ALPHA BRIDGE AS200/10/I2S4P Managed Industrial PoE Switch

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

IP40 protection 6KV lightning protection

Advanced Hardware Architecture and Industry-leading Port Density.

Wide-range working temperature 800,000 hours MTBF

Product Overview

The AS200/10/I2S4P is a highly reliable industrial managed PoE Switch with 4-port 10/100/1000-T PoE and 2-port 1000Base-X fiber optical interfaces. It complies with IEEE802.3af, IEEE802.3at standard PoE protocol, the Max power consumption can reach 30W (PoE+) per port. With its high-performance switching capacity, it supports 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. AS200/10/I2S4P supports Web/SNMP/Telnet management, the anaged features are such as QoS, VLAN, IGMP, Port mirroring, 802.1X, LLDP, Fiber transceiver DDM, PoE management and so on.

AS200/10/I2S4P is also a high cost-effective easy-to-use device, which provides 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 75°C as well as high-level EMI/EMC capability. It is the best choice for heavy industrial factory, transportation, oil & gas, chemical, IP Surveillance and processing automation area where environmental conditions are harsh and crucial

Features

- 4*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
- Support Layer 2 management function: VLAN/Port Mirroring/IGMP/QoS/LLDP/802.1X/Fiber transceiver DDM
- 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℃

Technical specification

Model No.	**AS200/10/I2S4P**	
Interface	Fiber ports	Copper RJ45 ports
	2	4
Ethernet	4*10/100/1000Base-T RJ45 PoE 2*100/1000Base-X SFP （SC/ST/FC optional）	
Management port	1*RJ45 Console	
Standard	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3ab 1000Base-T IEEE 802.3z 1000Base-X 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 Power Over Ethernet IEEE802.3at Power Over Ethernet plus PSE	
LED Indicators		
P(Power indicator)	Off: the device is power off or failed	Off: the device is power off or failed
S(System status indicator)	Blinking: device initialization	On: device on normal operation
1-4 (Copper ports)	Green	Yellow
	Off:ports link down	Off: PoE not working
	On: ports link up	On: PoE working
	Blinking: data on TX/RX	
5-6 （fiber ports) 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	3A Max	
Total consumption	Full loading without PoE ≤6W PoE power budget ≤120W	

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 sub ring 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	12Gbps
Packet forwarding rate	17.8Mpps
MAC address table	8K
VLAN	4K
Buffer	1M 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	30*98*130mm
Weight	0.56 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	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

Ordering Information

Model	Description
AS200/10/I2S4P	Managed industrial 10/100/1000M 4POE and 2SFP, IEEE802.3af, IEEE802.3at standard, DC44-57V, redundant dual power supply, Din-rail installation. Fiber ports transmission distance depending on the SFP module; Operation temperature: -40℃～+75℃