any problems occur while using the device.
- If there is any uncertainty or controversy, we reserve the right of final explanation.

# Important Safeguards and Warnings

This section introduces content covering the proper handling of the device, hazard prevention, and prevention of property damage. Read carefully before using the device, and comply with the guidelines when using it.

## Transportation Requirements



Transport the device under allowed humidity and temperature conditions.

## Storage Requirements



Store the device under allowed humidity and temperature conditions.

## Installation Requirements



- Do not connect the power adapter to the device while the adapter is powered on.
- Strictly comply with the local electrical safety code and standards. Make sure that the ambient voltage is stable and meets the power supply requirements of the device.
- Personnel working at heights must take all necessary measures to ensure personal safety including wearing a helmet and safety belts.
- Please follow the electrical requirements to power the device.
  - ◊ Following are the requirements for selecting a power adapter.
    - The power supply must conform to the requirements of IEC 60950-1 and IEC 62368-1 standards.
    - The voltage must meet the SELV (Safety Extra Low Voltage) requirements and not exceed ES-1 standards.
    - When the power of the device does not exceed 100 W, the power supply must meet LPS requirements and be no higher than PS2.
  - ◊ We recommend using the power adapter provided with the device.
  - ◊ When selecting the power adapter, the power supply requirements (such as rated voltage) are subject to the device label.



- Do not place the device in a place exposed to sunlight or near heat sources.
- Keep the device away from dampness, dust, and soot.
- Put the device in a well-ventilated place, and do not block its ventilation.
- Use an adapter or cabinet power supply provided by the manufacturer.
- The device must be installed at a height of 2 meters or below.
- Do not connect the device to two or more kinds of power supplies, to avoid damage to the device.

- The device is a class I electrical appliance. Make sure that the power supply of the device is connected to a power socket with protective earthing.
- When installing the device, make sure that the power plug can be easily reached to cut off the power.
- Voltage stabilizer and lightning surge protector are optional depending on the actual power supply on site and the ambient environment.
- To ensure heat dissipation, the gap between the device and the surrounding area should not be less than 10 cm on the sides and 10 cm on top of the device.
- When installing the device, make sure that the power plug and appliance coupler can be easily reached to cut off power.

## Operating Requirements

### DANGER

-  The device or remote control contains button batteries. Do not swallow the batteries due to the risk of chemical burns.

Possible result: The swallowed button battery can cause serious internal burns and death within 2 hours.

Preventive measures (including but not limited to):

- ◊ Keep new and used batteries out of reach of children.
- ◊ If the battery compartment is not securely closed, stop using the product immediately and keep out of reach of children.
- ◊ Seek immediate medical attention if a battery is believed to be swallowed or inserted inside any part of the body.

- Battery Pack Precautions

Preventive measures (including but not limited to):

- ◊ Do not transport, store or use the batteries in high altitudes with low pressure and environments with extremely high and low temperatures.
- ◊ Do not dispose the batteries in fire or a hot oven, or mechanically crush or cut the batteries to avoid an explosion.
- ◊ Do not leave the batteries in environments with extremely high temperatures to avoid explosions and leakage of flammable liquid or gas.
- ◊ Do not subject the batteries to extremely low air pressure to avoid explosions and the leakage of flammable liquid or gas.

### WARNING

- Operating the device in a domestic environment may cause radio interference.
- Do not disassemble the device without professional instruction.
- Operate the device within the rated range of power input and output.
- Make sure that the power supply is correct before use.
- Make sure the device is powered off before disassembling wires to avoid personal injury.
- Do not unplug the power cord on the side of the device while the adapter is powered on.
- Ground the device to protective ground before you power it on.
- The device must be reliably grounded by professionals. They must install the grounding conductor in the building floor and verify the grounding connection of the output receptacle.

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- Use the device under allowed humidity and temperature conditions.

