

User Guide


16GE Gigabit Switch

This document applies to PM116GS V3 Unmanagement Switch. The PM116GS V3 is used as an example in the product figure unless otherwise specified.

Packing list

When using the Switch for the first time, carefully open the packing box. The packing box should contain the following items:

- Switch x1
- User manual x1
- Power cord x1
- Guide rail link x2
- Screw x8
- MATS x4

 **Note:** Precision devices are built in the device, please handle them carefully to avoid violent vibration, which may affect the performance of the device. If you find that the equipment is damaged or any parts are lost in the process of transportation, please inform us, we will give you a proper solution as soon as possible.

Chapter 1 Product introduction

1.1 Product Overview

The 16GE Switch is an Unmanagement Switch developed by UNIPOE. It provides 16* 10/100/1000Mbps adaptive RJ45 ports, each of which supports MDI/MDIX automatic flip and wire-speed forwarding. Easy to manage and maintain, meet the networking and access requirements of enterprises, communities, hotels, office networks and campus networks.

1.2 Product Features

- Complies with IEEE802.3, IEEE802.3u, IEEE802.3z, IEEE802.3az, IEEE802.3x

standards;

- RJ45 Supports automatic port flip (Auto MDI/MDIX);
- Supports IEEE802.3x full-duplex flow control and Backpressure half-duplex flow control;
- Perfect security mechanism;
- Intelligent recognition of wire speed forwarding;
- Data exchange adopts store-and-forward mode;
- Supports Switching between VLAN and CCTV modes;
- Operating temperature: 0°C ~ 40 °C.

Chapter 2 Product appearance description

2.1 Front panel

The front panel consists of 16*10/100/1000Mbps adaptive RJ45 ports and associated indicators, as shown below:

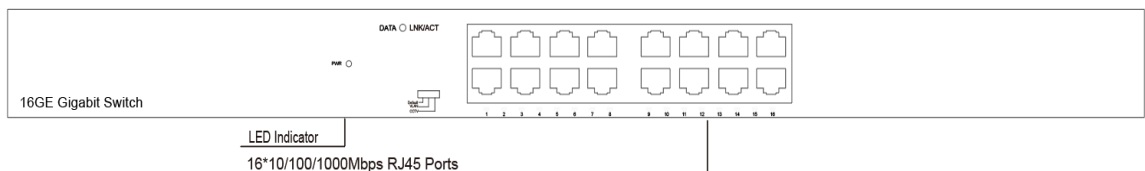


Figure 2-1 Front panel of the PM116GS V3 Switch

PM116GS V3 Port description:

➤ 10/100/1000 MBPS RJ45 port

Supports 10Mbps, 100Mbps, or 1000Mbps rate adaptation, auto-MDI /MDIX, and each port has a corresponding indicator, that is, port indicators 1-24 as shown on the panel in the figure above.

➤ LED light

The LED indicator is used to indicate the different working status of the Switch, so that we can check whether the Switch is working properly in time.

2.2 LED Indicator

The LED indicators of the Switch are shown in the following table. Users can monitor the work and running status of the Switch conveniently and quickly through the following indicators:

LED	Color	Function
PWR	Green	Off: No Power supply. Light: Indicates the Switch has power.
LNK/ACT	Green	Off: No network device is connected Steady on: A network device is connected Blinking: Data is being transferred

2.3 Rear Panel

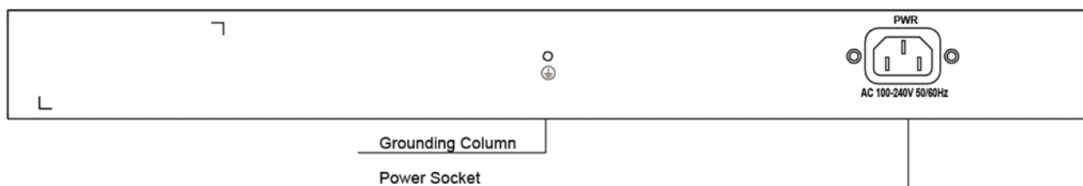


Figure 2-2 Rear panel of PM116GS V3 Switch

AC Power Port

This is an AC power socket, connect the negative plug of the power cord to this interface, and connect the positive plug to the AC power supply.

