

## **User Guide**

用 户 手 册

**4GE ( PoE ) +2GE 以太网 PoE 交换机**

**4-Port Gigabit+2GE PoE Switch**

## Package Contents

Check the following contents of your package:

- PoE Switch x 1
- User Guide x1
- Power Adapter x1
- Power Cord x 1
- Accessories(Rubber Feet\*4)

If any part is lost and damaged, please contact your local agent immediately.

## Introduction

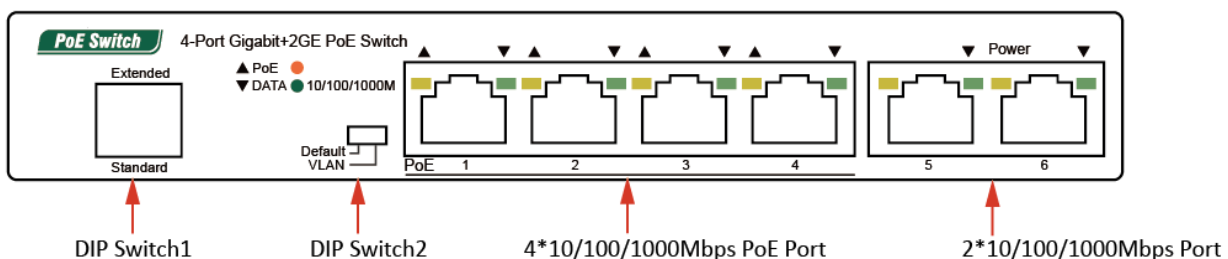
4GE (PoE) +2GE Switch is Fast uplink Switch which provides you with a high-performance, low-cost, easy-to-use, seamless and standard upgrade to boost your old network to 1000Mbps. Increase the speed of your network server and backbone connections, making Gigabit connection to a server or uplink a network necessarily.

Its PoE ports can automatically detect and supply power with those IEEE 802.3af/at compliant Powered Devices (PD). Support QoS, when the network overload or congestion, the first four ports according to 1: 2: 4: 8 weight configuration to ensure that important business is not delayed or discarded, to ensure the efficient operation of the network, The electrical power is transmitted along with data in one single cable allowing you to expand your network where, There are no power lines or outlets, where you wish to fix devices such as AP, IP Cameras or IP Phones, etc.

## Hardware Description

### Front Panel

The Front Panel Consists of Ethernet Ports. The LED indicators are also located on the panel.



### DIP Switch 1

#### Standard mode

Numbers 1-4 correspond to PoE Port1 ~ Port4.

This mode makes the PoE Switch operate as a general switch and all PoE ports operate at 10/100/1000Mbps auto-negotiation

## Extend mode

This mode makes the PoE ports of PoE Switch operate at auto-negotiation 10Mbps speed duplex mode only, but the delivery distance of PoE power and network data can reach 200m

## DIP Switch 2

**Default:** The factory default mode, can normal communication between port 1~6.

**VLAN:** 1-4 port can be isolated each other but 1-4 port can connect to 5/6 port after open VLAN to stop broadcast storm to increase forwarding rate of frame.

Note: The extended mode is based on the default and VLAN modes. If the default and VLAN files are switched, the extended mode will fail. You need to turn the switch from standard to extended.

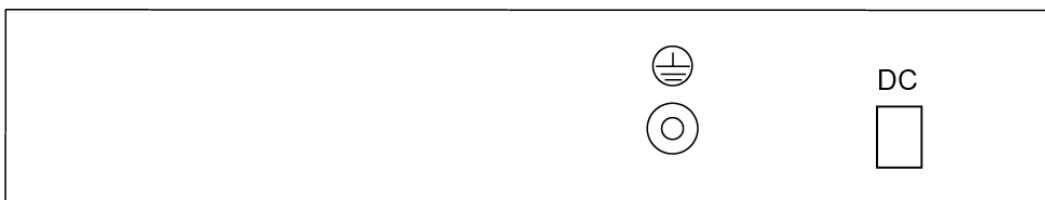
After changing the mode, no power failure is required to make the corresponding configuration take effect

## LED indicator

LED	Color	Function
Power	Orange	Off: No Power supply. Light: Indicates the switch has power.
DATA	Green	Off: No device is connected to the corresponding port. Light: Indicates the link through that port is successfully Established at 10/100/1000Mbps. Blink: Indicates that the Switch is actively sending or Receiving data over that port.
PoE	Orange	Off: No PoE powered device (PD) connected. Light: There is a PD connected to port, which Supply power successfully.

## Rear Panel

The rear panel of the PoE Switch indicates an DC inlet power socket and grounding column.



## Grounding column

The Grounding column is on the left side of the power supply interface. Please use wire grounding to prevent lightning strike.

