

# 6 Ports Gigabit Managed Industrial PoE Switch

## PRODUCT OVERVIEW

6-port Gigabit Industrial Ethernet PoE Switch, 4 Gigabit PoE Ports + 2 Gigabit SFP Port + 1 Console port, supporting Din rail and wall mounting. Supports dual power input (DC48-55V), -40 to 75°C working temperature; Certified by industrial environment and support FCC, CE, CCC, RoHS standards; Reliable industrial design ensures uninterrupted automation system Stable operation.

This series of industrial grade switches can be widely used in wind power, electric power, assembly automation, subway PIS, electric power SCADA, sewage treatment, metallurgy, intelligent transportation, rail transportation, military and other industries. It is a green low-power industrial Ethernet switch.

This series of switches provides advanced network management capabilities: redundant ring, loop protection, VLAN, QOS, speed control, port mirroring, and firmware online upgrades. With standardized industrial design, it can meet the stringent requirements of industrial sites. All components use industrial grade for greater reliability, providing redundant, wide-voltage power inputs and outputs for uninterrupted industrial safety communications.



## MAIN FEATURES

- Support IEEE802.3, IEEE802.3u, IEEE802.3x, IEEE802.3z / ab, IEEE802.1Q, IEEE802.1p, IEEE802.1d/w.
- PoE Power Management, PoE Watchdog based on data stream detection.
- Support IEEE802.3af (15.4w), IEEE802.3at (30W).
- Support STP (802.1D), RSTP (802.1w), MSTP (802.1s), ERPS.
- Support SNMP v1/v2/v3.
- Support IGMP Snooping, Static multicast filtering and MLD Snooping.
- Support 802.1x port and AAA Certification, Enhance network security.
- Support WEB, Telnet, CLI, SSH management.
- IP40 protection, rugged high-strength metal case, DIN35 Rail mounting.
- EMC grade 4 design, -40 to 75°C working temperature.
- Support Redundant power supply access, support anti-reverse connection.
- Surge Protection: General 6KV, Differential 4KV; ESD 15KV(Air), 8KV (Contact)
- Support EMC EN55032 standard.

## APPLICATION SITUATIONS:

- Metropolitan area fiber broadband network: telecommunications, cable TV, network system integration, etc., network operators.
- Broadband private network: Suitable for financial, government, oil, railway, electric power, public security, transportation, education and other industries.
- Multimedia transmission: image, voice, data integrated transmission, suitable for remote teaching, conference TV, videophone and other applications.
- Real-time monitoring: simultaneous transmission of real-time control signals, images, data.
- Resistant to harsh environment: Suitable for strong electromagnetic interference, networking in harsh environments at long distances.

## PRODUCT SPECIFICATIONS

### Hardware Specifications

Item	AP-IGS9006PP																								
Product Name	6 Ports Gigabit Managed Industrial PoE Switch																								
Port Definition	4 Gigabit PoE Ports + 2 Gigabit SFP Port + 1 Console port																								
Network Protocols	IEEE802.3 IEEE802.3u IEEE802.3z IEEE802.3ab IEEE802.3x IEEE802.1d IEEE802.1w																								
PoE Parameters	PoE Standard: IEEE 802.3af / IEEE 802.3at Single PoE Port Power Output: Max: 15.4 W (IEEE 802.3af) Max: 30 W (IEEE 802.3at) PoE Compatibility: IEEE 802.3af / at adaptive POE Power Output: DC 48-55V POE Power Pin: 1/2- ; 3/6+																								
Network Media	10BASE-T: Cat 3, 4, 5 UTP (≤100 M) 100BASE-TX: Cat5 or above UTP (≤100 M) 1000BASE-TX: Cat5 or above UTP (≤100 M)																								
Fiber Media	Multi-mode: 850nm, 1310nm Transmission Distance: 550m/2Km Single-mode: 1310nm, 1550nm Transmission Distance: 20/40/60/80/100/120Km																								
LED Indicator	<table border="0"> <tr> <td>PWR</td> <td>Lighting: Powered</td> </tr> <tr> <td></td> <td>Un-Light: No Power</td> </tr> <tr> <td>SYS</td> <td>Lighting: System is operating normally</td> </tr> <tr> <td></td> <td>Un-Light: System is not running</td> </tr> <tr> <td>Yellow light</td> <td>Lighting: PoE Powered</td> </tr> <tr> <td></td> <td>Un-Light: No PoE Powered</td> </tr> <tr> <td>Green light</td> <td>Slow Flashing: 10/100/1000 Link normally</td> </tr> <tr> <td></td> <td>Un-Light: Link disconnect</td> </tr> <tr> <td></td> <td>Flashing: Link data transmission</td> </tr> <tr> <td>G5-G6</td> <td>Lighting: Fiber Connection is Normal</td> </tr> <tr> <td></td> <td>Un-Light: Disconnect</td> </tr> <tr> <td></td> <td>Flashing: Link data transmission</td> </tr> </table>	PWR	Lighting: Powered		Un-Light: No Power	SYS	Lighting: System is operating normally		Un-Light: System is not running	Yellow light	Lighting: PoE Powered		Un-Light: No PoE Powered	Green light	Slow Flashing: 10/100/1000 Link normally		Un-Light: Link disconnect		Flashing: Link data transmission	G5-G6	Lighting: Fiber Connection is Normal		Un-Light: Disconnect		Flashing: Link data transmission
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Power Supply	Input Voltage: DC-4855V Type of input: 4 PIN Industrial Terminal (block V1+V1- V2+ V2-)																								
Physical structure	Protect grade: IP40 Installation: DIN Rail Product weight: 0.6KG Package weight : 0.8 KG (Without power) Product Dimensions (L×W×H): 145mm×108mm×40 mm Package Dimensions (L×W×H): 245mm×190mm×60mm Standard packing(L×W×H): 520mm× 320 mm× 400mm Standard packing quantity: 20 (PCS)																								
Working Environment	Operating temperature: -40 ~ 75°C Storage temperature: -40 ~ 85°C Humidity: 5% ~ 95 % (No condensation)																								
Industry Standard	EMI: FCC Part 15, CISPR (EN55032) class A EMS: EN61000-4-2 (ESD) EN61000-4-4 (EFT) EN61000-4-5 (Surge)																								
Certification	CE, FCC, ROHS																								
MTBF	100,000 hours																								
Packing list	1. Industrial grade switch: 1 Set 2. Instruction manual: 1 PCS 3. Certificate, warranty card: 1 PCS 4. Serial cable: 1PCS																								
Warranty	5 years																								

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Item	AP-IGS9006PP
<b>Hardware Parameters</b>	
Bandwidth	12Gbps
Packet Forwarding Rate	8.928Mpps
RAM	128MB
Flash	16MB
Packet Buffer Memory	4M
Jumbo frame	9.6Kbytes
VLANs	4096
MAC	8K
Forwarding Mode	Store-And-Forward
<b>L3 Function</b>	
IPv4	IPv4 VLAN Interface IPv4 Static Routes ARP
<b>L2 Function</b>	
Port	Port Switch Port Description Port Speed Port Duplex Port Flow Control Jumbo, up to 9600bytes EEE Fiber Module (DDM)
Link Aggregation	Supports load balance policy; Base on SMAC/DMAC/IP and TCP/UDP port number Static and Dynamic Group Supports LACP
Storm Control	Broadcast Unknown Multicast Unknown Unicast
Port Mirroring	One to one monitor Many to one monitor Ingress/Egress/Both
Port Security	MAC Address Constraints Action: Trap/Shutdown Port Isolation, Port Rate-limit, Loopback Detection
VLAN	Access/Trunk/Hybrid VLAN Tunnel (Q-in-Q Tunnel) Configurable VID from 1 - 4094; Max. 4K static VLAN groups GVRP
MAC Address	Dynamic Address Static Address
Spanning Tree Protocol	STP/RSTP/MSTP BPDU Filter BPDU Guard Edge Port
ERPS	Major and sub ring up to 16 rings
Multicast	IGMP Snooping IGMP V1/V2/V3 Router Port Static IGMP group address IGMP groups filtering Querier MLD Snooping
QoS	Traffic classification based, Strict priority and SP+WRR Port Priority 802.1P Priority IP DSCP Priority Supports up to 8 queues per port Port Shaping

