# Foredge

# 6-Port 100M AI PoE Switch
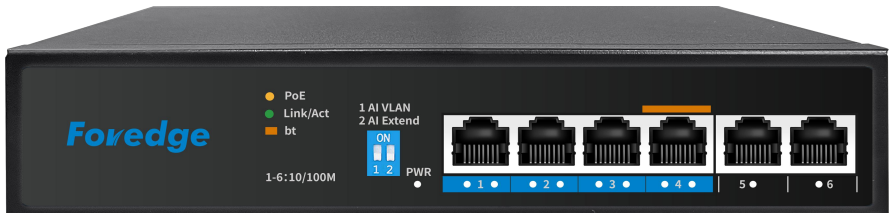
# AI806M

# Product Brochure

# Product Introduction:

AI806M is a 6-port 100M built-in power POE switch that supports AI intelligent recognition and long-distance mode recognition; AI PoE automatic recognition, automatic detection of powered ports, detection of dead devices, power off and restart the dead device; The device supports the IEEE 802.3 af/at standard protocol and can automatically detect, identify, and power PD devices that comply with the IEEE 802.3 af/at standard, so there is no need to worry about damaging private standard PoE or non PoE devices; Port 4 supports IEEE802.3bt with a maximum power of 60W.

# Main Features:

### Port 6KV Lightning Protection

- All ports support 6KV lightning protection, PSE short-circuit protection, PoE overload, power supply over-temperature protection, over-voltage protection, surge current protection and other protection features.

### Switching Performance

- Non blocking switching architecture, all ports support wire speed forwarding;
- Provide two 10/100M RJ45 uplink simultaneously;
- Support IEEE 802.3x full dual and half dual backpressure flow control.
- Support port automatic flipping (Auto MDI/MDIX).

### AI Smart Button

- AI VLAN: Isolate ports 1-4 from each other, which can effectively suppress network storms and improve network performance;
- AI Extend: 1-4 ports support 250 meters long-distance power supply (recommended to use super five or more network cables).

### AI Intelligent Recognition

- Intelligent recognition of long-distance mode, adaptive deceleration from 130 meters (100M/S) to 250 meters (10M/S);
- AI PoE automatic recognition, automatic detection of powered ports, detection of dead devices, power off and restart the device.

### PoE Features

- Complies with the IEEE802.3af&at standard, with a maximum PoE power of 30W per port;
- Support PoE short circuit protection, overcurrent protection, over temperature protection, etc;
- Port 4 supports IEEE802.3bt with a maximum power of 60W.

### Ease of Use

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

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# Specification：

| | |
|---|---|
| **Networking Ports** | ● 4*10/100Mbps  PoE  RJ45 ports（port1~port4）<br>● 2*10/100Mbps RJ45 ports（port5~port6） |
| **Networking Standards** | ● IEEE 802.3i、 IEEE 802.3u、IEEE 802.3x、IEEE 802.3af、IEEE 802.3at、IEEE 802.3bt |
| **Performance** | ● Bandwith：1.2Gbps<br>● Packets Forwarding Rate：0.89Mpps<br>● MAC table size：1K<br>● Forwarding type：Storatge and Forwarding |
| **LED Indicator** | ● Power Indicator<br>● LINK/ACT Indicator<br>● PoE Indicator |
| **PoE** | ● 1/2(+)，3/6(-) |
| **Power** | ● Port 4 max power：60W<br>● PoE budget：65W |
| **Dimension** | ● W*D*H：190mm*131mm*40mm |
| **Evironment** | ● Working Temperature：0°~40℃<br>● Storage Temperature：-40℃～70℃<br>● Working Humidity：10%~ 90% RH nun-condensing<br>● Storage Humidity：5%~ 90% RH nun-condensing |
| **Safty Compliance** | ● CE/ROHS/FCC/CCC |

# Networking Application: