ALPHA BRIDGE-AS200/10/P+
Industrial Switch

Verified Service characteristics, Versatile IPv6 solution, Complete Security Mechanism.

IP40 protection 4KV lightning protection

Advanced Hardware Architecture and Industry-leading Port Density.

Wide range working temperature

Product Overview

The AS200/10/P+ are highly reliable managed industrial PoE switches with 8-port 10/100/1000-T PoE and 2-port 1000Base-X fiber optical interfaces. They comply with IEEE802.3af, and IEEE802.3at standard PoE protocol with autosensing on POE ports and the maximum power consumption can reach 30W (PoE+) per port which enables equipment with different loads to connect on each port and to sense whether equipment supports POE or not. They support an ERPS redundant network. The self-recovery mechanism is less than 20ms on full load which allows you to scheme a reliable Ethernet network by building a redundant ring topology as your backup solution. AS200/10/P+ support Web/SNMP/Telnet management, the managed features are such as QoS, VLAN, IGMP, Port mirroring, 802.1X, LLDP, Fiber transceiver DDM, PoE management, IPV6 management and so on

AS200/10/P+ are also highly cost-effective easy-to-use devices, which provide essential industrial Ethernet networking functions, including wide range power input 44-57VDC, redundant power design with polarity reverse protection, robust IP40 fan-less housing with Din-rail installation, wide operation temperature from -40°C to 75°C as well as high-level EMI/EMC capability. It is the best choice for heavy industrial factories, transportation, oil & gas, chemical, IP Surveillance, and processing automation areas where environmental conditions are harsh and Crucial.

Features

- 8*10/100/1000Base-T RJ45 PoE ports, 2*1000Base-X SFP ports
- DC 44~57V input, redundant power supply with polarity reverse/over-voltage protection
- Complies with IEEE802.3af PoE and IEEE802.3at PoE+ standard with Auto Sensing
- Support Layer 2 management function:
  VLAN/Port Mirroring/IGMP/QoS/LLDP/802.1X/ Fiber transceiver DDM /PoE management/IPV6 management/Web/SNMP/Telnet/TFTP/Web upgrading
- Support G.8032 ERPS protocol, recovery time ≤20ms
- Support 4KV surge protection and ESD: Air-15kV, Contact-8kV Protection
- IP40 fan-less and Din-rail hardware design
- Operation temperature: -40 ℃ ~+75℃

