6 Ports Gigabit Managed Industrial PoE Switch

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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), Max 60W (IEEE802.3bt).
- 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-IGS9006-HP		
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), Max 60W (IEEE802.3bt) PoE Compatibility: IEEE 802.3af / at adaptive POE Power Output: DC 48-55V POE Power Pin: ½- ; 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	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
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-IGS9006-HP
Hardware Parameters	
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
L3 Function	
IPv4	IPv4 VLAN Interface
	IPv4 Static Routes
	ARP
L2 Function	
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

AP-IGS9006-HP
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Hardware Specifications

Item	AP-IGS9006-HP
PoE	
PoE Configuration	PoE Temperature PoE Type/Level/Power/Current PoE Switch PoE Watchdog Total PoE power budget control PoE power management PoE port priority Per PoE port power limit, PoE Schedule PoE Port Timer Reboot
Services	
DHCP	DHCP Server IP Pool Static Binding DHCP Relay
Access Protocol	HTTP Telnet SSH Manager ACL
Security	
AAA	RADIUS TACACS+ 802.1X Base on port/MAC authentication DHCP Snooping IP Source Guard Dynamic ARP Inspection Port ACL
ACL	MAC ACL IPv4 ACL IPv6 ACL Permission level management
Diagnostics	
Syslog	Logging Message Remote Server Ping Traceroute Cable Diagnostics
Management	
Manager Access	Console HTTP Telnet SSHv2 SNMP
Manager IP	Static Address DHCP Client Supports IPv4 and IPv6 address DNS
Time Synchronization	SNTP Manual Time
SNMP	V1/V2C/V3 Community V3 User Group Trap Host
SNMP MIB	RFC 1213 MIB-II RFC 1493 Bridge MIB RFC 1643 Ethernet MIB RFC 2863 Interface MIB Private MIB

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Hardware Specifications

Item	AP-IGS9006-HP
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
Standards Compliance	
	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
	FRC 3810 MLD v2
	ITU-T G.8032 ERPS Ring

ORDER INFORMATION

Product	Description
AP-IGS9006-HP	Layer 2 Management, 4 Gigabit PoE Ports + 2 Gigabit SFP Port + 1 Console port

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