# User Guide

# Package Contents

**Check the following contents of your package:**

- PoE Switch （Tape terminal） x 1
- User's Guide x 1

The built-in precision device, please pay attention gently to avoid severe vibration, so as not to affect the performance of the equipment. If any part is lost and damaged, please contact your local agent immediately, we will give you a proper solution as soon as possible.
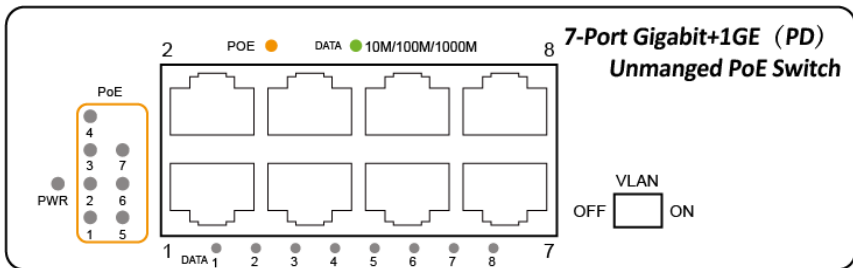
# 1. Introduction

Thank you for choosing this PoE Switch. It has 8-Port 10/100/1000Mbps Auto-Negotiation RJ45 Port. Among them, port1~7 is PSE port, each port support 32W (max) output. Port8 is PD port, support 95W input. This Power supply support external power supply and PoE power supply.

7GE(PoE)+1GE（PD）Uplink PoE Switch is easy to install and don't need to configuration. With outstanding performance and quality, the 8-port 10/100/1000Mbps desktop PoE switch is an ideal choice for expanding your home or office network.

# 2. Hardware Description

### 1. Front Panel

The Front Panel of the PoE Ethernet Switch Consists of 8-Port Ethernet Ports. The LED indicators are also located on the panel.

**LED indicator**

| LED | Color | Function |
|---|---|---|
| PWR | Green | Off:    No Power supply.<br>Light: Indicates the switch has power. |
| 10/100M/1000M | Green | Off:    No device is connected to the corresponding port.<br>Light: Indicates the link through that port is successfully established at 10/100/1000Mbps.<br>Blink: Indicates that the Switch is actively sending or receiving data over that port. |
| PoE | Orange | Off:    No PoE powered device (PD) connected.<br>Light: There is a PoE PD connected to be port, which supply power successfully.<br>Blink or off: Indicates port abnormal power supply. |

VLAN:

OFF: the factory default mode, can each other communication between port 1~8

ON :1-7 port isolated each other ,1-7 port can connect to 8 port after open VLAN to stop broadcast storm to increase forwarding rate of frame.

## 2.2. Side Panel

The Side panel have an connection terminal  and  accepts input DC power,  standard double redundant power backup 5 pinhole terminals.
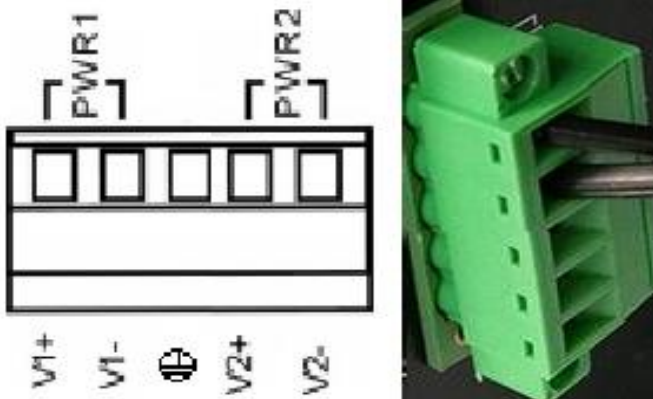
Figure:

### 2.3.Power input

The Side panel provides 5 power input terminal, the DC 48-57V ，where in the terminal labeled V1-, V1+, V2-, V2+；2 DC power input, V- V, the input voltage is 48-57V DC, the switch power supply DC input with redundant functions, and provide PWR1、PWR2 two power input， can be used alone, can also be connected to two independent DC power supply system, the use of a pair of terminal at the same time into the device. a power system failure, equipment can uninterrupted normal operation, and improves the network's reliability.

