

Managed Industrial Gigabit Ethernet Switch - 16 PoE Ports, 8 Uplink Ports & 4 SFP Slots

PRODUCT OVERVIEW

The Managed Industrial Gigabit Ethernet Switch is engineered for demanding industrial applications that require high reliability, performance, and secure connectivity. Designed to operate in harsh environments, it features 16 Gigabit PoE Ethernet ports, 8 Gigabit combo uplink ports, and 4 1000Base-FX SFP slots—offering flexible networking options for complex deployments.

Compliant with IEC61850-3 and IEEE1613 standards, the switch supports wide operating temperatures and is resistant to vibration, electromagnetic interference, and other industrial conditions. Its support for redundancy protocols such as RSTP, MSTP, ERPS, and LACP ensures continuous network uptime and fault tolerance in mission-critical systems.

Appearance	Description
 AP-IGS9024G8C-4SFP	- Standards Compliance: Compliant with IEC61850-3 and IEEE1613 industrial standards - Port Configuration: 16× Gigabit Ethernet ports 8× Gigabit combo Ethernet ports 4× 1000Base-FX SFP slots - Industrial-Grade Design: Built for harsh environments with a wide operating temperature range. - Network Redundancy Protocols: Supports RSTP, MSTP, ERPS, and LACP for reliable failover and redundancy - Quality of Service (QoS): CoS/DSCP for prioritized traffic and increased determinism - Multicast Management: IGMP Snooping v1/v2/v3, supporting up to 512 multicast groups - IP Address Management: DHCP Relay (Option 82) for policy-based IP assignment - Network Management: SNMP v1/v2c/v3 for centralized monitoring and control - Network Protection: Built-in Storm Control to prevent network congestion - Easy Maintenance: USB storage support for configuration-free switch replacement - Industrial Protocol Support: Compatible with EtherNet/IP and Modbus TCP for automation systems

PRODUCT SPECIFICATIONS

Hardware Specifications

Item	AP-IGS9024G8C-4SFP
Standards	IEEE 802.3 10BaseT IEEE 802.3u 100BaseTX IEEE 802.3ab 1000BaseT IEEE 802.3z 1000BaseX IEEE 802.3x Flow Control IEEE 802.3az Energy-Efficient Ethernet IEEE 802.3ad/802.1AX LACP IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid STP IEEE 802.1s Multiple STP ITU-T G.8032 / Y.1344 ERPS IEEE 802.1Q VLAN Tagging IEEE 802.1ad Stacked VLANs IEEE 802.1p Class of Service IEEE 802.1X Network Authentication IEEE 802.1AB LLDP IEEE 1588 PTP
Processing Type	Store and Forward
Switch Fabric	56Gbps
Priority Queues	8 Queues
Jumbo Frame	9216bytes
MAC Table Size	16K
Packet Buffer	12Mbits
VLAN Table Size	4094
IGMP Group	512
ACL Group	512
Network Redundancy	RSTP, MSTP, G.8032 ERPSv2, Port Trunking with LACP
Security	802.1X, RADIUS, TACACS+, SSL, SSH
Management	IPv4, IPv6, Web, Telnet, Serial Console,CLI, SNMP v1/v2c/v3, uPnP
Diagnostics	RMON, SNMP Inform/Trap, Syslog,SMTP, Port Mirroring, LLDP, RSPAN
Configuration	DHCP Server/Client, Relay Option 82,TFTP, USB
Filter	802.1Q VLAN, Q-in-Q, IGMP Snooping v1/v2/v3, IGMP Querier, Independent, Vlan Learning
Time Sync	NTP, IEEE1588v2 OC (Software Timestamp), TC (Hardware Timestamp)
QoS	CoS, DSCP, WRR/SPQ Queuing, Storm Protection
PoE	Powering Status, PoE Monitoring, Scheduling, PD Alive Check
Industrial Profiles	Ethernet/IP, Modbus TCP, Profinet
Interface	
RJ45 Port	16x 10/100/1000T(x), auto negotiation speed duplex mode, auto MDI/MDI-X
Combo Port	8x 10/100/1000T(x) with dual speed SFP combo port, auto media detect
Fiber Port	4x 1000F(x) SFP Slot
LED Indicators	Per unit: PWR1, PWR2(AC2/DC2), Fault, Ring Master, Ring State Ports: Link/Active with Greed LED on the left, Speed on the right with highest speed(Amber), low speed(OFF)
Alarm Contact	1x relay output with current carrying capacity of 1A @ 24 VDC
Digital Inputs	1x isolated input from the electronics. +13 to +30V for state "1" -30 to +3V for state "0" Max. input current: 8mA
Button	Multiple functions reset button
Serial Console	1x RS232 in RJ45 connector with console cable, 115.2Kbps, 8N1
Storage	1x USB 2.0 storage for firmware update, configuration backup, restore, boot up and syslog

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Power Requirements	
Operation Voltage	90~264VAC, 88~370VDC, 18~36VDC, 36~75VDC, redundant dual inputs
Connection	AC socket, DC 4-pin terminal block
Power Consumption	0.46A@110VAC, 0.86@24VDC
Protection	Overload Current Protected, Reverse Polarity Protected
Mechanical Construction	
Enclosure	Aluminum / Steel metal
Protection Class	Ip30
Dimensions	440x44x331 mm (WxHxD)
Weight	4.80 kg
Mounting	Rack Mounting
Environmental Limits	
Operating Temperature	Extended: -40°C ~ 85°C (-40°F ~ 185°F)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Ambient Relative Humidity	5 to 95%, (Non-Condensing)
Regulatory Approvals	
EMI	FCC Part 15 Subpart B Class A CE EN 55032 Class A
EMS	IEC61000-4-2 (ESD) IEC61000-4-3 (RS) IEC61000-4-4 (EFT) IEC61000-4-5 (Surge) IEC61000-4-6 (CS) IEC61000-4-8 (Magnetic Field)
Free Fall	IEC60068-2-32
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Green	RoHS Compliant
MTBF	>100,000 hours