

AP-IGS9020P

DIN-Rail Layer 2 Industrial Ethernet Switches

4 Gigabit SFP optical ports,
16 x 10/100/1000M TX posts

HIGHLIGHTS

- 4 Gigabit SFP optical ports, 16 x 10/100/1000M TX posts.
- 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-IGS9020P managed DIN-Rail Layer 2 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, FCC, 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-IGS9020P adopts store-and-forward switching method and can provide 16*10/100/1000 Base-TX RJ45 ports, all TX supports maximum 30W (802.3at standard) POE+ power supply, and 4 Gigabit SFP optical port slots.

AP-IGS9020P 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).

PRODUCT SPECIFICATIONS

Hardware Specifications

| Item | AP-IGS9020P |
|---------------------------------------|---|
| Compliances | |
| 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) IEEE 802.3af (POE) IEEE 802.3at (POE+) |
| Switch Properties | |
| Switching Characteristics | Store and forward |
| Switching Capacity | 40Gbps |
| Packet Forwarding Rate | 29.76Mpps |
| Cache Capacity | 12Mbit |
| MAC Address | 16K |
| Switching Delay | <10μs |
| Port Performance | |
| Electrical port | 16x 10/100/1000Base-TX ports, RJ45, auto flow control, full/half duplex mode, MDI/MDI-X auto-detect, All TX supports up to 30W (802.3at standard) POE+ power supply |
| Optical port | 4 Gigabit SFP Optical Port Slot, LC |
| 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 and pps |
| 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 |
| 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 |

PRODUCT SPECIFICATIONS

Hardware Specifications

| | | | |
|----------------------------|---|--|-------------|
| Item | AP-IGS9020P | | |
| 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 POE: Supports up to 30W per TX (802.3at standard) POE+ power supply | | |
| 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, FCC, Telecommunications equipment network access license | | |
| Safety | EN60950 | | |
| EMC | EMI | FCC CFR47 Part 15B Class A, CE EN55032 Class A | |
| | EMS | ESD | EN61000-4-2 |
| | | RS | EN61000-4-3 |
| | | EFT | EN61000-4-4 |
| | | Surge | EN61000-4-5 |
| | | CS | EN61000-4-6 |
| | | PFFM | EN61000-4-8 |
| Vibratory | IEC 60068-2-6 | | |
| Impact | Conforms to IEC 60068-2-27 | | |
| Free fall | Conforms to IEC 60068-2-32 | | |
| MTBF | Mean Time Between Failure (MTBF) greater than 500,000 hours | | |



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