

**128
Gbps**

8 x GE | 4 x 10 GE SFP+ | L3 PoE+

Overview

The AIS4001P is a compact industrial Layer 3 managed switch with an anti-corrosion all-aluminum design. It is designed to operate in harsh working environments and deliver high-performance networking capabilities. Equipped with PoE++ power supply, the device is compatible with a wide range of powered devices, which greatly simplifies cabling and deployment for scenarios such as security surveillance and industrial IoT wireless access, and effectively reduces construction costs.

It supports multiple management methods including Console, SSH, Web and ACC/ACN management platform, enabling flexible and convenient operation. Widely deployed in industrial automation, transportation infrastructure and outdoor sites, it ensures stable and reliable network transmission.



Product Highlights

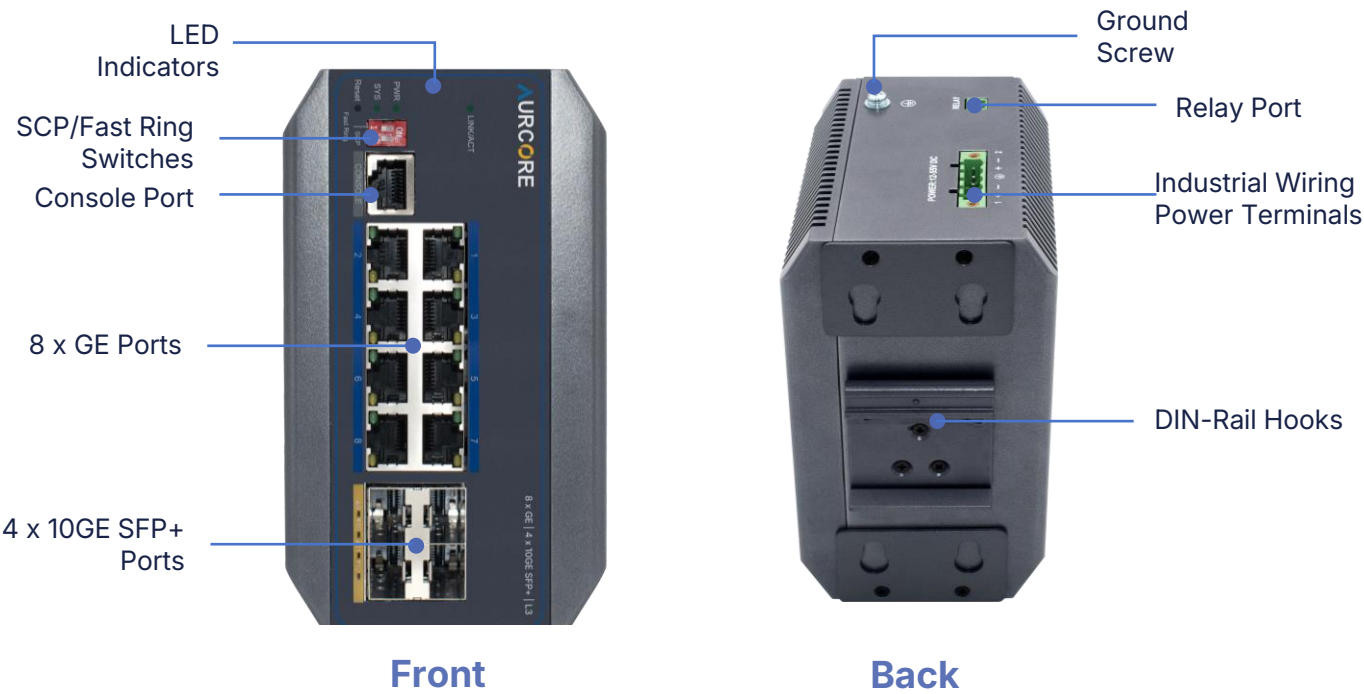
- Optimized for smart manufacturing, transportation, and outdoor IoT/IIoT deployments
- 8 x GE (PoE+ RJ45 ports) and 4 x 10GE SFP+ uplink ports
- Compact Layer 3 managed switch for industrial-grade networking
- Switching capacity: 128 Gbps; forwarding rate: 95.3 Mpps
- Wide operating temperature range: -40°C to 75°C for harsh environments
- ERPS with fault recovery time ≤ 20ms
- Fanless, Anti-corrosion All-aluminum and High-density Cooling Design
- Surge Protection: Differential mode ±2KV, Common mode ±6KV
- Advanced AurC-PoE Technology: PoE Watch dog, PoE Schedule, PoE Port Priority, PoE Power Budget Management, PoE Legacy, PoE High-inrush Status
- Supports Static Routing, QoS, STP, RSTP, MSTP, ERPS, OSPF, BGP, VRRP
- Managed via SSH, SNMP, Web GUI, CLI, AURC-NOS and ACC/ACN unified platform