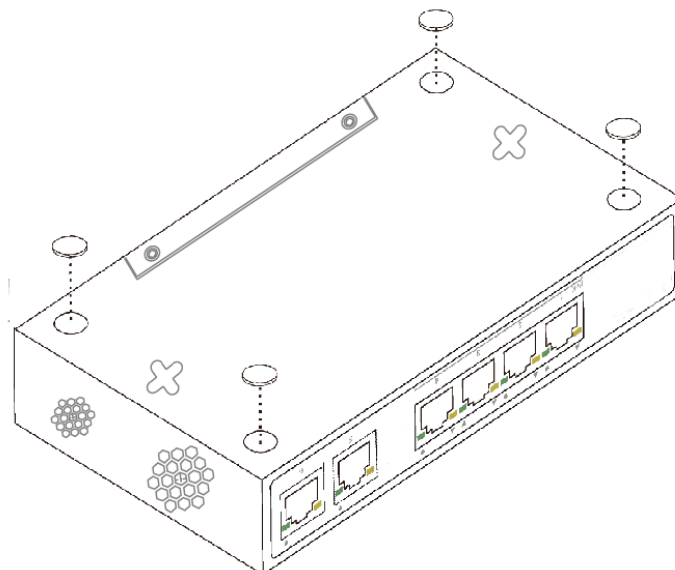
## Installation the Switch

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.

- 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.

## Desktop Installation

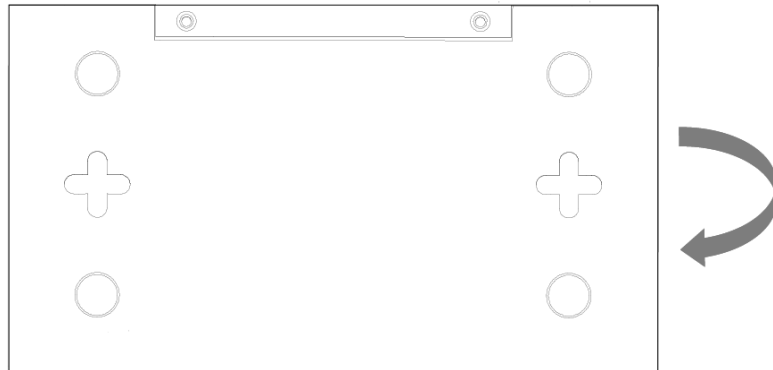
Install the Switch on a desktop, please attach these cushioning rubber feet provided on the bottom at each corner of the Switch in case of the external vibration. Allow adequate space for ventilation between the device and the objects around it.



## Wall-mounted installation

In the first two fixed screw on the wall as shown in the figure below

Aim at the two fixed hole switches, and the machine smoothly on the screw



## Turn on the switch

Please connect the DC power cord into the rear of the switch and to an electrical outlet (preferably one that is grounded). When the switch is power on, the LED indicators flash momentarily for one second, which represents a resetting of the system. The Power LED indicator turns on green.

Note: Please confirm the voltage is correct before power on, otherwise the switch will be damaged.

## Specifications

Model	4GE ( PoE ) + 2GE PoE Switch
Standard	IEEE802.3, IEEE802.3u, IEEE802.3ab ,IEEE802.3az, IEEE802.3x,IEEE802.3af, IEEE802.3at
Network Media	10BASE-T: UTP category 3,4,5 cable (≤100m) 100BASE-TX: UTP category 5 cable (≤100m) 1000BASE-T: UTP category 5e cable (≤100m)
MAC Address Table	4K, Auto-learning, Auto-aging
Transfer mode	Store-and-Forward
Frame Forward Rate	8.9Mpps
Switching Capacity	12G
Dimensions (L*W*H)	168*93*32mm
Fan	Fanless
PoE Port	Port1~4
PoE Power on RJ45	Mode A 1/2(+),3/6(-)
PoE Power Input	Voltage: 54.5V DC Power: 32W(Max)
PoE Power Budget	35W/65W(Optional)
Temperature	Operating Temperature: 0°C ~ 40 °C (32 °F ~104°F ) Storage Temperature: -40 °C ~ 70 °C (-40 °F ~158°F )
Humidity	Operating Humidity: 10% ~ 90% non-condensing Storage Humidity: 5% ~ 90% non-condensing

# 包装清单

小心打开包装盒，包装盒内应有以下物件：

- PoE 交换机 .....一台
- 用户手册 .....一本
- 电源适配器 .....一个
- 电源线 .....一根
- 安装附件（脚垫\*4）

如果发现有物件损坏或者短缺的情况，请及时和当地经销商联系。

# 产品简介

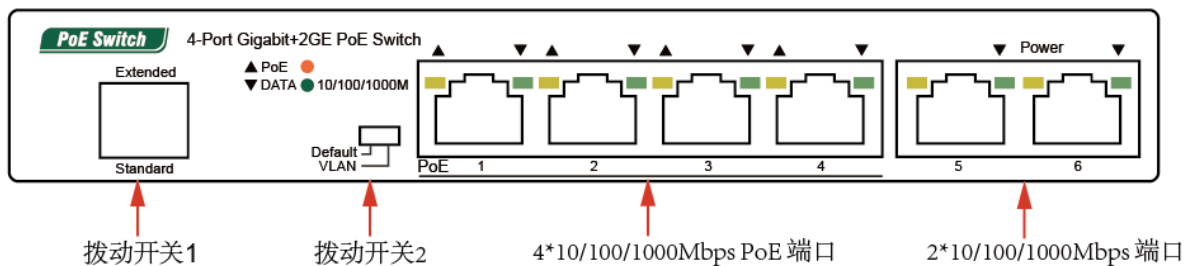
4GE ( PoE ) + 2GE 提供 6 个 10/100/1000Mbps 自适应 RJ45 端口，所有 RJ45 端口均支持线速转发与自动翻转功能，无需配置，即插即用。可 1~4 端口支持 PoE 功能，能自动检测符合 IEEE 802.3at/af 标准的 PD 设备，不需去担心会损坏非标 POE 设备或普通设备，每个 PoE 端口提供最大 32W 的电力。

POE 交换机是在传输数据信号的同时，还能能为一些基于 IP 的终端（无线接入点 AP、VoIP 电话及基于 IP 的监控摄像机）提供直流供电。使用一根标准的 CAT 5 网线，就能为无线 AP 和 IP 摄像机提供电力。它支持 QoS，当网络过载或拥塞时，前四个端口按照 1:2:4:8 进行权重配置，确保重要业务不受延迟或丢弃，保证网络高效运行，以太网供电（PoE）优化了受电端设备（PD）的安装和电源管理，为许多带 PoE 功能的网络设备缩减了安装的时间和成本。

# 外观描述

## 前面板

下列 PoE 交换机前面板示意图：



## 拨动开关 1

### 标准模式

数字 1-4 对应 PoE 端口 1 到端口 4；

这种模式下 PoE 交换机作为普通交换机运行，所有 PoE 端口运行速率 10/100/1000Mbps 自适应；

### 扩展模式

这种模式下 PoE 交换机的 PoE 端口在 10Mbps 速度双工模式下自动协商运行，电缆超过 100 米 低于 200 米远距离传输，仍可以支持 32W PoE 端口输出；

## 拨动开关 2

### 默认模式

当VLAN关闭时为出厂默认模式，此模式下相当于一台普通的PoE 交换机，端口 1~6之间能正常通信；

### VLAN 模式

开启 VLAN 功能后，系统工作在 VLAN 隔离模式，1~4 端口互相不能通信，只能与 5~6 端口进行数据交换，保证网络的安全和抑制网络风暴；

注意：Extended 模式基于Default、VLAN模式下实现，若Default、VLAN档之间进行切换时，Extended模式则失效，需要将开关由Standard 拨到Extended才可以实现。

更改以上设置后，不需要手动重启PoE交换机以使相应配置生效。

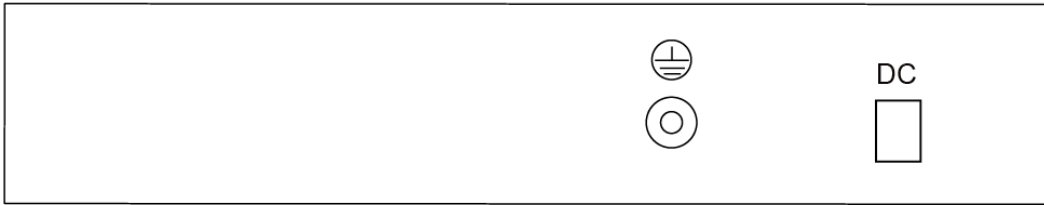
### LED 指示灯

指示灯	颜色	描述
Power	橙色	灭：没有连接设备 亮：设备正常连接
DATA	绿色	灭：没有连接设备 常亮：连接到10/100/1000Mbps网络设备 闪烁：正在传输数据
PoE	橙色	灭： PoE端口没有供电 常亮：PoE端口正在供电

