

AP-IGS9012

# DIN-Rail Layer 2 Industrial Ethernet Switches

4 Gigabit SFP + Optical Ports &  
8x 10/100/1000M TX Ports

## KEY FEATURES

- 4 Gigabit SFP+ optical ports, 8 x 10/100/1000M TX ports.
- Support 44-57VDC redundant power input, support relay alarm output.
- High-strength aluminum alloy enclosure structure to resist shock and vibration, robust and durable.
- Industrial Fanless, dustproof, design is stable and reliable, suitable for long-time work.
- Support Auto Sniffer device management software, intelligent industrial network management.



## PRODUCT OVERVIEW

AP-IGS9012 managed DIN-Rail Layer2 industrial Ethernet switch is designed for network communication in smart city, new energy, intelligent transport and industrial automation, etc. It complies with the industry standards such as EN60950, EN50032, and obtains many certifications such as CE etc. It is suitable for the industrial field environment with severe requirements, and provides highly reliable industrial network connection solutions for different industrial application sites. It is suitable for harsh industrial environments and can provide highly reliable industrial network connectivity solutions for different industrial applications.

AP-IGS9012 adopts store-and-forward switching method and can provide 8\*10/100/1000 Base-TX RJ45 ports and 4 Gigabit SFP+ optical port slots.

AP-IGS9012 supports network management functions based on command line CLI, Telnet, SNMP, SSH, Web page, etc. It also supports Layer 2 switching functions such as Virtual LAN (VLAN), Multicast Snooping (IGMP Snooping), Link Aggregation Convergence (LACP), and Quality of Service (QoS).

**HARDWARE SPECIFICATIONS**

Specification	AP-IGS9012
Standards	IEEE 802.3i(10Base-T)
	IEEE 802.3u(100Base-TX)
	IEEE 802.3ab(1000Base-T)
	IEEE 802.3z(1000Base-SX/LX)
	IEEE 802.3ad(Port Aggregation)
	IEEE 802.3x(Flow Control)
	IEEE 802.1p (Priority)
	IEEE 802.1Q(VLAN)
	IEEE 802.1d(STP)
	IEEE 802.1w(RSTP)

**SWITCH PROPERTIES**

Switching Characteristics	Store and forward
Switching Capacity	96Gbps
Packet Forwarding Rate	71.4Mpps
Cache Capacity	12Mbit
MAC Address	16K
Switching Delay	<10µs

**PORT PERFORMANCE**

Electrical port	8 x 10/100/1000Base-TX ports, RJ45, auto flow control, full/half duplex mode, MDI/MDI-X auto-detect
Optical port	4 Gigabit SFP+ Optical Port Slot
Network Management Port	1 Console management port (RS-232), RJ45
LED Indicator	System indicator (SYS), Power indicator (P1, P2), Interface indicator (Link/ACT)

**MAIN CHARACTERISTICS**

VLAN characterization	IEEE802.1Q VLAN
Reliability	Support STP, RSTP, MSTP, MRP
	Supports LACP load balancing
	Supports G.8032 standardized ring protocol (ERPS)
	Supports Loopback detection
Safety	Support port speed limit
	Supports storm control for bps
Multicast	Support IGMP v1/v2/v3 snooping, IGMP Fast leave
QoS	Supports ACL-based flows, VLAN ID, COS, DSCP
	Supports DSCP, COS/802.1p prioritization,
	Supports 8 queues per port
	Supports SP, WRR queue scheduling algorithms
ACL	Supports IP ACLs that match based on fields such as source/destination IP, IP protocol type, IP precedence, TCP/UDP source and destination
	Match based on source/destination IP, IP protocol type, IP priority, TCP/UDP source and destination port number, etc.
	Supports MAC ACL, matching based on source/destination MAC, VLAN ID, COS and other fields.
	Supports IP+MAC combination ACL

## HARDWARE SPECIFICATIONS

Specification	AP-IGS9012
Management Operations and Maintenance	Support for CLI IPv4 HTTP IPv4 FTP/TFTP IPv4 SNTP/NTP SSH support for IPv4 IPv4 syslog support Support for SNMPv1/v2c/v3 Support MIB interface, support Trap Supports Dual IMG LLDP support

## MECHANICAL PROPERTIES

Dimensions	77mm×140mm×187mm(W×D×H)
Weight	1.58kg
Mounting	DIN-rail, optional wall mounted
Other	IP40 rated, pleated high-strength aluminum housing

## ELECTRICAL PERFORMANCE

Input Voltage	48VDC (44-57V) redundant power input, support overload, reverse connection protection
Alarm Port	Support 1 relay alarm output, terminal block
Wattage	Non-POE <23W

## WORKING ENVIRONMENT

Working Temperature	-40°C~75°C
Storage Temperature	-40°C~85°C
Relative humidity	5%~95% (non-condensing)

## STANDARDIZED CERTIFICATION

System Certification	ISO9001, ISO14001
Standard Certification	CE, RoHS, EN
Safety	EN60950
MTBF	Mean Time Between Failure (MTBF) greater than 500,000 hours



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