

# User Manual

LKSPOE8G

10 Port Gigabit AI PoE switch



## Overview:

LKSPOE8G is a 10-port Gigabit AI POE switch. It has 4 working modes, AI VLAN mode, AI CCTV video monitoring mode, AI power mode, AI QOS mode. All ports are free to communicate by default; In AI VLAN mode, 1 -8ports are isolated from each other, which can effectively restrain network storms and improve network performance. In AI Extend mode, the effective transmission distance of 1-8 ports can reach 250 meters, which is suitable for remote monitoring and power supply. In the AI power supply mode, the switch automatically detects the working status of the PD device and finds that the device abnormal automatically restarts the device. In AI QOS mode: the video data will be processed preferentially when the device is congested to make the video smoother

The device supports IEEE 802 af/at standard, which can automatically detect and identify the PDs that comply with the IEEE 802 af/at standard and provide power for them, so there is no need to worry about PoE or non-PoE devices that can damage private standards.

## Key Features

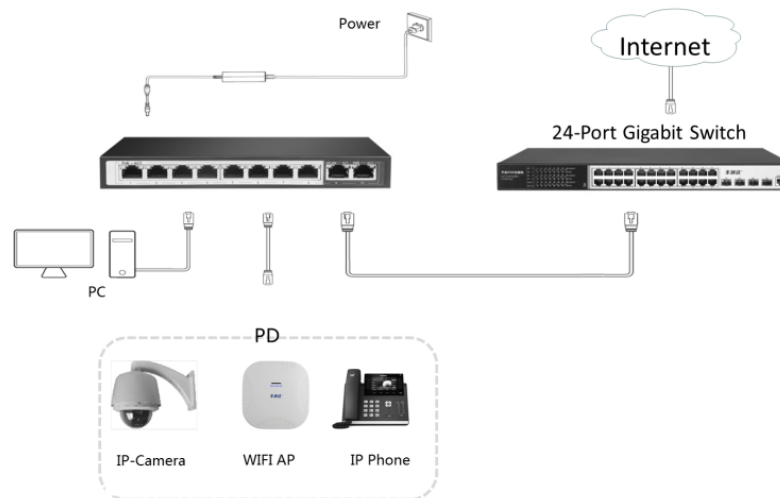
- **AI Extend:** 1-8 port supports 250M meters long distance power supply (recommended cat 5 or above)
- **AI VLAN:** Isolating ports 1-8 from each other, restrain network storms effectively and improve network performance
- **AI QOS:** Prioritize the identified video data to make video transmission smoother
- **AI PoE:** Automatic detection power of port, power off and restart the device if find dead machine
- Supports IEEE 802.3af/at standard, automatically detects and identifies devices that comply with the IEEE 802.3af/at standard and supply power to it
- Support Auto MDI/MDIX;
- Adopt store-and-forward exchange method
- Intelligent power supply, the lowest power consumption, ensure PD power needs
- With power circuit protection, protect the safety of PD
- No configuration characteristics of the power supply is automatically supplied to the adaptive equipment;
- Fanless design, energy saving and environmental protection; no noise, reduce the impact on the environment
- Compact size design
- Support port without link power saving function

- All ports have wire-speed forwarding capability
- Plug and play, easy to use

## Technical Specification

|                               |  |
|-------------------------------|--|
| Network Port                  | · 8 10/100/1000Mbps PoE RJ45 port (port 1~port 8)                        |
|                               | · 2 10/100/1000Mbps non-POE RJ45 port(port 9~port 10)                    |
| Transfer Rate                 | ·1000Mbps full Duplex,   |
| Network protocol and standard | ·IEEE802.3i, IEEE802.3u, IEEE802.3x, IEEE802.3ab,IEEE802.3af IEEE802.3at |
| Performance                   | ·Bandwidth: 20Gbps(no block)   |
|                               | ·Frame filtering and transmission rate:                                  |
|                               | 10M port maximum 14,800pps   |
|                               | 100M port maximum 148,800pps   |
|                               | 1000M port maximum 1, 488, 000pps  |
| LED indicator                 | ·Power   |
|                               | RESV   |
|                               | ·LINK/ACT  |
| POE Pin                       | 1/2/4/5(+), 3/6/7/8(-)   |
| Power                         | ·Max. output power single port: 30W                                      |
|                               | ·Max Power supply: 96W   |
| Dimensions                    | ·Size (LxWxH): 184mm*94mm*27mm   |
|                               | ·Weight: 0.8kg   |
| Environment                   | ·Operating Temperature: 0°~40°C  |
|                               | ·Operating Humidity:: 10%~90%, Non-condensing                            |
| safety regulations            | ·CE/ROHS/FCC/CCC   |

## Installation diagram



## Indicator Status:

| Indicator          | Indicator Description           | Normal Status   | Abnormal Status   |
|--------------------|---------------------------------|-----------------|---|
| PWR Indicator      | Power Indicator                 | Yellow light on | If the light is not on, Please check external socket power supply if it is normal/adaptor power connection if is correct or not etc..   |
| LINK/ACT Indicator | PD device connection indication | Green light on  | If the light is not on. Please check the corresponding RJ45 port if connected network devices, POE power normal, cable connected correctly, cable damaged, network devices destroyed or not etc.. |

## Caution

1. In order to safety, please non-professionals don't open the casing of product;
2. Please be careful the risk of strong current and security protection when products carry power;
3. Please select the right power adaptor provide power for PoE switch, before using please confirm if is it accord with the requirement of PoE switch;
4. Please don't use PoE switch under the humid environment, avoiding water go into the product inside caused PoE switch breakdown.
5. Please start the power after the circuit connected;
6. Please don't plug-in and plug-out the connection cable when product is carrying on power;
7. Please don't use PoE switch under somewhere with more dust and EME;
8. Please don't put heavy thing on PoE switch, in order to having an accident.;
9. According to the IEEE802.3AF/AT standard, Please use the Cat.5 or above, transmission distance 250 m;
10. Please don't exceed the maximum output power of PoE switch when it connect more than one PD device;
11. Suggestion that PoE switch use for indoor, if you want to use for outdoor, Please install waterproof box