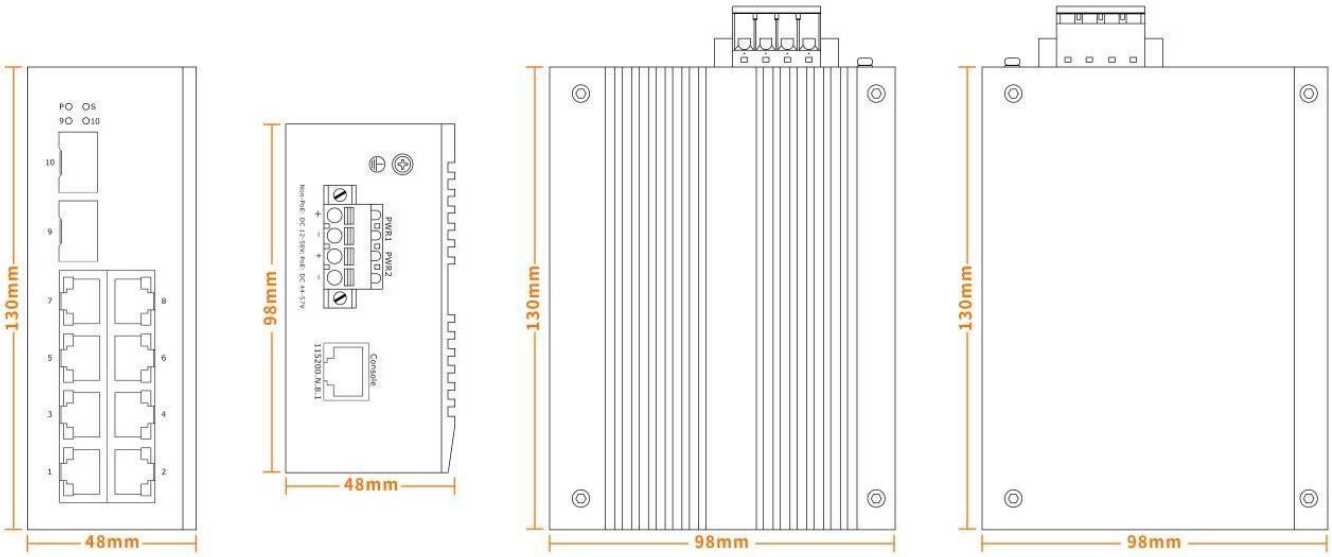
Product Specifications

Model No.	AS200/10/P+	
Interface	Fiber ports: 2	Copper RJ45 ports: 8
Chipset	Marvell	
Ethernet	2*1000/2500Base-X SFP （SC/FC/ST optional） 8*10/100/1000Base-T RJ45 PoE	
Management Port	1*RJ45 Console	
Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Ethernet IEEE 802.3ab 1000Base-T Ethernet IEEE 802.3z 1000Base-X Ethernet IEEE 802.3x Flow Control and Back Pressure IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol IEEE 802.1Q VLAN Tagging ITU-T G.8032 ERPS IEEE 802.1X Port Authentication Network Control IEEE 802.1ab LLDP IEEE 802.3ad LACP IEEE802.3af PoE IEEE802.3at PoE+	
LED Indicators		
P(Power indicator)	Off: the device is power off or Failed	On: the device power on is normal
S(System Status Indicator)	Blinking: device initialization	On: device on normal operation
	Green indicators	Yellow indicators
	Off: ports link down	Off: PoE not working

1-8 (Copper Ports)	Normal on: ports link up	On: PoE working
	Blinking: data on TX/RX	
9-10 （Fiber Ports） Green	Off: ports link down	
	Normal on: ports link up	
	Blinking: data on TX/RX	
Power Parameter		
Input Voltage	44-57VDC, redundant power input	
Input Current	5.7A Max	
Total Consumption	Full loading without PoE ≤10W PoE power budget ≤240W	
Connector	Removable 4-pin terminal block	
Reverse Polarity Protection	Support	
Over-Voltage Protection	Support	
Layer 2 function		
Port Aggregation	Support static aggregation Support dynamic aggregation	
Port Features	Support IEEE802.3x flow control, Support Port traffic statistics Support port isolation Support network storm suppression based on port bandwidth percentage	
VLAN	Support access mode Support trunk mode Support hybrid mode	
Port Mirroring	Support many-to-one port mirroring	
Ring Network Protocol	Support STP, RSTP Support G.8032 ERPS protocol, single ring, sub Ring, and associated subring Recovery time ≤20ms	
Multicast	IGMP V1,V2,V3 IGMP snooping	
QoS	Ingress Port-based Rate-limit Egress Port-based Rate-limit	
Security Features	Support 802.1x， port authentication, MAC authentication， RADIUS service Support port isolation	
Management and Maintenance	Support LLDP Support user management and login authentication Support SNMPV1/V2C/V3 Support web management, HTTP1.1, HTTPS Support Syslog and alarm grading Support RMON (Remote Monitoring) alarm Support NTP Support Ping, Tracert Support optical transceiver DDM function Support TFTP Client Support Telnet Server	

	Support SSH Server Support IPv6 Management Support PoE management Support TFTP, web upgrading
Switching Features	
Switching Capacity	26 Gbps
Packet Forwarding Rate	38.6Mpps
MAC Address Table	16K
VLAN	4K
Buffer	2M bit
Forwarding Delay	<5us
Jumbo Frame	Support 10Kbytes
MDX/MIDX	Support
Watchdog	Support
Mechanical Structure	
Case Protection	IP40
Installation Method	Din-rail
Dimension(W*D*H) mm	48*98*130mm
Weight	0.65 kg
Operating Environment	
Operating Temperature	-40℃~+75℃
Storage/Transportation Temperature)	-40℃~+85℃
Relative Humidity	Operation humidity: 10%-90%RH Storage humidity: 5%-95%RH
Industrial Standard Supported	Surge protection of power: IEC 61000-4-5 Level 3 (4KV/2KV) (8/20us)
	Surge protection of Ethernet ports: IEC 61000-4-5 Level 3 (4KV/2KV) (10/700us)
	DIP: IEC 61000-4-11 Level 3 (10V)
	ESD: IEC 61000-4-2 Level 4 (8K/15K)
	Shock: IEC 60068-2-27
	Free fall: IEC 60068-2-32
	Vibration: IEC 60068-2-6

Structure diagram



Ordering Information

Model	Description
AS200/10/P+	Managed industrial 10/100/1000M 2SFP and 8RJ45, IEEE802.3af, IEEE802.3at standard, DC44-57V input, redundant dual power supply, Din-rail installation. Fiber port transmission distance depending on the SFP module; Operation temperature: -40℃～+75℃

Note: The SFP optical module and power supply are not included by default and must be purchased.