

## Manged Industrial POE Switch AIPS Series

AIPS-O4O2-B / AIPS-O8O2-B / AIPS-10O4-B

### OVERVIEW

Angustos AIPS Series is the industrial switch series with standard DIN-rail shell, supports wide-voltage dual power input. AISP series offer highly reliable industrial Ethernet ring network technology. The hardware-based algorithm can manage the self-healing time of each node in less than 5 milliseconds, total ring network recovery is less than 50 milliseconds (typical value).

The POE model conforms to the IEEE 802.3af/at standard, supports up to 30W full-load power supply, centralized power supply management with POE terminal detection. The reliable industrial design of AIPS series such as electromagnetic compatibility, anti-vibration / anti-shock capability, IP40 protection is suitable and can be widely used in energy, transportation, industrial production, environmental protection, military industries.

### PRODUCT FEATURES

- Lightning protection level: 6KV
- IP40 protection, industrial fanless thermal conduction.
- DIN-rail aluminum alloy shell, compact and convenient.
- Conforms to IEEE802.3af/at standard, up to 30W POE / port
- Intelligent standard 48V POE power supply, self-negotiation
- Supports STP/EAPS/ERPS.
- Supports Self-healing time less than 5 milliseconds
- Support ring network self-healing time less than 50 milliseconds.
- Supports forming a self-healing ring network between any two ports.
- Supports multiple independent self-healing rings.
- Packet loss protection mechanism for quick recovering
- Provides hierarchical bandwidth services through rate limiting
- Traffic shaping in Layer-2 QoS function.
- Supports simple network management protocol (SNMP) and cloud-based operating platform (COP).
- The MTBF is over 800,000 hours.



### VLAN

- 4K Active VLAN,
- QinQ & Selective QinQ.
- GVRP, Private VLAN,
- Voice VLAN

### IPv6

- ICMPv6, DHCPv6, ACLv6,
- IPv6 Neighbor Discovery
- Path MTU Discovery
- MLD v1/v2
- MLD Snooping

### Multicast

- IGMP v1/2/3
- IGMP Snooping
- IGMP Fast Leave
- Multicast group policy
- Multicast number limit

### DHCP

- DHCP Relay
- DHCP Client
- DHCP Snooping

### ACL

- L2/L3/L4 ACL
- IPv4, IPv6 ACL
- VLAN ACL

### MAC Switching

- Static configuration & dynamic learning
- Check and clear MAC address
- Configuring of MAC address aging time
- Limit on MAC address learning number
- MAC address filtering function
- IEEE 802.1AE MacSec

### Security

- Identification & filtering of L2/L3/L4 ACL
- Defend against DOS or TCP attacks
- Suppression of broadcast, multicast packet
- Port isolation
- Port security, IP+MAC+port binding
- DHCP sooping, DHCP option82
- IEEE 802.1x authentication
- Radius and BDTacacs+ authentication
- Command line hierarchical protection

### QoS

- Traffic classification of L2/L3/L4 protocol
- CAR traffic control
- 802.1P/DSCP priority remark
- Multiple queuing algorithms SP, WRR or both
- Tail-Drop, WRED
- Traffic supervision and traffic shaping

### Ring protection

- 802.1D (STP),
- 802.1W (RSTP)
- 802.1S (MSTP)
- BPDU protection, root / ring protection
- EAPS , ERPS

### Management

- Console, Telnet, SSH v1/2, HTTP, HTTPS
- SNMP v1/v2/v3
- TFTP upload / download
- WEB GUI Management
- ZTP(Zero Touch Provisioning)
- Remote Network Monitoring (RMON)

### Environment

- Operating temperature/humidity:  
-40°C-75°C, 0%-90% non-condensing
- Storage temperature/humidity :  
-40°C-75°C, 0%-90% non-condensing

### Reliability

- Static/LACP
- UDLD
- Ethernet OAM
- ISSU

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### SPECIFICATION

	AIPS-O4O2-B	AIPS-O8O2-B	AIPS-10O4-B
Interface	4 x Gigabit TX POE	8 x Gigabit TX POE	8 x Gigabit TX POE
	2 x Gigabit SFP	2 x Gigabit SFP	2 x Gigabit TX Port 4 x Gigabit SFP
Total POE Power	120W	240W	240W
Power Input	Dual DC 48-55V / AC 220-250V 50/60Hz adapter		
Operational	Temperature	-40~75°C	
	Humidity	0%-90% non-condensing	
Switching Capacity	256 Gbps		
Forwarding Rate	96 Mpps		
Jumbo Frame	9.6KB		
IEEE802.3ac	Max frame size extended to 1522Bytes (allow Q-tag in packet)		
MAC Address Table	8K		
Memory Buffer	512K Bytes for packet buffer		
Standard	IEEE 802.3 / IEEE 802.3u / IEEE 802.3ab / IEEE 802.3z / IEEE 802.3cb / IEEE 802.3af / IEEE 802.3at IEEE 802.ac / IEEE 802.3ad / IEEE 802.3x / IEEE 802.3az / IEEE 802.1 ab / ITU-T G.8032/Y.1344 IEEE 802.1d / IEEE 802.1w / IEEE 802.1s / IEEE 802.1Q / IEEE 802.1X / IEEE 802.1ad / IEEE 802.1p		
Indicator	Leds for Power, Fiber Uplink, Ethernet link and POE		
Lighting Protection	6KV		
Console Port	RJ-45		
Network Cable	UTP/STP Cat. 5e cable or above		
Protocols	CSMA/CD		
Overload Protection	Supported		
Certification	CE, FCC, UL60950-1		
RMON	RMON I (1, 2, 3, 9 group), RMON II		
IPv6 QoS	Supported		
<b>Optical Module</b>	<i>*Other module available upon request</i>		
AS-SFP-CO	GE SFP single to RJ45 module		
AS-SFP-SX-D	GE SFP MM (500m,850nm,LC,DDM)		
AS-SFP-LX-10-D	GE SFP SM (10Km,850nm,LC,DDM)		
AS-SFP-LX-20-D	GE SFP SM (20Km,850nm,LC,DDM)		
AS-SFP-LX-40-D	GE SFP SM (40Km,850nm,LC,DDM)		
AS-SFP-LX-SM-90-80-BD	GE SFP SM (80Km,TX1490/RX1550,LC,DDM)		
AS-SFP-LX-SM-50-80-BD	GE SFP SM (80Km,TX1550/RX1490,LC,DDM)		