

**Fore**edge

**8-port 100Mbps  
AI PoE switch  
AI806**

**Product brochure**

## Brief Introduction :

AI806 is a 6-port 100M built-in power supply POE switch, the product has 3 working modes, standard mode, VLAN mode, Extend mode.

**Enable** standard mode, all ports communicate freely in standard mode.

**enable VLAN mode**, to isolate ports 1-4 from each other, which can effectively Suppress network storms and improve network performance;

**enable Extend mode**, the effective transmission distance of 1-4 ports can reach 250 meters, which is suitable for long-distance monitoring and power supply.

The device supports the IEEE 802.3 af/at standard protocol, and can automatically detect, identify and supply power to 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.



## Main characteristics :

### Port 6KV lightning protection

- The full port supports 6KV lightning protection, supports power supply over-temperature protection, over-voltage protection, inrush current protection and other protection features.

### Switch feature

- Non-blocking switching architecture, all ports support wire-speed forwarding.
- Provides two 10/100M RJ45 uplink ports at the same time.
- Supports IEEE 802.3x full-duplex and half-duplex backpressure flow.
- Supports uplink port auto-rollover (Auto MDI/MDIX).

### One-click mode switching

- Standard mode: All ports communicate freely, as a common unmanaged PoE switch;
- VLAN mode: 1-4 ports are isolated from each other, which can effectively suppress network storms and improve network performance;
- Extend mode: 1-4 ports support 250 meters long-distance power supply (recommended to use super five or more network cables);

### PoE features

- Complies with IEEE802.3af/at/bt standards, with a maximum PoE power of 30W per port.
- Support PoE short circuit protection, overcurrent protection, over temperature protection, etc.
- Support AI PoE, restart dead devices.

### Ease of use

- Plug to use, no configuration required, easy to use.
- Zero configuration feature, the power supply is automatically supplied to the adaptive device.

## Product Specifications:

<b>Network interface</b>	<ul style="list-style-type: none"> <li>• 4x 10/100Mbps PoE-enabled RJ45 ports (ports 1 to 4)</li> <li>• 2 x 10/100Mbps non-PoE function RJ45 ports (ports 5 ~ 6)</li> </ul>
<b>Network protocol standards</b>	<ul style="list-style-type: none"> <li>• IEEE 802.3i、 IEEE 802.3u、 IEEE 802.3x、 IEEE 802.3af、 IEEE 802.3at</li> </ul>
<b>Performance specifications</b>	<ul style="list-style-type: none"> <li>• Backplane bandwidth: 1.2Gbps (non-blocking)</li> <li>• Packet forwarding rate: 0.89Mpps</li> <li>• MAC address table: 1K</li> <li>• Forwarding mode: Store-and-forward</li> </ul>
<b>LED indicator</b>	<ul style="list-style-type: none"> <li>• Power LED</li> <li>• LINK/ACT indicator</li> <li>• PoE indicator</li> <li>• RESV: Reserved</li> </ul>
<b>PoE bits</b>	<ul style="list-style-type: none"> <li>• 1/2(+), 3/6(-)</li> </ul>
<b>Power support</b>	<ul style="list-style-type: none"> <li>• Single port maximum output power: 30W</li> <li>• The maximum power supply of the whole machine: 60W</li> </ul>
<b>Dimension</b>	<ul style="list-style-type: none"> <li>• Size (length x width x height): 190mm*131mm*40mm</li> </ul>
<b>Environmental specifications</b>	<ul style="list-style-type: none"> <li>• Working temperature: 0 °C ~ 40 °C</li> <li>• Storage temperature: -40 °C ~ 70 °C</li> <li>• Working humidity: 10% ~ 90% RH does not condense</li> <li>• Storage humidity: 5%~90% RH non-condensing</li> </ul>
<b>Safety specifications</b>	<ul style="list-style-type: none"> <li>• CE/ROHS/FCC/CCC</li> </ul>

## Networking applications