- Do not drop or splash liquid onto the device, and make sure that there is no object filled with liquid on the device to prevent liquid from flowing into it.
- Operating temperature:  $-10^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$  ( $+14^{\circ}\text{F}$  to  $+131^{\circ}\text{F}$ ).
- Do not block the ventilator of the device with objects, such as a newspaper, table cloth or curtain.
- Do not place an open flame on the device, such as a lit candle.

## Maintenance Requirements

 **DANGER**

Replacing unwanted batteries with the wrong type of new batteries might result in explosion.

Preventive measures (including but not limited to):

- Replace unwanted batteries with new batteries of the same type and model to avoid the risk of fire and explosion.
- Dispose of the old batteries as instructed.

 **WARNING**

Power off the device before maintenance.

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# 1 Overview

## 1.1 Introduction

The device is an 8-port Gigabit managed PoE switch. Equipped with a high performance switching engine, the device performs optimally. It has low transmission delay, large buffer and is highly reliable. With protection against overvoltage, EMC and overcurrent from power input terminals, the device effectively resists interference from static electricity, lightning, and pulses.

In addition, through cloud management, webpage management, SNMP (Simple Network Management Protocol), and other functions, the device can be remotely managed. The device is applicable for uses in different scenarios, including buildings, homes, offices and small malls.



Cloud management refers to managing this device through the DoLynk apps and webpages. Scan the QR code in the packaging box to learn how to perform cloud management operations.

## 1.2 Features

- Supports IEEE802.3af, IEEE802.3at standard. Port 1 supports IEEE802.3bt, and is compatible with Hi-PoE.
- PoE watchdog.
- Supports 250 m long-distance PoE power supply.



In **Extend Mode**, the transmission distance of the PoE port is up to 250 m but the transmission rate drops to 10 Mbps. The actual transmission distance might vary due to power consumption of connected devices or the cable type and status.

- Supports STP/RSTP protocols.
- Supports static link aggregation and LACP.
- Supports EMC high protection design.
- Desktop mount and wall mount.

## 2 Port and Indicator

### 2.1 Front Panel

The following is an example of an appearance. The actual device might differ or only include partial features. For details, refer to the port introduction and the physical device.

Figure 2-1 Front panel

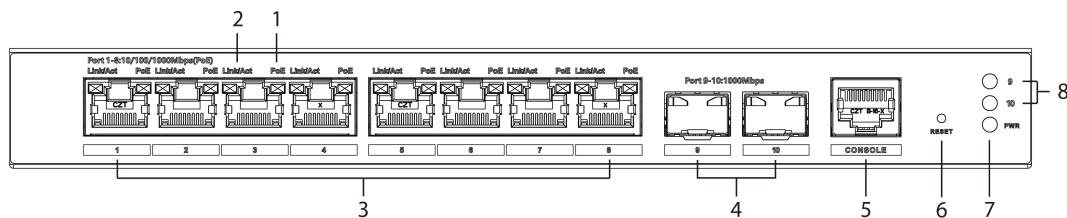


Table 2-1 Panel description

No.	Description
1	PoE network port power supply status indicator. <ul style="list-style-type: none"><li>On: Use PoE power supply.</li><li>Off: Not using PoE power supply.</li></ul>
2	Single port data transmission status (Link/Act) indicator. <ul style="list-style-type: none"><li>On: The port is connected to the device.</li><li>Flashes: Data transmission is in progress.</li><li>Off: The port is not connected to the device.</li></ul>
3	RJ-45 port. 10/100/1000 Mbps self-adaptive Ethernet port.
4	1000 Mbps uplink optical port.
5	Console port. Device debugging serial port.
6	Reset button. Press and hold for longer than 5 seconds, wait until all the indicators are solid on, and then release. The device recovers to the default settings.
7	Power indicator. <ul style="list-style-type: none"><li>On: Power on.</li><li>Off: Power off.</li></ul>
8	Uplink optical port status indicator. <ul style="list-style-type: none"><li>On: The port is connected to the device.</li><li>Flashes: Data transmission is in progress.</li><li>Off: The port is not connected to the device.</li></ul>

## 2.2 Rear Panel

The following is an example of an appearance. The actual device might differ or only include partial features. Please refer to the port introduction in conjunction with the actual object for details.

