Foredge

24-Port Gigabit AI PoE Switch
AI1024G

Product brochure

Product Introduction：

AI1024G is an AI PoE switch designed specifically for security transmission and WIFI coverage, which can meet the PoE power supply needs of various types of devices such as WIFI AP, IP camera, WIFI bridge, IP phone, etc. The product has 24 Gigabit PoE ports and 2 Gigabit SFP optical ports, suitable for network access and edge convergence. The product has four working modes: AI VLAN mode, AI Extend mode, AI PoE mode, and AI QoS mode; By default, all ports communicate freely, enabling AI VLAN mode and isolating 1-24 ports from each other can effectively suppress network storms and improve network performance; Enable AI Extend mode, with an effective transmission distance of up to 250 meters for 1-8 ports, suitable for long-distance monitoring and power supply; Enable AI PoE mode, the switch automatically detects the working condition of the PD device end, and restarts the device automatically when abnormal devices are found; Enabling AI QoS mode will prioritize the processing of video data in case of device congestion, making 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 SFP uplink ports 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 Smart Button

• 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.

Use-Friendly

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

Product Specifications :

Network Interface	●24 * 10/100/1000M RJ45 PoE ports (Port 1~Port 24) ●2 * SFP ports (port 25~port 26)
Network Protocol Standard	● IEEE 802.3i, IEEE 802.3u,IEEE 802.3x,IEEE 802.3ab,IEEE 802.3af,IEEE 802.3at
Performance Specifications	●Backplane bandwidth: 52Gbps (non-blocking) ●Packet forwarding rate: 38.7Mpps ●MAC address table: 8K ●Forwarding Mode: Store and Forward
LED Indicator	● 1 Power indicator ● 24 LINK/ACT indicator ● 24 PoE indicator ● 2 SFP indicator
POE Pin	●1/2(+) , 3/6(-) ;
Power Support	●The maximum output power of a single port is 30W. ●Maximum power supply: 250W;
Physical Specifications	●Dimensions (LxWxH): 440mm×180mm×44mm
Environmental Specifications	● Working temperature: 0°C~40°C ● Storage temperature: -40℃ ~ 70℃ ● Working humidity: 10%~ 90% RH without condensation ● Storage humidity: 5%~90% RH without condensation
Safety Regulations	●CE/ROHS/FCC

Networking Application