

非网管 PoE 以太网交换机 使用说明书

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一、产品简介

本系列交换机支持 IEEE802.3af/at 标准 PoE 供电、工业宽温、标准以太网数据转发功能，即插即用，无需软件配置即可稳定高速传输数据，适用于搭建高性能、高可靠性局域网传输场景。

二、安装环境要求

- 1. 温湿度条件
商用机型工作温度：0℃~50℃；工业机型宽温：-40℃~75℃；相对湿度 5%~95%，无凝露环境。
- 2. 通风散热：设备放置于通风良好区域，机身四周预留≥10cm 散热空间。
- 3. 电磁环境：远离强电磁干扰设备（微波炉、大功率电机等），避免信号异常。

三、安装与接线

- 1. 桌面安装
直接将交换机平稳放置在稳固台面，确保底部防滑垫充分接触平面。
- 2. 机架安装（机架式机型适用）
 - ◆ 使用螺丝将挂耳固定在交换机两侧；
 - ◆ 将整机装入标准 19 英寸机柜，螺丝固定挂耳至机柜立柱。
- 3. 线缆连接
 - ◆ 上行链路：使用网线连接核心交换机/路由器；带光口机型可搭配光模块光纤上联。
 - ◆ 下行终端：电脑、摄像头、AP 等终端设备通过网线接入 POE 供电端口。
 - ◆ POE 供电（PoE 机型）：网线直连支持 POE 的终端设备（IPC 网络摄像机），终端无需额外电源适配器。

四、调试与维护

- 1. 初始检查：通电后观察端口指示灯，Link 常亮代表物理连接正常，Act 闪烁代表正在传输数据。
- 2. 环路检测：网络出现卡顿、广播风暴时，大概率存在网线首尾相连形成环路。支持环路检测的机型，检测到环路后会自动阻塞对应的故障端口以保护网络。
- 3. 清洁维护：定期清理设备表面灰尘，保证散热通畅。

五、指示灯说明

指示灯标识	指示灯状态	指示灯状态含义
PWR 电源灯	常亮	表示正常通电
Link/Act 端口灯	常亮	表示线路连通
Link/Act 端口灯	闪烁	表示数据传输

六、常见问题解答

- Q：网线接好，但端口灯不亮？
A：检查网线水晶头压接是否完好，可更换确认正常的网线复测。
- Q：POE 交换机无法给设备供电？
A：确认受电设备兼容 802.3af/at 标准（如为非标设备请确认电压匹配）；确认网线为 8 芯全通的标准网线（部分百兆网络若只接 4 芯可能导致供电失败）；确认受电设备的单口功率未超过交换机单端口的最大输出功率；核对交换机整机 POE 功率，不可超过额定总功率。

七、安全注意事项

- 1. 请使用原厂配套电源，禁止使用规格不符适配器；
- 2. 室外组网务必做好设备接地保护，并建议增加防雷器，降低雷击损坏风险；
- 3. 请勿自行拆卸设备，拆机将失去质保。

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User Manual of Unmanaged PoE Ethernet Switch

BOSUNN Technology Co., Ltd.

1. Product Introduction

This series of switches supports IEEE802.3af/at PoE power supply, industrial wide-temperature and standard Ethernet forwarding functions. It is plug-and-play and requires no configuration for high-speed and stable data transmission. It is suitable for building high-performance and high-reliability local area networks.

2. Installation Environment Requirements

A. Temperature & Humidity: Commercial model: 0℃~50℃; Industrial model: -40℃~75℃., relative humidity 5%~95% non-condensing.

B. Ventilation: Install in well-ventilated place, reserve at least 10cm space around for heat dissipation.

C. EMI Protection: Keep away from strong electromagnetic interference devices such as microwave ovens and high-power motors.

3. Installation & Wiring

A. Desktop Installation

Place the switch steadily on flat surface, ensure anti-slip pads fully contact the platform.

B. Rack Mounting (For rackmount models)

◆ Fix mounting brackets on both sides of the switch with screws.

◆ Slide the device into standard 19-inch cabinet and fasten brackets on cabinet posts.

C. Cable Connection

◆ Uplink: Connect to core switch/router by network cable; models with SFP slot can use optical module for fiber uplink.

◆ Downlink terminal: Connect PC, cameras, AP to LAN ports via network cable.

◆ PoE Power Supply (PoE model): Directly connect PoE-supported devices such as IPC cameras, no extra power adapter needed for terminals.

4. Commissioning & Maintenance

A. Initial Inspection: After power on, check port LED indicator. Solid Link light means physical connection ready; blinking Act light means data transmission.

B. Loop Detection: Network congestion or broadcast storm may be caused by cable loop. Models with loop detection function will automatically block faulty port.

C. Maintenance: Regularly remove dust on surface to guarantee heat dissipation.

5. LED Indicator

LED	Status	Description
PWR	On	Power normal
Link/Act	On	Link established
Link/Act	Blinking	Data transmitting

6. FAQ

Q: Cable connected but port LED off?

A: Check RJ45 crimp quality, test with another confirmed good network cable.

Q: PoE switch cannot power devices?

A: ◆ Confirm the powered device complies with IEEE802.3af/at standard. Verify voltage matching for non-standard PoE devices.

◆ Use full 8-conductor Ethernet cable; partial-wiring cables may cause insufficient PoE power.

◆ Power consumption of single PoE terminal shall not exceed the switch's single-port maximum output power.

◆ Total PoE load of all connected terminals shall not exceed the unit's rated total PoE power budget.

7.Safety Notice

- A. Only use original matched power adapter. Do not use unmatched power supply.
- B. For outdoor deployment, proper equipment grounding is mandatory. Signal surge protectors are strongly recommended to reduce lightning- strike damage risk.
- C. Do not disassemble the device arbitrarily. Disassembly voids warranty.

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