Figure:



## 3. Installation the Switch

This part describes how to install your Ethernet Switch and make connections to it. Please follow the following instructions in avoid of incorrect installation causing device damage and security threat.

# 1. Notice the matters

- Before cleaning the switch, unplug the power plug of the switch first. Do not clean the switch with wet cloth or liquid;
- Do not place the switch near water or any damp area. Prevent water or moisture from entering the switch chassis;
- Do not place the switch on an unstable case or desk. The switch might be damaged severely in case of a fall;
- Ensure proper ventilation of the equipment room and keep the ventilation vents of the switch free of obstruction;
- Make sure that the operating voltage is the same one labeled on the switch;
- Do not open the chassis while the switch is operating or when electrical hazards are present to avoid electrical shocks.

# 3.2. Installation environment

- Before the installation, should first confirm that there is a suitable working environment.
- Installation requirements
- Avoid direct sunlight, away from the heat source or strong electromagnetic interference
- Check cable and connector according to reasonable configuration requirements, the cable (<100m)
- The product does not provide installation component: screws, nuts and other installation tools
- Power requirements: DC power supply 48-57V
- Working temperature of -20°C～70°C；relative humidity is 5%～95%

# 3.3. Installation

This section describes how to install the Gigabit PoE switch and make connections to it ,please read the following topics and perform the procedures in the order being presented

3.3.1 DIN-rail mounting

Adopt the 45mm standard DIN card rail type installation, Check whether the DIN-rail rail mounting tool accessories (this product has supplied installation fittings) check whether the DIN rail is firm .

Figure:

The DIN card into the DIN rail rail connector, check and confirm the product reliable installation to DIN rail



**3.4.Turn on the switch**

Note:

● Power on operation: power supply terminal of the power line into the power supply interface device, plug the power plug, the switch will automatically be initialized at this time in addition, system reset successfully.

● power off operation: first unplug the power plug, and then remove the terminal wiring section, please note that the above order of operation.

## Specifications

| | |
|---|---|
| Model | 7GE（PoE）+1GE（PD） |
| Standard | IEEE802.3, IEEE802.3u,IEEE802.3ab, IEEE802.3az, IEEE802.3x, IEEE802.3af, IEEE802.3at |
| Network Media(Cable) | 10BASE-T: UTP category 3,4,5 cable (≤100m)<br>100BASE-TX: UTP category 5 cable (≤100m)<br>1000BASE-T: UTP category 5e,6 cable (≤100m) |
| MAC Address Table | 4K, Auto-learning, Auto-aging |
| Transfer mode | Store-and-Forward |
| Frame Forward Rate | 10Base-T: 14881pps/Port<br>100Base-TX: 148810pps/Port<br>1000Base-T: 1488095pps/Port |
| Switching Capacity | 16G |
| Dimensions (L*W*H) | 138*108*50mm |
| Fan | Fanless |
| Power supply | DC power or PoE |
| PSE Port | Port1~7 |
| PSE Power on RJ45 | Mode A    1/2(+),3/6(-) |
| PSE each port Power Output | Voltage: 55V DC    Power: 32W(Max) |
| PSE Power total Budget | 120W |
| PD Port | Port8 |
| PD Power on RJ45 | Mode A: 1/2(+),3/6(-) or Mode B: 4/5(+),7/8(-) |
| PD Port input | 95W |
| Temperature | Operating Temperature: -20°C ~ 70 °C (-4 °F ~158°F )<br>Storage Temperature: -40 °C ~ 75 °C (-40 °F ~167°F ) |
| Humidity | Operating Humidity: 10% ~ 90% non-condensing<br>Storage Humidity: 5% ~ 90% non-condensing |