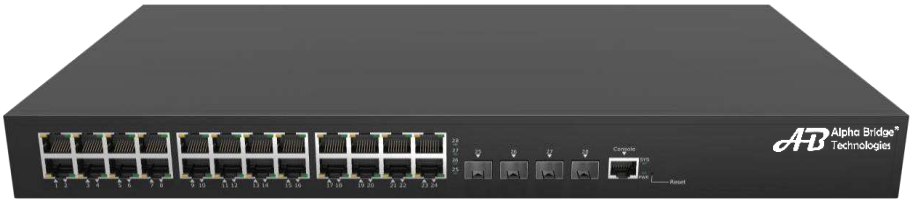
ALPHA BRIDGE
LAYER3-Lite Switch
(AS200/28/XP V3)



Supports Max. 24 GE TX Ports and 4 10G SFP+ Uplink Ports.

Advanced Hardware Architecture and Industry-leading Port Density.

Carrier-Grade, High Reliability, Layer-3 Routing Functions.

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

Product Overview

AS200/28/XP V3 is the Layer 3 Managed PoE Switch that provides high-density performance, Layer 3 static and dynamic routing, RIP (Routing Information Protocol) and OSPF (Open Shortest Path First). With 128 Gbps switching capacity and 4*1G/2.5G/10Gbps flexible and high performance uplink capability.

The AS200/28/XP V3 provides comprehensive end to end QoS as well as flexible and rich management, security settings, which can meet the high speed, secure and smart requirement for small and medium-size enterprise networks based on cost effective price. With total power consumption up to 440W (850W optional), they offer a rack-mountable, affordable, safe and reliable power solution for SMBs deploying Power over Ethernet networks, or requiring enhanced data security and network traffic management.

Features

- 4*1G/2.5G/10G SFP+ slots, 24*10/100/1000M RJ45 PoE ports
- Complies with IEEE 802.3at, IEEE802.3af standard. Max output power consumption per port can reach 30W (PoE+)
- Smart and standard PoE chipset to detect the PD equipment's automatically, never burn the PD equipment's
- Layer 3 routing features: Supports static and dynamic routing, RIP, OSPF, BGP4, ECMP, VRRP
- Port aggregation: Supports GE ports, 2.5GE and 10GE port aggregation, static and dynamic aggregation
- VLAN: Supports access, truck, hybrid mode and VLAN classification, including the Mac based VLAN, IP based VLAN and protocol based VLAN
- QinQ: Supports port-based, VLAN-based and flow-based QinQ
- Port Mirroring: Many to one port mirroring
- Layer 2 ring network protocol: Supports STP, RSTP, MSTP, G.8032 ERPS protocol, single ring, sub ring
- Multicast: Supports IGMP snooping
- QoS: QoS class, remarking, Supports SP, WRR queue scheduling, Ingress/Engress port-based rate-limit and policy-based QoS
- Security: Support Dot1x, port authentication, mac authentication, RADIUS service; Support port-security, ip
- source guard, IP/Port/MAC binding, arp-check and ARP packet filtering for illegal users and port isolation
- Management: Supports LLDP, user management and login authentication; SNMPV1/V2C/V3; web management, HTTP1.1, HTTPS; Syslog and alarm grading; RMON (Remote Monitoring) alarm, event and history record; NTP, temperature monitoring; Ping, Tracert and optical transceiver DDM function; Supports TFTP Client, Telnet Server, SSH Server and IPv6 management; PoE management
- Firmware update, configure backup/restore through Web GUI, FTP and TFTP

Technical Specification

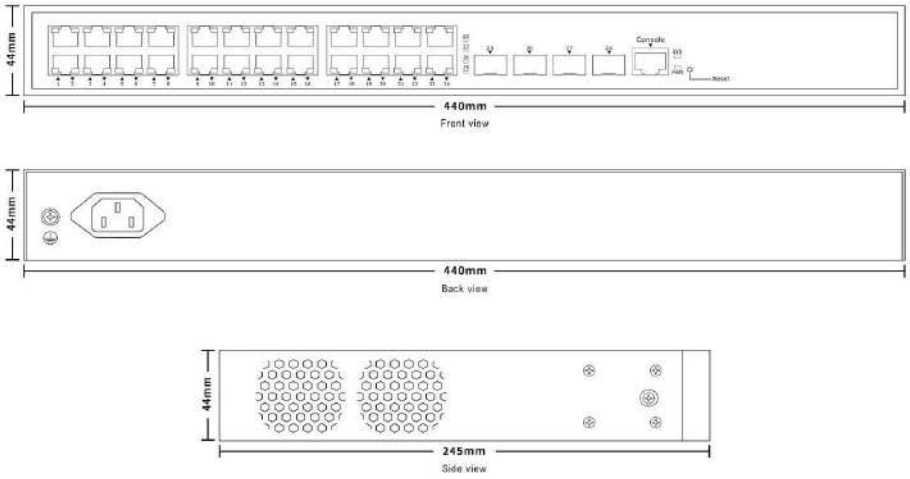
Model No.	AS200/28/XP V3	
	Fiber ports	Copper RJ45 ports
Interface	4	24
Ethernet	24*10/100/1000Base-T RJ45 PoE	
	4*1G/2.5G/10GBase-X SFP+	
Management port	1*RJ45 Console port (115200, 8, N, 1)	
	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Ethernet IEEE 802.3ab 1000Base-T Ethernet IEEE 802.3z 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	
	ITU-T G.8032 ERPS	
	IEEE 802.1X Port Authentication Network Control IEEE 802.1ab LLDP	
	IEEE 802.3ad LACP IEEE 802.3af	
	IEEE 802.3at	
LED Indicators		
PWR (Power indicator)	Off: the device is power off or failed	On: the device power on is normal
SYS (System status indicator)	Blinking: device initialization	On: device on normal operation
	Off: ports link down	
	On: ports link up	
1-24 (Copper ports indicators) Green	Blinking: data on TX/RX	
	Off: PoE not working	
1-24 (PoE status indicators) Yellow	On: PoE working	
25-28 (Fiber ports indicators) Green	**Off: ports link down**	