Lightning protection grounding pole

It is located to the left of the power interface. Please use wire grounding to prevent lightning strike.

Chapter 3 Installation Guide

This chapter helps users correctly install and safely use Switch.

3.1 Installation Precautions



Precautions: To avoid equipment damage and personal injury, observe the following precautions:

- The Switch room should be dry and ventilated, free from corrosive gases and strong electromagnetic interference.
- The humidity of the Switch equipment room should be lower than 90%. Install proper devices when possible.
- The grounding of the Switch shall comply with the grounding requirements described in this manual, and shall be separately and well grounded.
- The Switch voltage should be stable to prevent abnormal operation of the Switch caused by power supply voltage mutation, fluctuation and other phenomena;
- Keep a proper distance between the Switch and other devices. Do not stack other devices with the Switch.
- The connection cable between the Switch and the distribution frame should be standardized and reasonable, and the distribution frame (box) jumper wire should be concise and clear to prevent the phenomenon of parallel lines and wires;
- To reduce the risk of electric shock, do not open the shell of the Switch when it is working. Do not open the shell of the Switch even when it is not powered on.



Safety Tips:

- Use a three-hole socket with safe grounding, and ensure that the PGND cable of the power socket is reliably grounded.
- Ensure sufficient space for heat dissipation and ventilation of the Switch. Do not place heavy objects on the Switch.

3.2 Installation Environment

Before installation, make sure that the proper working environment is available, including power requirements, adequate space, proximity to other equipment to be connected, and other equipment in place. Please confirm the following installation requirements:

- Ensure the stability of the workbench and good grounding;

- Check whether cables and connectors required for installation are in place (less than 100m).
- The product does not provide installation components. Prepare components of the selected installation type, such as screws, nuts, and tools, to ensure reliable installation.
- Power supply: Environment: operating temperature: 0°C to 40 °C relative humidity: 5% to 90%.

3.3 Installation

Desktop Installation

- Place the bottom of the Switch face up on a large enough stable desktop;
- Tear off the attached sticky paper on the surface of the footpad and paste the footpad into the groove at the bottom of the chassis of the Switch to prevent external vibration;
- Carefully position the Switch upright on the workbench.

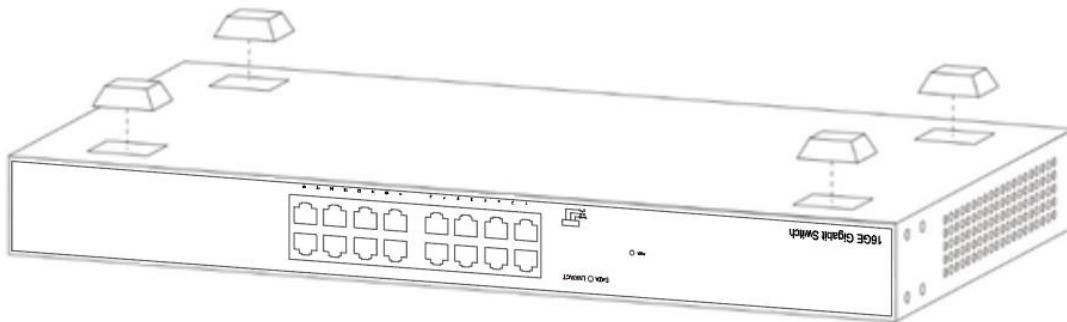


Figure 3-1 Desktop Installation Diagram

Rack Mounting

- Check the grounding and stability of the EIA-19inch cabinet;
- Fix mounting ears to both sides of the front panel of the Switch using screws. Place the Switch on a bracket of the cabinet and move the Switch along the guide rails of the cabinet to a proper position;
- Use screws to fix mounting ears to the guide rails at both ends of the cabinet to ensure that the Switch is securely installed on the brackets in the cabinet slots. The mounting ear of the device is not used for weight bearing, it is only used for fixation;

- When installing devices in a cabinet, brackets (fixed on the cabinet) are provided below the device chassis to support devices.

