

ALPHA BRIDGE AS200/10/I4S8P Managed Industrial PoE Switch



Wide-range working
temperature 800,000
hours MTBF



Advanced Hardware
Architecture and Industry-
leading Port Density.



IP40 protection 6KV
lightning protection



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

Product Overview

Alpha Bridge AS200 Series are highly reliable managed industrial PoE switch with 8-port 10/100/1000-T PoE and 4-port 1000/2500Base-X fiber optical interfaces. They comply with IEEE802.3af, IEEE802.3at standard PoE protocol, the Max power consumption can reach 30W (PoE+) per port. They support ERPS redundant network and 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 back-up solution. Alpha Bridge AS200 Series also support DI/DO/RS485/Modbus data and robust layer 2 management function, which can fulfill the special needs of industrial automation applications.

Alpha Bridge AS200 Series are also high cost-effective easy-to-use devices, which provide essential industrial Ethernet networking function, 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 85°C as well as high-level EMI/EMC capability. They are the best choice for heavy industrial factory, transportation, oil & gas, chemical, IP Surveillance and processing automation area where environmental conditions are harsh and critical.

Features

- 8*10/100/1000Base-T RJ45 PoE ports, 4*1000/2500Base-X SFP slots
- Redundant power DC 44-57V input with polarity reverse/over-voltage/over-current protection
- Complies with IEEE802.3af PoE and IEEE802.3at PoE+ standard
- Support USB one key configuration and upgrading
- Support DI/DO/RS485/Modbus data
- Support Layer 2 management function: VLAN/VLAN Classification/QinQ/STP, RSTP, MSTP/Port Mirroring/ DHCP /Multicast/ACL/IGMP/QoS/LLDP/802.1X/Dying Gasp/SFP
- DDM/PoE management/IPV6 management/Web/SNMP/Telnet/TFTP/Web upgrading
- Support G.8032 ERPS protocol, recovery time ≤20ms
- Support 6KV surge protection and ESD: Air-15kV, Contact-8kV Protection
- IP40 fan-less and Din-rail hardware design
- Operation temperature: -40 °C ~+85°C

