User Guide

4GE(PoE)+1GE+1GE(PD) Web Smart PoE Switch

This document applies to the 4GE(PoE)+1GE+1GE(PD) Web Smart PoE Switch. The 4GE(PoE)+1GE+1GE(PD) 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 *1
- ➢ User Manual *1
- ➢ Power Cord *1
- ➢ Feet *4

⚠ **Note:** Precision devices are built into 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, and we will give you a proper solution as soon as possible.

Chapter 1 Product Introduction

1.1 Product Overview

The 4GE(PoE)+1GE+1GE(PD) Web Smart PoE Switch is independently developed by our company. Available with 6*10/100/1000Mbps adaptive RJ45 ports. Each RJ45 port supports MDI/MDIX automatic rollover and wire-speed forwarding. Ports 1-4 have PSE function and support a single port with a maximum output of 30W. Port 6 has PD function and supports 95W input.

The device supports 2 power supply modes: three-in-one power supply (PoE) and flexible network expansion in the home and office without limitation on power line layout. It is easy to manage and maintain and meets different scenarios.

Chapter 2 Product Appearance Description

2.1 Front panel

The front panel consists of 6*10/100/1000Mbps adaptive RJ45 ports and related indicators, as shown in the following figure:
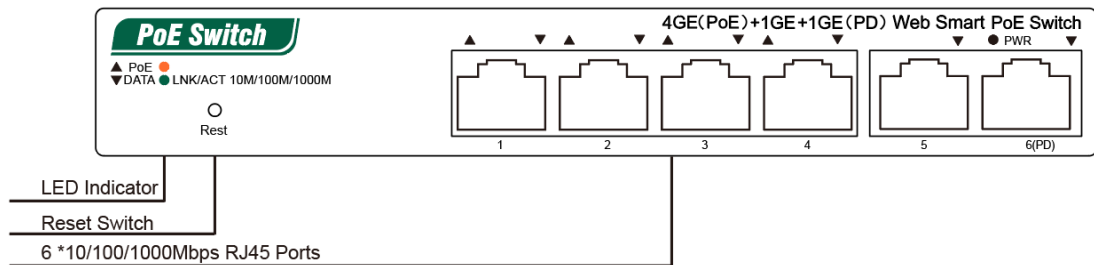
Figure 2-1 Front panel of the 4GE(PoE)+1GE+1GE(PD) Switch

4GE(PoE)+1GE+1GE(PD) Port Description:

➢**10/100/1000Mbps RJ45 Ports**

Support 10Mbps, 100Mbps, or 1000Mbps rate adaptive function, support Auto-MDI/MDIX function. Ports 1-4 support PoE power supply, PoE ports can automatically detect PD devices and power PD devices that comply with IEEE 802.3af/at standard up to 30W for a single port. Port 6 has PD function and supports 95W input. Each port has a corresponding indicator, port 1-6 indicators shown on the panel above.

➢**Reset Switch**

Reset Switch is simply a Switch that can reset automatically. Press it for 5s and release it to restore the initial state.

➢**LED Indicator**

The LED indicator is used to indicate the different working states 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	Orange	Off: No Power supply. Light: Indicates the Switch has power.
DATA	Green	Off: Data port is disconnected. Light: Data port is connected. Blink: Data port with data forwarding.
PoE	Orange	Off: Port disconnected from power supply. Light: Port is powered.

2.3 Rear Panel

Switch Rear Panel has DC power interface, connects the power adapter, and grounding column.
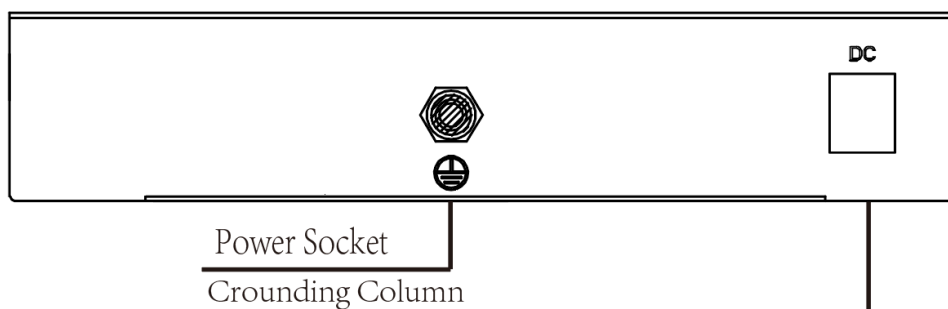

Figure 2-2 Rear panel of the 4GE(PoE)+1GE+1GE(PD) Switch

Chapter 3 Installation Guide

This chapter helps users correctly install and safely use Switches.