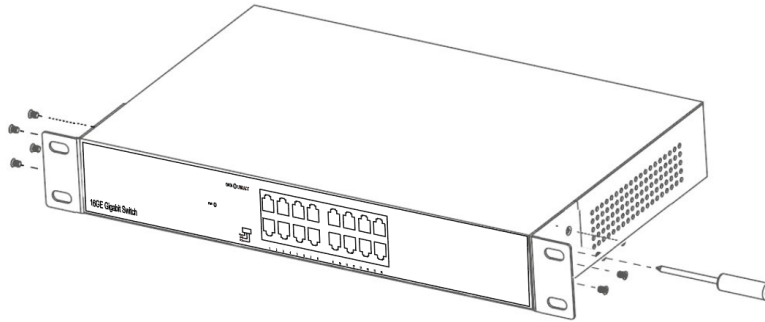


Figure 3-2 Rack installation diagram

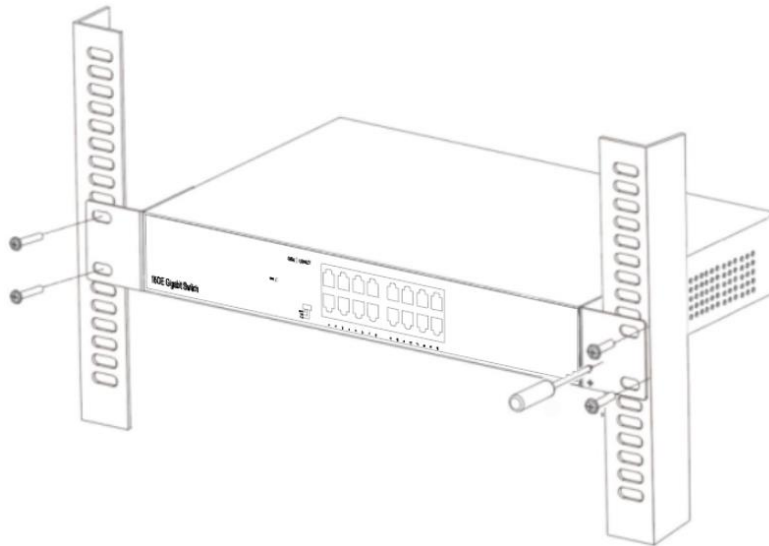


Figure 3-3 Rack installation diagram

Enabling the Switch

Connect the power cord, plug in, and turn on the power. After the Switch is started, the Switch automatically initializes. If all port indicators are on and off, the system is successfully reset. The power LED indicator is steady on.

Note: Before powering on the device, ensure that the voltage is correct; otherwise, the device may be damaged. (Power input range: 100-240V AC 50/60Hz).

Appendix: Technical Specifications

Model	16GE Gigabit Switch
Standard	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.3x, IEEE802.3az , IEEE802.3ab
Network Media (Cable)	10BASE-T: UTP category 3, 4, 5 cable ($\leq 100\text{m}$) 100BASE-TX: UTP category 5, 5e cable ($\leq 100\text{m}$) 1000BASE-T: UTP category 5e, 5 cable ($\leq 100\text{m}$)
MAC Address Table	8K, Auto-learning, Auto-aging
Transfer Mode	Store-and-Forward
Switching Capacity	32Gbps
Packet Forward Speed	23.8Mpps
Dimensions (L*W*H)	440*207*44mm
Fan	Fanless
Input Power Supply	100~240V AC, 50/60Hz
Power Supply	12V/1.2A
Temperature	Operating Temperature: 0°C ~ 40 °C Storage Temperature: -40 °C ~ 70°C
Humidity	Operating Humidity: 10% ~ 90% non-condensing Storage Humidity: 5% ~ 90% non-condensing