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### Hardware Specifications

<i>Item</i>	<i>AP-IGS9006PP</i>
<i>PoE</i>	
<i>PoE Configuration</i>	<ul style="list-style-type: none"> <li>PoE Temperature</li> <li>PoE Type/Level/Power/Current</li> <li>PoE Switch</li> <li>PoE Watchdog</li> <li>Total PoE power budget control</li> <li>PoE power management</li> <li>PoE port priority</li> <li>Per PoE port power limit,</li> <li>PoE Schedule</li> <li>PoE Port Timer Reboot</li> </ul>
<i>Services</i>	
<i>DHCP</i>	<ul style="list-style-type: none"> <li>DHCP Server</li> <li>IP Pool</li> <li>Static Binding</li> <li>DHCP Relay</li> </ul>
<i>Access Protocol</i>	<ul style="list-style-type: none"> <li>HTTP</li> <li>Telnet</li> <li>SSH</li> <li>Manager ACL</li> </ul>
<i>Security</i>	
<i>AAA</i>	<ul style="list-style-type: none"> <li>RADIUS</li> <li>TACACS+</li> <li>802.1X</li> <li>Base on port/MAC authentication</li> <li>DHCP Snooping</li> <li>IP Source Guard</li> <li>Dynamic ARP Inspection</li> <li>Port ACL</li> </ul>
<i>ACL</i>	<ul style="list-style-type: none"> <li>MAC ACL</li> <li>IPv4 ACL</li> <li>IPv6 ACL</li> <li>Permission level management</li> </ul>
<i>Diagnostics</i>	
<i>Syslog</i>	<ul style="list-style-type: none"> <li>Logging Message</li> <li>Remote Server</li> <li>Ping</li> <li>Traceroute</li> <li>Cable Diagnostics</li> </ul>
<i>Management</i>	
<i>Manager Access</i>	<ul style="list-style-type: none"> <li>Console</li> <li>HTTP</li> <li>Telnet</li> <li>SSHv2</li> <li>SNMP</li> </ul>
<i>Manager IP</i>	<ul style="list-style-type: none"> <li>Static Address</li> <li>DHCP Client</li> <li>Supports IPv4 and IPv6 address</li> <li>DNS</li> </ul>
<i>Time Synchronization</i>	<ul style="list-style-type: none"> <li>SNTP</li> <li>Manual Time</li> </ul>
<i>SNMP</i>	<ul style="list-style-type: none"> <li>V1/V2C/V3</li> <li>Community</li> <li>V3 User</li> <li>Group</li> <li>Trap Host</li> </ul>
<i>SNMP MIB</i>	<ul style="list-style-type: none"> <li>RFC 1213 MIB-II</li> <li>RFC 1493 Bridge MIB</li> <li>RFC 1643 Ethernet MIB</li> <li>RFC 2863 Interface MIB</li> <li>Private MIB</li> </ul>

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<b>Item</b>	<b>AP-IGS9006PP</b>
User	Configurable user privilege level from 0 - 15;
Firmware	Double Image; Swap between Active and Alternate firmware image. Firmware update
Configuration	Upload and download Save Restart Factory Defaults
<b>Standards Compliance</b>	IEEE 802.3x flow control and back pressure IEEE 802.3ad port trunk with LACP IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol IEEE 802.1s Multiple Spanning Tree Protocol IEEE 802.1p Class of Service IEEE 802.1Q VLAN tagging IEEE 802.1x Port Authentication Network Control IEEE 802.1ab LLDP IEEE 802.3af Power over Ethernet IEEE 802.3at Power over Ethernet Plus RFC 768 UDP RFC 793 TFTP RFC 791 IP RFC 792 ICMP RFC 2068 HTTP RFC 1112 IGMP v1 RFC 2236 IGMP v2 RFC 3376 IGMP v3 RFC 2710 MLD v1 RFC 3810 MLD v2 ITU-T G.8032 ERPS Ring

## ORDER INFORMATION

<b>Product</b>	<b>Description</b>
AP-IGS9006PP	Layer 2 Management, 4 Gigabit PoE Ports + 2 Gigabit SFP Port + 1 Console port



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