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% and around 25 degrees Celsius. If possible, install corresponding facilities;

➢ 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 avoid the danger of electric shock, do not open the chassis without authorization; If any fault occurs, contact professional maintenance personnel.

⚠ **Safety Tips:**

➢ Use a three-hole socket with safe grounding, and ensure that the PGND cable of the power socket is properly grounded.

➢ Ensure sufficient space for heat dissipation and ventilation of the Switch. Do not place heavy objects on the Switch.

3.2Installation 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);

➤ Environment requirements: The operating temperature ranges from 0°C to 40°C and the relative humidity ranges from 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;

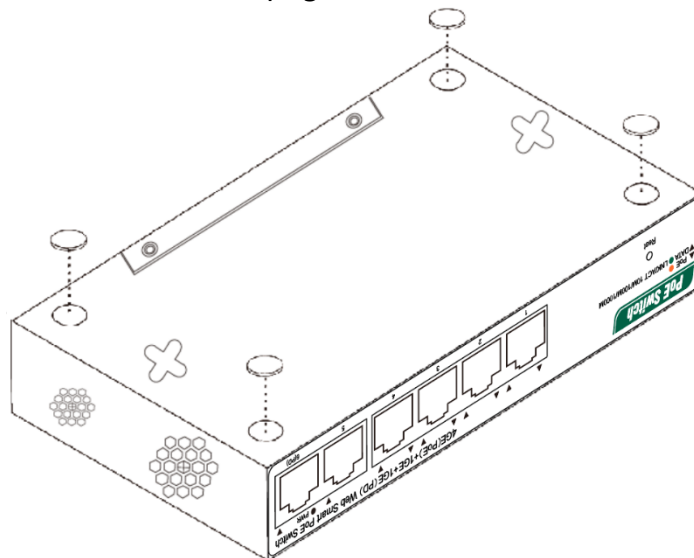➤ Carefully position the Switch upright on the workbench;

Figure 3-1 Desktop Installation Diagram

Wall mounted installation

➢ Install the Switch by following the steps: Fix 2 screws on the wall to align the 2 fixing holes on the Switch, as shown in the figure below, and hang the Switch smoothly on the screws.
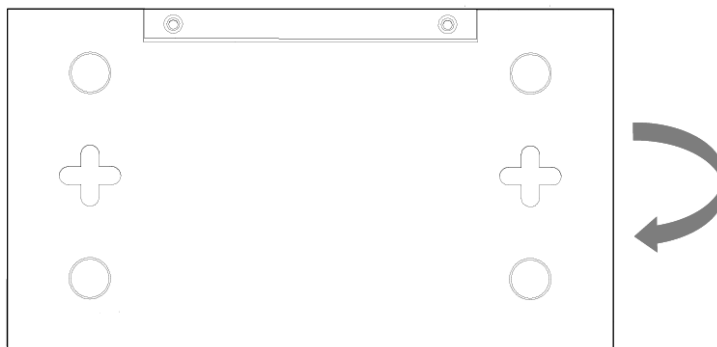

Figure 3-2 Schematic of wall-mounted installation

3.4 Enabling the Switch

Plug in first, then plug in DC, 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.

Appendix: Technical Specifications

Model	4GE(PoE)+1GE+1GE(PD) Web Smart PoE Switch
Standard	IEEE802.3, IEEE802.3 u, IEEE802.3z, IEEE802.3 3x, IEEE802.3az, IEEE802.3ab, IEEE802.3af, IEEE802.3at
Network Media(Cable)	10BASE-T: UTP category 3,4,5 cable（≤100m） 100BASE-TX: UTP category 5, 5e cable（≤100m） 1000BASE-T: UTP category 5e, 5 cable（≤100m）
MAC Address Table	8K, Auto-learning, Auto-aging
Jumbo Frame	9216Byte
Packet Buffer	4.1M bit
Transfer Mode	Store-and-Forward
Switching Capacity	12Gbps
Packet Forward Speed	8.93Mpps
Power Supply Mode	3-in-1 power supply and PoE power supply
PSE Port	Port1~4
PSE Power On RJ45	Mode A 1/2(+), 3/6(-)
PSE Power Output	Voltage: DC 54V, Power: 30W (MAX)
PSE Total Power	60W
PD Standard	IEEE802.3af, IEEE802.3at, IEEE802.3bt
PD Port	Port 6
PD Input	95W
Dimensions (L*W*H)	168*86*32mm
Input Voltage	AC 100-240V 50/60Hz
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