Figure 2-2 Rear panel

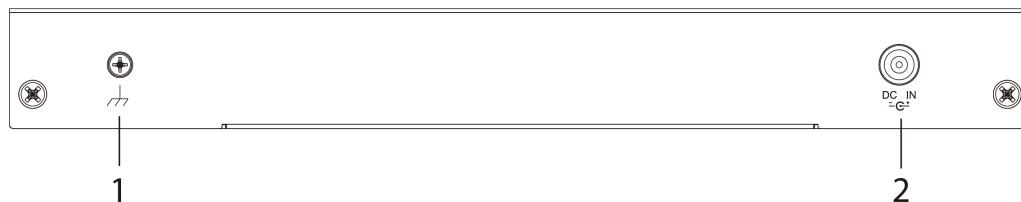


Table 2-2 Panel description

No.	Description
1	Ground terminal. Connects to GND.
2	Power port, supporting 48-57 VDC.

## 3 Installation

### 3.1 Preparations

- Select a proper installation method according to your actual needs.
- Make sure that the working platform is stable and steady.
- Leave about 10 cm space for heat dissipation to ensure good ventilation.

### 3.2 Desktop Mount

The device supports desktop mount. Place it on a steady and stable desktop.

### 3.3 Wall Mount

#### Procedure

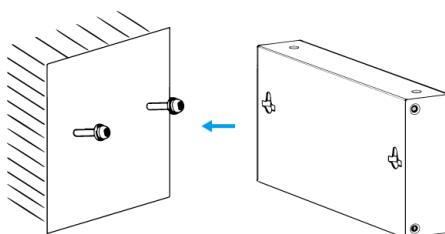
Step 1 Drill two M4 screws into the wall, leaving a space of 4 mm between the wall and the head of the screw.



- Screws do not come with the package. Purchase them as needed.
- Make sure that the distance between the screws is the distance between the wall-mount holes (120 mm).

Step 2 Align the wall-mount holes on the back cover of the device with the screws, and hang the device on the screws.

Figure 3-1 Wall mount



## 4 Wiring

### 4.1 Connecting GND Cable

Normal GND connection of the device is the important guarantee for device lightning protection and anti-interference.

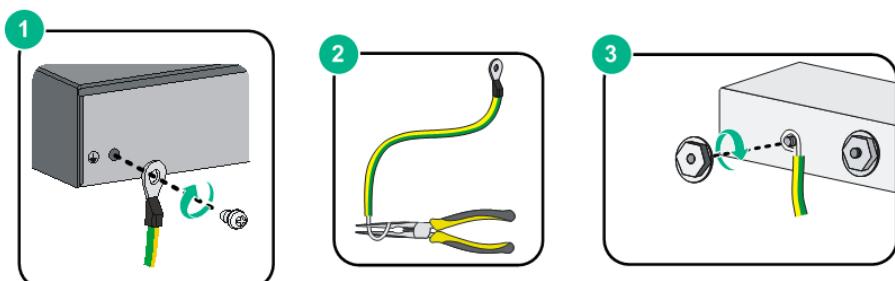
#### Procedure

- Step 1 Remove the ground screw on the device and place it properly. Pass the ground screw through the round hole of the OT terminal of the ground cable. Turn the ground screw clockwise with a cross screwdriver to fasten the OT terminal of the ground cable.
- Step 2 Wind the other end of the ground cable into a circle with needle-nose pliers.
- Step 3 Connect the other end of the ground cable to the ground bar, turn the hex nut clockwise with a wrench to fasten the other end of the ground cable to the ground terminal.



