User Manual

AI2082G

8 Port AI PoE Switch with 2GE Uplink

Product Overview:

AI2082G is a Gigabit uplink 8-port 100M PoE switch, support the management of Apollo cloud.It has three working modes, It has 4 working modes, AI VLAN mode, AI Extend video monitoring mode, AI PoE 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 AI2082G supports the standard IEEE 802.3 af/at protocol, which can automatically detect and identify the PD devices and supply power, therefore, Don not worry about PoE or non-PoE devices that can damage private standards.
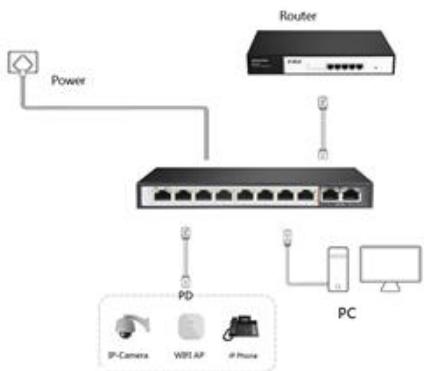
Key Features:

➢ **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

➢ Support standard IEEE 802.3 af/at protocol, automatically detect and identify the PD devices comply with IEEE 802.3 af/at protocol and supply power.

➢ Support the management of Apollo cloud.

➢ Support upward port auto MDI/MDIX.

➢ Adopted storage forward switching system.

➢ Smart power and minimum consumption, guarantee PD requirement.

➢ power supply circuit protection function and protection back-end device safety

➢ Automatically provide the adaptive device

➢ Fanless design realize saving energy and environment protection

➢ Compact size design

➢ Support saving power function when port dis-connection

➢ All Ports support Wire-speed forwarding capability

➢ Plug and play, easy using without configuration.

Specification:

Network Port	·8 10/100Mbps PoE RJ45 port (port 1 ~ port 8)
	· 2 10/100/1000Mbps Non-PoE RJ45 port (port 9 ~ port 10)
Transfer Rate	· 100Mbps full Duplex, 10 or 100Mbps Half Duplex
	· Network interface: 10BASE-T or 100BASE-TX Ethernet RJ-45 port
Performance	· Bandwidth: 5.6Gbps (no block)
	· Frames filter and transfer rate :
	10M port maximum 14,800pps
	100M port maximum 148,800pps
	1000M port maximum 1,488,000pps
Network protocol and standard	· IEEE 802.3i 10BASE-T
	· IEEE 802.3u 100BASE-TX
	· IEEE 802.3x Flow Control
	· IEEE 802.3af/at Power over Ethernet
Power pin	1/2 (+) , 3/6 (-) ;
LEDs indicator	· Power
	LINK/ACT,
	·RESV: reserve
Power	· Total power: 96W
	· Single port maximum output power: 30W
Dimensions	· Size (LxWxH) : 184mm x 94mm x 27 mm
	· Weight : 1.35kg
Environment	· Operating Temperature : 0°~45℃ (32°~113℉)
	· Storage Temperature : -20℃~90℃ (-4°~194℉)
	· Working Humidity : 10%~90% (Non-condensing)
	· Storage Temperature : 5%~90% (Non-condensing)
Certifications	· CE/FCC/RoHS/CCC

Connection diagram

Indicator Status :

Indicator	Indicator Description	Normal Status	Abnormal Status
Power light	Power Indicator	Yellow ok	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	PD devices connected indication	Green ok	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..

Application Suggestion

1) All operation should be provided only by a qualified service technician.

2) Make sure the PDs you connected to the Switch are compliant with IEEE 802.3af/at

3) Make sure the power is off before unplugging the power adapter.

4) Makes sure all PoE PDs power consumption is less than total power

5) Please avoid any heavy thing placed on the Switch.

6) Do not use this product near water, for example, in a wet basement or near a swimming pool.

7) Avoid using this product during an electrical storm. There may be a remote risk of electric shock from lightning.

8) For outdoor use, the Switch itself should be housed inside a protective enclosure.

9) Cutting power during a firmware upgrade can damage your device.

10) Only use attachments/accessories specified by the manufacturer.

11) Opening the switch or tampering with the warranty sticker can void your warranty.