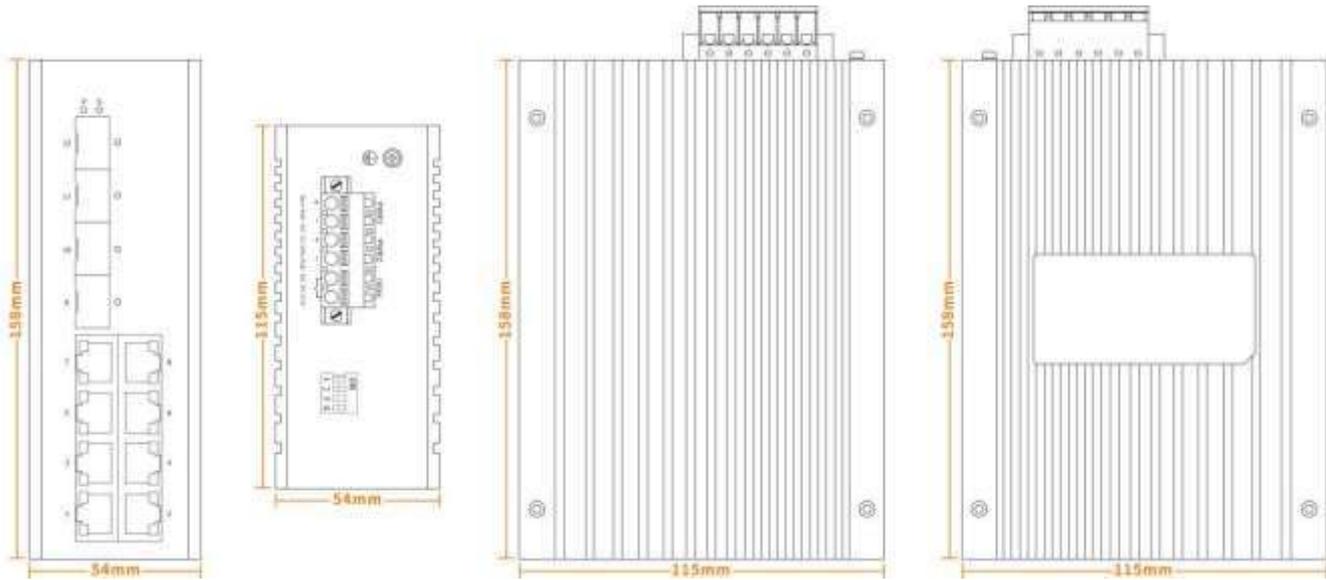
Technical specification

Model No.		AS200/10/I4S8P / AS200/10/I4S8P-D	
Interface	Fiber ports	Copper RJ45 ports	
	4	8	
Ethernet	8*10/100/1000Base-T RJ45 PoE 4*1000/2500Base-X SFP		
Management port	1*RJ45 Console port, 1*USB 2.0 (optional)		
Data channel (optional)	1 channel RS485 1 channel DI(digital input) 1 channel DO(digital output)		
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 IEEE802.3x Flow Control and Back Pressure IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol IEEE 802.1Q VLAN 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	
USB (USB status indicator)	Off: USB flash drive not insert or not detected by device		
	On: USB flash drive is detected by device		
	Blinking: the device is reading and writing the data from USB flash drive		
ALM (Fault status indicator) Red	Off: Device on normal working state	On: Fault alarm	
1-8 (Copper ports indicators) Green	Off: ports link down		
	On: ports link up		
	Blinking: data on TX/RX		
	Off: PoE not working		

1-8 (PoE status indicators) Yellow	On: PoE working
9-12 (Fiber ports indicators) Green	Off: ports link down
	On: ports link up
	Blinking: data on TX/RX
Power parameter	
Input voltage	44-57VDC, redundant power input
Input current	5.6A Max
Total power consumption	Full loading without PoE ≤10W PoE power budget ≤240W
Connector	Removable 4-pin terminal block
Reverse polarity protection	Support
Over-voltage protection	Support
Over-current protection	Support
Layer 2 function	
Port aggregation	Support GE port aggregation Support 2.5GE 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
VLAN Classification	Mac Based VLAN IP Based VLAN Protocol Based VLAN
QinQ	Port-based QinQ VLAN- based QinQ Flow-based QinQ
Port mirroring	Many to one port mirroring
Ring network protocol	Support STP, RSTP, MSTP Support G.8032 ERPS protocol, single ring, sub Ring and associated sub ring Recovery time ≤20ms
DHCP	Support DHCP Client Support DHCP Snooping
Multicast	IGMP V1,V2,V3 IGMP snooping
ACL	IP Standard ACL MAC extend ACL IP extend ACL
QoS	Support QoS Class, Remarking Support SP, WRR queue scheduling Ingress Port-based Rate-limit Egress Port-based Rate-limit Support Policy-based QoS
Security	Support Dot1x, port authentication, MAC authentication, RADIUS service Support port- security Support IP Source Guard, IP/Port/MAC binding Support ARP-check and ARP packet filtering for

	illegal users Support port isolation
Management & 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 temperature monitoring 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 Support USB upgrading Support USB importing configuration
Switching features	
Switching capacity	26Gbps
Packet forwarding rate	38.6Mpps
MAC address table	16K
VLAN	4K
Buffer	12Mbit
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	54*115*158mm
Weight	AS200/10/I4S8P (1.10 kg)/ AS200/10/I4S8P-D (1.30 kg)
Operating environment	
Operating temperature	-40°C~+85°C
Storage/transportation temperature	-40°C~+85°C
Relative humidity	Operation humidity: 10%-90%RH Storage humidity: 5%-95%RH
Industrial Standard	
EMS	Surge protection of power: IEC 61000-4-5 6KV/4KV (8/20us) Surge protection of Ethernet ports: IEC 61000-4-5 6KV/2KV (10/700us) RS: IEC 61000-4-3 80 MHz-1 GHz: 10 V/m EFT: IEC 61000-4-4 4K/2K CS: IEC 61000-4-6 10V ESD: IEC 61000-4-2 Contact: 8K; Air: 15K
EMI	FCC Part 15B Class A
Shock	IEC 60068-2-27
Free fall	IEC 60068-2-32
Vibration	IEC 60068-2-6
Certification	CCC/CE/FCC/RoHS

Structure diagram



Ordering information

Part Number	Product Description
AS200/10/14S8P	Managed industrial PoE switch with 8*10/100/1000Base-T RJ45 PoE ports and 4*1G/2.5GBase-X SFP slots, complies with IEEE802.3af, IEEE802.3at standard, DC44-57V input, redundant dual power supply, Din-rail installation. Operation temperature: -40°C~+85°C
AS200/10/14S8P-D	Managed industrial PoE switch with 8*10/100/1000Base-T RJ45 PoE ports and 4*1G/2.5GBase-X SFP slots, supports DI/DO/RS485/Modbus data, complies with IEEE802.3af, IEEE802.3at standard, DC44-57V input, redundant dual power supply, Din-rail installation; Operation temperature: -40°C~+85°C

otherwise change the information contained in the document from time to time.
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