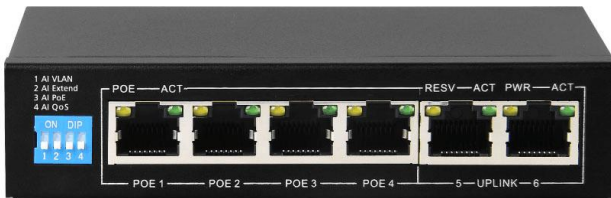# User Manual

AI106G-Apollo

6 Port Gigabit AI Cloud PoE Switch

Overview

AI106G-Apollo is 6 port Gagibit AI PoE switch with 4 working modes, support the management of Apollo cloud , AI VLAN mode, AI Extend mode, AI power mode, AI QoS mode. By default, all ports are free to communicate; when AI VLAN mode is enabled, 1-4 ports are isolated from each other, which can effectively suppress network storms and improve network performance. In the AI Extend mode 1-4 ports can effectively transmit distances up to 250 meters, which is suitable for remote monitoring and power supply. In the AI power mode, the switch automatically detects the working status of the PD device and finds that the abnormal device automatically restarts the device. In the AI QoS mode, when the device is congested, the video data is processed preferentially to make the video smooth. The device supports the standard IEEE 802 af/at protocol, 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.
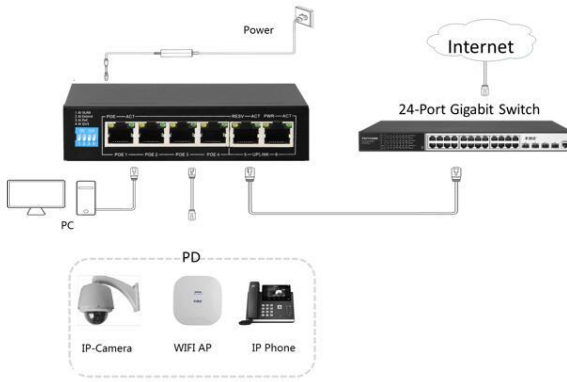
Main characteristics

- **AI Extend:** 1-4 ports support 250 meters long distance power supply (should be use cat5e or cat6 cable)
- **AI VLAN:** Isolating ports 1-4 to each other can effectively suppress network storms and improve network performance.
- **AI QoS:** Prioritize the identified video data to make video transmission smoother
- **AI PoE:** Automatically detect the power receiving port, find the dead device, power off and restart the device
- Support the management of Apollo cloud
- Support wireless access points (APs) and network surveillance cameras via Cat 5 cables;
- Support IEEE802.3af/at standard PD device；
- Supports uplink port auto-flip (Auto MDI/MDIX)
- Adopt store-and-forward exchange mechanism
- Intelligent power supply, lowest power consumption, ensure the power demand of the PD terminal
- With power circuit protection, it can protect the security of the back-end equipment;
- Zero configuration feature power is automatically supplied to the adaptive device;
- No fan design to achieve energy saving and environmental protection;
- Support port no link power saving function;

Specification :

Network Port	· 4 10/100/1000Mbps PoE RJ45 port (Port 1~ port4)
	· 2 10/100/1000Mbps RJ45 port uplink(Port5~port 6)
Transfer Rate	· 1000Mbps full Duplex
Network protocol and standard	· IEEE 802.3i、 IEEE 802.3u、 IEEE 802.3x、 IEEE 802.3af, IEEE 802.3at,,IEEE802.3ab
Performance	·Bandwidth：12Gbps (no block))
	·Frame filtering and transmission rate:
	10M port maximum 14,880pps
	100M port maximum 148,810pps
	1000M port maximum 1,488,100pps
LED indicator	· Power
	·RESV
	·LINK/ACT
PoE pin	1/2(+)，3/6(-)
Power	·Max power for single port30W .
	·External power adapter：60W ;
Dimensions	·Size（LxWxH） : 125mm x 75mm x 27mm
	·Weight：0.5kg
Environment	·Operating Temperature：0°~40℃
	·Operating Humidity：10%~ 90% ，Non-condensing
safety regulation	· CE/ROHS/FCC/CCC

Installation diagram :

Indicator Status:

Indicator	Indicator Description	Normal Status	Abnormal Status
PWR Indicator	Power Indicator	Yellowlight on	If the light is not on, Please check external socket power supply if it is normal/adapter power connection if is correct or not etc..
LINK/ACT Indicator	PDdevice 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 :

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.