### 后面板

PoE 交换机的后面板示意图: 直流电源接口和防雷接地柱





### 防雷接地柱

位于电源接口左侧，请使用导线接地，以防雷击。

## 安装设备

### 注意事项

为避免使用不当造成设备损坏及对人身伤害，请遵从以下的注意事项：

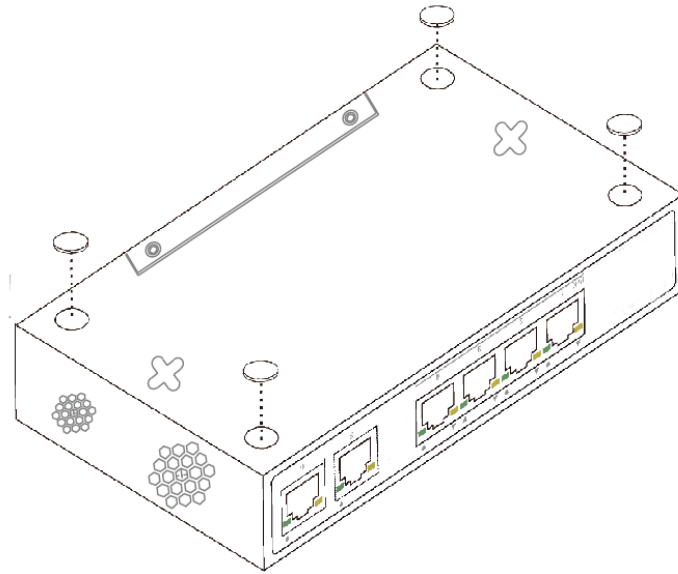
- 在清洁交换机前，应先将交换机电源插头拔出。不要用湿润的布料擦拭交换机，不可用液体清洗交换机；
- 请不要将交换机放在水边或潮湿的地方，并防止水或湿气进入交换机机壳；
- 请不要将交换机放在不稳定的箱子或桌子上，万一跌落，会对交换机造成严重损害；
- 应保持室内通风良好并保持交换机通气孔畅通；
- 交换机要在正确的电压下才能正常工作，请确认工作电压同交换机所标示的电压相符；
- 为减少受电击的危险，在交换机工作时不要打开外壳，即使在不带电的情况下，也不要随意打开交换机机壳。

### 桌面安装

将交换机的底部朝上放置于足够大且稳定的桌面上；

撕掉随机附带的脚垫表面的粘贴纸，将脚垫粘贴到交换机机壳底部的凹槽内以防外部振动；

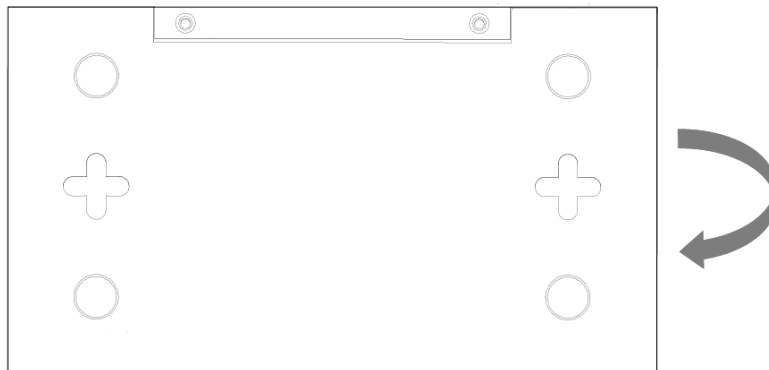
小心将交换机正置，放在工作台上。



## 壁挂式安装

请按照以下步骤安装 PoE 交换机：

在墙壁上先固定两颗螺钉 如下图所示对准交换机的两个固定孔，把机器平稳的挂在螺钉上



## 开启交换机

接上电源线，插上插头，接通电源。开机以后，交换机将自动进行初始化，所有的端口指示灯全亮后熄灭，表示系统复位成功。电源 LED 指示灯一直常亮。

**注意：上电前请确认电压是否正确，否则将损坏设备。**

## 技术规格

产品名	4GE ( PoE ) + 2GE PoE 交换机
标准	IEEE802.3、IEEE802.3u、IEEE802.3ab、IEEE802.3az、IEEE802.3x、IEEE802.3af、IEEE802.3at
网络介质	1000BASE-T: UTP category 5e cable (≤100m) 10BASE-T: UTP category 3,4,5 cable (≤100m) 100BASE-TX: UTP category 5 cable (≤100m)
MAC 地址表	4K 自动学习, 自动更新
传输模式	存储转发
包转发率	8.9Mpps
背板带宽	12G
尺寸 (长*宽*高)	168*93*32mm
风扇	无风扇
电压输入	54.5V DC
PoE 端口	Port1 ~ Port4
PoE 供电线对	Mode A 1/2 ( + ) , 3/6 ( - )
PoE 端口输出	电压 : 54.5V DC 功率 : 32W ( 最大 )
PoE 总功率	35W/65W(可选)
工作温度	0°C ~ 40 °C
存储温度	-40 °C ~ 70 °C
工作湿度	10% ~ 90% 无凝结
存储湿度	5% ~ 90% 无凝结