	On: ports link up
	Blinking: data on TX/RX
Power Parameter	
Input voltage	AC 100-240V
Total power consumption	Full loading without PoE ≤25W Total power consumption with PoE ≤440W (PoE power budget≤ 400W) Total power consumption 850W optional (PoE power budget≤ 740W)
Over-current protection	Support
Layer 2 Functions	
Port aggregation	Support GE port aggregation Support 2.5GE aggregation Support 10GE aggregation Support static aggregation Support LACP dynamic aggregation Up to 64 aggregation groups and up to 8 ports per group
Port features	Support IEEE802.3x flow control Support interface counters Support port isolation Port mirroring (One-to-One, Many-to-One) Support loop detection (Port-based; VLAN-based) Support broadcast storm suppression (broadcast; unknown multicast; unknown unicast)
Mac-address table management	Support static Mac-address management Support dynamic Mac-address Management Support filtering Mac-address Support MAC limit based on port and VLAN Support MAC flapping based on port and VLAN
VLAN	Support access mode Support trunk mode Support hybrid mode
VLAN classification	Mac Based VLAN IP Based VLAN Protocol Based VLAN
GVRP	Normal mode Fixed mode Forbidden mode
QinQ	Port-based QinQ VLAN-based QinQ (VLAN-stacking; VLAN-mapping) Flow-based QinQ
LLDP	LLDP (Link Layer Discovery Protocol)
Ring network protocol	Support IEEE802.1D-STP Support IEEE802.1W-RSTP Support IEEE802.1S-MSTP
	Support G.8032 ERPS protocol, single ring, sub Ring and major ring Recovery time ≤20ms
L2 Multicast	
IGMP snooping	Support IGMP snooping
Group address	Support group address
Security Functions	
ACL	IP Standard ACL MAC extend ACL IP extend ACL IPv6 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
802.1x	Port access control Mac-address access control RADIUS server
Port-security	Port-security
IP source guard	IP Port/MAC binding
ARP-check	Support ARP-check and ARP packet filtering for illegal users
Access control	Support Telnet/SSH/HTTP/HTTPS user access control
Management & Maintenance Functions	
User Management	Support password protection Support user authorization management

SNMP	Supporting SNMP V1/V2C/V3 version
Web Management	Web Management Support HTTP V1.1 Support HTTPS
CLI management	Console/Telnet command line management
RMON	Support RMON (Remote Monitoring) alarm
Firmware upgrade	Firmware upgrade
Fault Detection	Ping/Tracerout Support optical transceiver DDM function
Cable detection	Support copper port cable detection
PoE management	Support 802.3af/802.3at
	Support PD watchdog
	Support PoE priority management
	Support Max PoE power configuration for each port
	Support alarm waterline configuration
	Support reserved power configuration
NTP	Network Time Protocol
Syslog/Debug	Syslog/Debug Syslog send to three servers
Configuration import/export	Support FTP/TFTP remote import/export
Dual partition management	Support dual partition switching
Application Protocol Functions	
DHCP Snooping	DHCP snooping trust port Support remote-id/circuit-id configuration DHCP option-82
DHCP client	Support DHCP client
Telnet server	Support telnet server
Telnet client	Support telnet client
SSH server	Support SSH server
TACACS	Support TACACS(the terminal access controller accesses the control system)
sflow	Support network traffic analysis
TFTP	Support TFTP Client
Layer 3 Functions	
ARP	ARP table aging
DHCP server	
IPv4 / IPv6	static routing
ECMP	Support ECMP (Equal-cost multi-path routing)
	Support the configuration of ECMP Max next-hop
	Support capacity balanced configuration
Route policy	IPv4 prefix-list
VRRP	Virtual Router Redundancy Protocol
Routing Protocol Specification	
RIP	RIPv1/v2
OSPFv2	OSPFv2
BGP4	BGP4
	BGP Support Routing Recursive ECMP
	Support to view the number of neighbors and up/down state
IS-IS	IS-ISv4
Routing entry	13K
Switching Features	
Switching capacity	128Gbps
Packet forwarding rate	190.4Mpps
MAC address table	16K
VLAN	4K
Buffer	12Mbit
Forwarding delay	<5us
Jumbo Frame	Support 10Kbytes
MDX/MIDX	Support

Watchdog	Support
Mechanical structure	
Installation method	Desktop; Rack-mount
Dimension(W*D*H)mm	440*245*44mm
Weight	4.2kg (440W power supply); 4.8kg (850W power supply)
Operating Environment	
Operating temperature	0℃~+50℃
Storage/transportation temperature	-10℃~+70℃
Relative humidity	Operation humidity: 10%-90%RH Storage humidity: 5%-95%RH
MTBF	>100,000 hours

Structure diagram



Model

AS200/28/XP V3

24*10/100/1000M RJ45 PoE
4*1G/2.5G/10G SFP+

Ordering Information

Model	Description
AS200/28/XP V3	Layer 3 managed PoE switch with 4*1G/2.5G/10G SFP+ slots and 24*10/100/1000M RJ45 PoE ports, AC 100-240V 50/60Hz, total power consumption 440W (850W optional)