

Foreedge

**24-Port long distance AI
PoE switch**

AI6024H

Product Brochure

Product Introduction

AI6024H is a 24 port AI PoE switch designed specifically for security transmission, WIFI coverage, and other non managed ultra long distance transmission. Among them, 17-24 ports can support ultra long distance 500 meter transmission at a speed of 100Mbps (paired with a long-distance separator), which can solve the problem of long-distance power supply transmission in network monitoring engineering. It can replace fiber optics and network extenders, solve the problem of difficulty in ultra long distance power supply, and reduce engineering costs. The product has 24 gigabit PoE ports, 2 gigabit RJ45 ports, and 1 gigabit SFP (25 ports are gigabit combos) suitable for network access and edge convergence. The device supports the standard IEEE 802 af/at protocol and can automatically detect, identify, and power PD devices that comply with the IEEE 802 af/at standard.



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.

Exchange feature

- Non-blocking switching architecture, all ports support wire-speed forwarding.
- Provide 2 gigabit RJ45 ports and 1 SFP combo uplink 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 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 Feature

- 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.

Easy of use

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

Specification

Network Interface	<ul style="list-style-type: none"> ● 24 10/100Mbps RJ45 PoE ports, of which 17-24 ports can support 100M ultra-long distance 500 meters transmission (used with long-distance splitter) ● 2 10/100/1000Mbps RJ45 ports ● 1 Gigabit SFP Combo port
network protocol	<ul style="list-style-type: none"> ● IEEE 802.3i、 IEEE 802.3u、 IEEE 802.3x、 IEEE 802.3z、 IEEE 802.3ab、 IEEE 802.3af、 IEEE 802.3at
Performance Specifications	<ul style="list-style-type: none"> ● Backplane Bandwidth: 8.8Gbps (non-blocking) ● Packet forwarding rate: 6.5Mpps ● MAC address table: 8K ● Forwarding mode: store and forward
LED Indicator	<ul style="list-style-type: none"> ● 26 Link/Act indicators ● 24 PoE indicators ● 1 Power indicator
PoE foot position	<ul style="list-style-type: none"> ● 1-16□ : 1/2(+) , 3/6(-) ● 17-24□ : 1/2/4/5(+) , 3/6/7/8(-)
Power support	<ul style="list-style-type: none"> ● Single port maximum output power: 30W ● The maximum power of the whole machine: 250W
Physical Specifications	<ul style="list-style-type: none"> ● Dimensions (LxWxH): 440mm*180mm*44mm
Environmental Specifications	<ul style="list-style-type: none"> ● Operating temperature: 0°C~40°C ● Storage temperature: -40°C ~ 70°C ● Working humidity: 10%~ 90% RH without condensation ● Storage humidity: 5%~90% RH without condensation
safety regulations	<ul style="list-style-type: none"> ● CE/ROHS/FCC/CCC

Networking application