Use a yellow-green protective grounding wire with the cross-sectional area of at least 4 mm<sup>2</sup> and the grounding resistance of no more than 4 Ω.

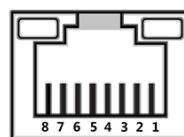
Figure 4-1 Connect GND



### 4.2 Connecting Ethernet Port

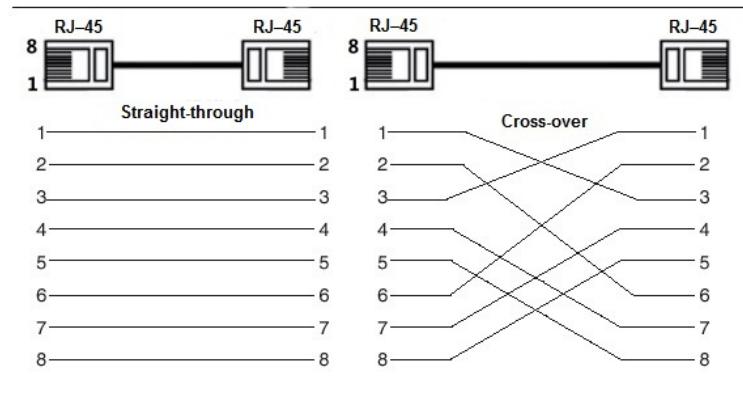
Ethernet port adopts standard RJ-45 port. Equipped with self-adaptation function, it can be automatically configured to full duplex/half-duplex operation mode, and supports MDI/MDI-X self-recognition function of the cable, which means that the device can use cross-over cable or straight-through cable to connect terminal device to network device.

Figure 4-2 Ethernet port pin number



The cable connection of RJ-45 connector conforms to the standard 568B (1-orange&white, 2-orange, 3-green&white, 4-blue, 5-blue&white, 6-green, 7-brown&white, 8-brown).

Figure 4-3 Pin description



## 4.3 Connecting SFP Ethernet Port

### Procedure

**Step 1** Before installing the SFP optical module, wear antistatic wrist strap and ensure it makes proper contact with your bare skin. Then put on antistatic gloves.

**Step 2** Lift the handle of SFP optical module upward vertically and make it get stuck to the top hook.

**Step 3** Hold the SFP optical module on both sides and push it gently into the SFP slot till the SFP optical module is firmly connected to the slot (You can feel that both the top and bottom spring strip of the SFP optical module are firmly stuck with the SFP slot).

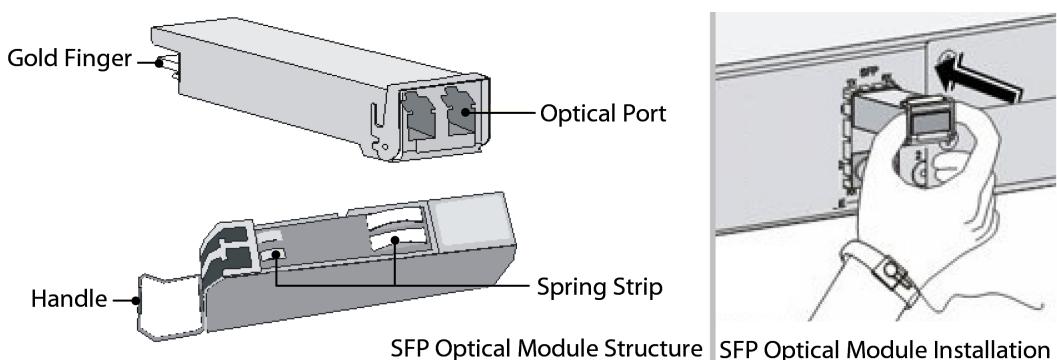


The device uses laser to transmit signal through optical fiber cable. The laser conforms to the requirements of level 1 laser products. To avoid injury upon eyes, do not look at the 1000 Base-X optical port directly when the device is powered on.



- When installing the SFP optical module, do not touch the gold finger of the SFP optical module.
- Do not remove the dust plug of the SFP optical module before connecting the optical port.
- Do not directly insert the SFP optical module with the optical fiber inserted into the slot. Unplug the optical fiber before installing it.

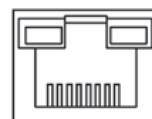
Figure 4-4 SFP optical module structure and installation



## 4.4 Connecting Console Port

The device console port and computer controlling 9-pin serial port are connected with RJ-45 DB9 cable. You can call the console software of the device by operating the superterminal software of the Windows system for device configuration, maintenance, and management.

Figure 4-5 Console port



One end of RJ-45 DB9 cable is RJ-45 connector, which needs to be inserted into the console port of the device. And the other end is DB9 plug, which needs to be inserted into the computer controlling 9-pin serial port.

Figure 4-6 Cable sequence of RJ45 DB9

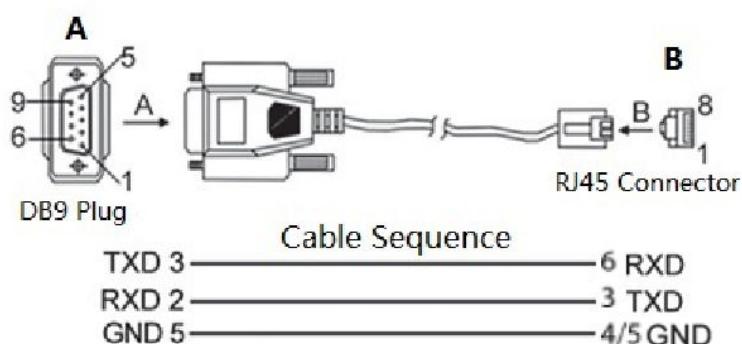


Table 4-1 Pin description

DB9 pin	RJ-45 pin	Signal	Description
3	6	RXD	Receiving data
2	3	TXD	Transmitting data
5	4/5	GND	GND

## 5 Quick Operation

### 5.1 Logging in to the Webpage

You can log in to the webpage to perform operations on the device and manage it.

Table 5-1 Default factory settings

Parameter	Description
IP address	192.168.1.110/255.255.255.0
Username	admin
Password	You need to set the password for first-time login.

### 5.2 Restoring the Device to Factory Settings

There are 2 ways to restore the device to factory settings.



Restoring factory defaults will cause data loss. Please be advised.

- Press and hold the **Reset** button for 5 seconds.
- Log in to the webpage of the device and perform the required steps for factory reset. For information on these steps, see the user manual of the device.

# Appendix 1 Security Commitment and Recommendation

Dahua Vision Technology Co., Ltd. (hereinafter referred to as "Dahua") attaches great importance to cybersecurity and privacy protection, and continues to invest special funds to comprehensively improve the security awareness and capabilities of Dahua employees and provide adequate security for products. Dahua has established a professional security team to provide full life cycle security empowerment and control for product design, development, testing, production, delivery and maintenance. While adhering to the principle of minimizing data collection, minimizing services, prohibiting backdoor implantation, and removing unnecessary and insecure services (such as Telnet), Dahua products continue to introduce innovative security technologies, and strive to improve the product security assurance capabilities, providing global users with security alarm and 24/7 security incident response services to better protect users' security rights and interests. At the same time, Dahua encourages users, partners, suppliers, government agencies, industry organizations and independent researchers to report any potential risks or vulnerabilities discovered on Dahua devices to Dahua PSIRT, for specific reporting methods, please refer to the cyber security section of Dahua official website.

Product security requires not only the continuous attention and efforts of manufacturers in R&D, production, and delivery, but also the active participation of users that can help improve the environment and methods of product usage, so as to better ensure the security of products after they are put into use. For this reason, we recommend that users safely use the device, including but not limited to:

## Account Management

### 1. Use complex passwords

Please refer to the following suggestions to set passwords:

- The length should not be less than 8 characters;
- Include at least two types of characters: upper and lower case letters, numbers and symbols;
- Do not contain the account name or the account name in reverse order;
- Do not use continuous characters, such as 123, abc, etc.;
- Do not use repeating characters, such as 111, aaa, etc.

