Foredge

24-Port 100Mbps
AI PoE Switch
AI8024

Product brochure

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Product introduction

AI8024 is an AI PoE switch specially designed for security transmission and WIFI coverage. It can meet the PoE power supply requirements of various types of devices such as WIFI AP, IP-camera, WIFI bridge, and IP phone. The product has 24 100M PoE ports, 2 gigabit RJ45 ports and 1 gigabit SFP port (25 ports are gigabit combo), which are suitable for network access and edge aggregation. The product has 4 working modes, AI VLAN mode, AI Extend mode, AI PoE mode, AI QoS mode. By default, all ports communicate freely. AI VLAN mode is enabled to isolate ports 1-24 from each other, which can effectively suppress network storms and improve network performance; When enable AI Extend mode, the effective transmission distance of 1-8 ports can reach 250 meters, which is suitable for long-distance monitoring and power supply; When enable AI PoE mode, the switch automatically detects the working condition of the PD device, and automatically restarts the device when abnormal devices are found; When the AI QoS mode is enabled, the video data will be prioritized when the device is congested to make the video smoother. It is the best choice for PoE networking in hotels, campuses, factory dormitories and small and medium-sized enterprises.

Main features:

Port 6KV lightning protection

• All ports support 6KV lightning protection, support power supply over-temperature protection, over-voltage protection, surge current protection and other protection features.

Switching feature

• Non-blocking switching architecture, all ports support wire-speed forwarding.
• Provide 2 gigabit RJ45 ports and 1 multiplexed gigabit SFP port at the same time.
• Supports IEEE 802.3x full-duplex flow control and half-duplex backpressure flow control.
• Supports auto-flipping of upstream ports (Auto MDI/MDIX)

AI DIP Switch

• AI Extend: 1-8 ports support 250 meters long-distance power supply (recommended to use super five or more network cables);
• AI VLAN: Isolate ports 1-24 from each other, which 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 a dead device, and restart the device after power off;

PoE features

• Compliant with the IEEE802.3af&at standard, the maximum PoE power of a single port is 30W.
• Support PoE short circuit protection, over current protection, over temperature protection, etc.
• Support AI PoE, restart dead device

Ease of use

• Plug and play, no configuration required, easy to use.
• Zero configuration feature, power is automatically supplied to adaptive devices.

Product Specifications:

Network interface	● 24 10/100Mbps RJ45 PoE ports,1-8 ports can support 250meters long distance ● 1 10/100/1000Mbps RJ45 port ● 1 Gigabit SFP Combo port
protocol	● IEEE 802.3i、 IEEE 802.3u、 IEEE 802.3x、 IEEE 802.3z、 IEEE 802.3ab、 IEEE 802.3af、 IEEE 802.3at
Performance Specifications	● Backplane bandwidth: 8.8Gbps (non-blocking) ● Packet forwarding rate: 6.5Mpps ● MAC address table: 8K ● Forwarding mode: store and forward
LED indicator	● 26 Link/Act indicators ● 24 PoE indicators ● 1 Power light
PoE Pin	● 1/2(+)，3/6(-)
Power Supply	● Single port maximum output power: 30W ● The maximum power of the whole machine: 250W
Size	● (LxWxH)：440mm*180mm*44mm
Environmental Specifications	● Working temperature: 0℃~40℃ ● Storage temperature: -40℃～70℃ ● Working humidity: 10%~ 90% RH without condensation ● Storage humidity: 5%~90% RH without condensation
safety standard	● CE/ROHS/FCC/CCC

Networking application: