ALPHA BRIDGE-AS200/10/P+/I
Industrial 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

Product Overview

The AS200/10/P+/I is a Gigabit L2+ managed industrial PoE fiber switch independently developed by Alpha Bridge. It has 8* 10/ 100/ 1000Base-T adaptive RJ45 and 2* 100/ 1000Base-X SFP fiber ports.

Port 1-8 supports IEEE 802.3 af/at PoE standard, and the single-port PoE power for both Active & Passive PoE. As a PoE power supply device, it can automatically detect and identify powered devices that meet standards and power them through network cables. Powering POE terminal equipment such as high-power wireless AP, network dome cameras, high-power PoE lighting, industrial sensors, and high-power network industrial control equipment through network cables to meet the network environment that requires high-density and high-power PoE power supply. It is suitable for intelligent transportation, Industrial sites such as rail transit, electric power, mining, metallurgy, and green energy construction have established economical, efficient, stable, and reliable communication networks.

Product Specifications

Model	AS200/10/P+ /I
Product Name	Industrial-grade L2+ management PoE switch
Port	8*10/100/1000Mbps RJ45+2*100/1000Mbps SFP
PoE Port	Ports 1~8 support 24V Passive PoE/48V PoE (MAX 30W)
Managing Ports	One console port
Reset Key	One
Functional Interface	1 Group alarm input interface 1 Group alarm output interface 1 Temperature sensor input interface 1 One-key ring button
Power Input	Redundancy supports 2 sets of independent power inputs Non-POE: DC 12-57V MAX 2A POE: DC 37-57V MAX 250W
Characteristic Function (PRO only)	1. One-click ring network, easy to set up a ring network 2. 1 Set of wide voltage alarm input, input range DC12-57V 3. 1 Set of alarm output relay output, which can be defined to trigger various custom situations 4. 1 Set of ambient temperature and humidity detection, which can monitor the environmental situation in real time 5. Real-time monitoring of key voltages in the system, and with alarm output function 6. Real-time system temperature, ambient temperature, ambient humidity alarm output function 7. Real-time input voltage, current, power detection and display 8. A variety of custom port control, intelligent management 9. Environmental Detection (Ambient Temperature and Humidity Detection Input)
Network Protocols	IEEE 802.3x IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z IEEE 802.3ad IEEE 802.3q, IEEE 802.3q/p IEEE 802.1w, IEEE 802.1d, IEEE 802.1S IEEE 802.3z 1000BASE-X STP (Spanning Tree Protocol) RSTP/MSTP (Rapid Spanning Tree Protocol) EPPS ring network protocol EAPS ring network protocol 802.3af/at AUTO 24V/48V PSE
Network Port Characteristics	1-8 x 10/100/1000BaseT Automatic detection, full/half duplex MDI/MDI-X adaptive
Forwarding Mode	Store and forward (full line speed)
Bandwidth	20Gbps (No blocking)
Packet Forwarding	14.88Mpps
MAC Address Table	8K

Cache	4.1 Mbit SRAM Packet Buffer
Jumbo Frames	10000Bytes
Twisted Pair Transmission	10BASE-T： Cat3,4,5 UTP(≤250 meter) 100BASE-TX： Cat5 or later UTP(≤100 meter) 1000BASE-TX： Cat6 or later UTP(≤100 meter) SFP: Support 100M/1G/10G single-mode multi-mode optical module, the maximum distance ≤120km (depending on the optical module).
FLASH	16M
RAM	128M
LED Indicator	9-10： Optical port link LED 1-8 Port RJ45 left: POE LED (green=48V; orange = 24V (1-2 ports only) RJ45 Right: Link LED (green) PWR: Power indicator/SYS System indicator P1: Mains power indicator P2: Secondary power indicator HW: Ring network on the prompt light
Power Consumption	No-load power consumption≤3W
Usage Environment	Operation Temperature: - 40℃ ~ 75℃ Storage Temperature: - 40℃ ~ 80℃ Working Humidity: 10% ~ 90%, RH Non coagulation Storage Humidity: 5% ~ 90%, RH Non coagulation
Lightning Protection Level	Port lightning protection： 6KV 8/20us；8KV ESD Electrostatic protection Class of protection： IP40
Size (L*W*H)	Product size:161mm*131mm*50mm Packaging size:280mm*166mm*79mm
N.W/G.W (kg)	1.1kg/1.28kg
Installation	DIN rail type (separate wall mounting ear)

Product Features

Model	AS200/10/P+ /I
Monitoring Platform	Quick formation of ring network System temperature monitoring and alarm External temperature and humidity monitoring and alarm Input power monitoring and alarm System each channel key voltage monitoring and alarm System total current, total power monitoring and alarm All-Port network monitoring and alarm Support one group input and output signal monitoring and alarm
	IEEE 802.3x

Network Protocol	IEEE 802.3、IEEE 802.3u、IEEE 802.3ab、IEEE 802.3z
	IEEE 802.3ad
	IEEE 802.3q、IEEE 802.3q/p
	IEEE 802.1w、IEEE 802.1d、IEEE 802.1S、IEEE 802.1X
MAC	Support 8K MAC address, auto aging and learning
VLAN Configuration	Support port-based VLAN
	Up to 4096 VLANs
	Support Voice VLAN, can configure QoS for voice data
	802.1Q
Spanning Tree	STP (Spanning tree protocol)
	RSTP/MSTP (Rapid spanning tree protocol)
	EPPS/EAPS (Ring network protocol)
	802.1x
Port Aggregation	Support 8 groups of aggregation, each group support up to 8 ports;
Port Mirroring	Support many-to-one port mirroring
Loop Guard	Support loop protection, real-time detection, quick alarm, concise location, Intelligent blocking, automatic recovery
Port Isolation	Support downlink ports isolate from each other and communicate with uplink port as well
Flow Control	Half duplex based on Back pressure;
	Full duplex based on PAUSE frame
Speed Limitation	Bandwidth management based on port input and output
Multicast Control	IGMPv1/2/3 and MLDv1/2 Snooping
	GMRP protocol registration
	Multicast address management, multicast VLAN, multicast routing port, static multicast address
DHCP	DHCP Snooping
Storm Suppression	Support unknown unicast, multicast, unknown multicast, broadcast type storm suppression
	Storm suppression based on bandwidth adjustment and storm filtering
Security	Support User port+IP address+ MAC address
	ACL based on IP, MAC
	Support security properties of number of MAC address based on port
QoS	802.1p port queue priority algorithm
	Cos/Tos, QOS remark
	WRR (Weighted Round Robin), weighted priority rotation algorithm
	WRR、SP、WFQ priority scheduling modes
Cable Sequence	Auto-MDIX; auto detection on straight-through and cross-over cable
Negotiation Mode	Port support auto negotiation function (self-negotiation transmission rate and duplex mode)
System Maintenance	Upgrade package upload
	System log viewing

	WEB recovery factory configuration
PoE Function **(only for PoE models)**	Port switch
	Schedule arrangement, timing switch
	Voltage, current, power display
	System total power display and configuration
	PoEdog: support auto reset, timing reset and ip binding reset when device failed
	Port power configuration (AF.AT)
	Indication of over power
	Port PoE type configuration (48V/24V power supplying)
Network Management	WEB interface management
	CLI management based on Telnet、TFTIP、Console
	SNMP V1/V2/V3 management
	RMONV1/V2 management
	RMON management

Ordering Information

Model	Description
AS200/10/P+/I	L2 + managed industrial PoE switch with 8* 10/ 100/ 1000M RJ45 ports and 2* 100/ 1000M uplink SFP ports. Port 1-8 support IEEE 802.3 af/at PoE standard. It can support dual DC power input and DIN rail mounting.

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