### 2. Change passwords periodically

It is recommended to periodically change the device password to reduce the risk of being guessed or cracked.

### 3. Allocate accounts and permissions appropriately

Appropriately add users based on service and management requirements and assign minimum permission sets to users.

### 4. Enable account lockout function

The account lockout function is enabled by default. You are advised to keep it enabled to protect account security. After multiple failed password attempts, the corresponding account and source IP address will be locked.

### 5. Set and update password reset information in a timely manner

Dahua device supports password reset function. To reduce the risk of this function being used by threat actors, if there is any change in the information, please modify it in time. When setting security questions, it is recommended not to use easily guessed answers.

## Service Configuration

### 1. **Enable HTTPS**

It is recommended that you enable HTTPS to access Web services through secure channels.

### 2. **Encrypted transmission of audio and video**

If your audio and video data contents are very important or sensitive, we recommend you to use encrypted transmission function in order to reduce the risk of your audio and video data being eavesdropped during transmission.

### 3. **Turn off non-essential services and use safe mode**

If not needed, it is recommended to turn off some services such as SSH, SNMP, SMTP, UPnP, AP hotspot etc., to reduce the attack surfaces.

If necessary, it is highly recommended to choose safe modes, including but not limited to the following services:

- SNMP: Choose SNMP v3, and set up strong encryption and authentication passwords.
- SMTP: Choose TLS to access mailbox server.
- FTP: Choose SFTP, and set up complex passwords.
- AP hotspot: Choose WPA2-PSK encryption mode, and set up complex passwords.

### 4. **Change HTTP and other default service ports**

It is recommended that you change the default port of HTTP and other services to any port between 1024 and 65535 to reduce the risk of being guessed by threat actors.

## Network Configuration

### 1. **Enable Allowlist**

It is recommended that you turn on the allowlist function, and only allow IP in the allowlist to access the device. Therefore, please be sure to add your computer IP address and supporting device IP address to the allowlist.

### 2. **MAC address binding**

It is recommended that you bind the IP address of the gateway to the MAC address on the device to reduce the risk of ARP spoofing.

### 3. **Build a secure network environment**

In order to better ensure the security of devices and reduce potential cyber risks, the following are recommended:

- Disable the port mapping function of the router to avoid direct access to the intranet devices from external network;
- According to the actual network needs, partition the network: if there is no communication demand between the two subnets, it is recommended to use VLAN, gateway and other methods to partition the network to achieve network isolation;
- Establish 802.1x access authentication system to reduce the risk of illegal terminal access to the private network.

## Security Auditing

### 1. **Check online users**

It is recommended to check online users regularly to identify illegal users.

### 2. **Check device log**

By viewing logs, you can learn about the IP addresses that attempt to log in to the device and key operations of the logged users.

### 3. **Configure network log**

Due to the limited storage capacity of devices, the stored log is limited. If you need to save the log for a long time, it is recommended to enable the network log function to ensure that the critical logs are synchronized to the network log server for tracing.

## Software Security

### 1. **Update firmware in time**

According to the industry standard operating specifications, the firmware of devices needs to be updated to the latest version in time in order to ensure that the device has the latest functions and security. If the device is connected to the public network, it is recommended to enable the online upgrade automatic detection function, so as to obtain the firmware update information released by the manufacturer in a timely manner.

### 2. **Update client software in time**

We recommend you to download and use the latest client software.

## Physical Protection

It is recommended that you carry out physical protection for devices (especially storage devices), such as placing the device in a dedicated machine room and cabinet, and having access control and key management in place to prevent unauthorized personnel from damaging hardware and other peripheral equipment (e.g. USB flash disk, serial port).

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