Hardware Specifications

Model	AIS4001P
Interface	8 x GE 4 x 10 GE SFP+ L3 PoE+
Management Port	1 x Console Port
Mac Address Table	16 K
Packet Forwarding Rate	71.42 Mpps
Switching Capacity	96 Gbps
Flash	64 MB
Memory	1GB
Power Supply	DC 48–57 V
Power Budget	240W
Operating Temperature	-40 °C to 75 °C (-40 °F to 167 °F)
Storage Temperature	-40 °C to 80 °C (-40 °F to 176 °F)
Surge Protection	Differential mode ±2KV, Common mode ±4KV
Electrostatic Standards	Contact ±6KV, Air ±8KV
Dimension(L*W*H)	5.71" × 4.33" × 3.30"
Installation	DIN-rail Mount or Wall Mount
Accessories	Phoenix Terminal*2, Console Cable*1

Note: For industrial-grade switches, the power supply is excluded from the package and requires additional procurement.

Hardware Panel



Software Specifications

HIGH AVAILABILITY

- Support 4K Active VLAN, Voice VLAN
- Support static/LACP link aggregation
- Support BPDU Guard/filtering/transparent
- Support Root Guard and Loopback detection
- Support FTP, TFTP and SFTP
- Support IGMP Snooping

NETWORK CONFIGURATION

- Support Web management
- Support SNMP v1, v2c, v3, SNMP Trap
- Supports RSPAN, multiple configuration files
- Support MIB-II, NTP, Ping and Traceroute
- Support LLDP (802.1ab)
- Support flow-based mirror
- Support Static Routing, RIP, OSPF, BGP, VRRP

QoS FUNCTION

- **Rate Limiting:** Port-based (incoming/outgoing), Stream-based rate limiting
- **Class Of Service:** Based on port, source-destination MAC, source-destination IP, 802.1p, CoS, DSCP, IP priority
- **Prioritization Algorithm:** WRR, SP, WDRR, DSCP & CoS mapping
- **Loop Detection:** ERPS

SECURITY

- **Access Control:** Port Security, Port Isolation, IP source protection, Dynamic ARP protection, DHCP Snooping, DHCP Relay, IEEE802.1x AAA, ACL, User hierarchy, RADIUS/TACACS+, authentication(RFC2138)
- **Data Protection:** Broadcast storm suppression, Illegal packet detection, DDoS Attack Prevention, HTTPs and SSL

RELIABILITY

- **Link Protection:** STP, RSTP, MSTP, BPDU Guard, STP Root Guard, Loop Protection/Detection, Ethernet OAM, ULDP, ERPS fast ring network protection, MRPP fast link switching

MANAGEMENT & MAINTENANCE

- **Interfaces:** Console port, Telnet, SSH
- **Protocols:** SNMPv1/v2c/v3, TFTP (file upload/download)
- **Management Modes:** CLI command line, Web NMS, TELNET
- **Functions:** Firmware Upgrade, Configuration Export/Import, DHCP Client (Option 82/66/67) Event/Error Logs (System Log), Management Access Control, Port Mirror, LLDP (IEEE802.1AB) LLDP-MED, DNS Client, Trace-route, Ping, DDML, NTP/ SNTP (RFC2030), sFlow

