

ALPHA BRIDGE LAYER 2 Switches (AS200/28/P)



Supports Max. 24 GE
TX PoE Ports and 4 GE
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

Alpha Bridge AS200/28/P is a new-generation intelligent gigabit access switch designed for carrier's IP MAN and enterprise networks. Based on the new-generation high performance hardware and our OS platform, it supports functions such as ACL, Q-in-Q and QoS. Its simple management mode and flexible installation can meet the requirement of any complicated scenarios.

Product Characteristics

Carrier-Level Ethernet Access Switch

Alpha Bridge AS200/28/P supports the carrier-level Ethernet ring protection protocol with less than 50ms recovery time, STP/RSTP/MSTP, backup uplink ports, and LACP link aggregation to cater to the requirements of high reliability of carriers.

Alpha Bridge AS200/28/P has powerful ACL functions to access and control L2-L7 data based on physical port, providing carriers flexible and various policy control methods.

Alpha Bridge AS200/28/P supports In-Service Software Upgrade (ISSU) to ensure the unremitting data forwarding during system upgrade.

Alpha Bridge AS200/28/P supports various L2 multicast functions such as IGMP-snooping, fast-leave and MVR to fully meet the operation requirements of carrier's IPTV.

Product Characteristics

Enhanced QoS

Alpha Bridge AS200/28/P supports priority retagging and complicated flow classification based on VLAN, MAC, source address, destination address, IP or priority, better streamlining carrier's services.

Alpha Bridge AS200/28/P provides flexible bandwidth control policies, supporting port-/flow-based flow limit, ensuring the line speed forwarding of each port.

Alpha Bridge AS200/28/P supports multiple queue schedule algorithms such as SP, WRR and "SP + WRR".

Security+

Equipment-level security: The advanced hardware infrastructure design realizes the level-based packet schedule and packet protection, prevents DoS-/TCP- related SYN Flood, UDP Flood, Broadcast Storm or large traffic attacks, and supports level-based command line protection, endowing different levels of users with different management permissions.

Perfect security authentication mechanisms: IEEE 802.1x, Radius and Tacacs+.

Alpha Bridge AS200/28/P supports storm/multicast/unicast limit, ensuring the normal running of equipment in harsh network conditions.

Alpha Bridge AS200/28/P supports perfect ring detection mechanism, ensuring the long-term stable running of network.

Alpha Bridge AS200/28/P supports port isolation within the same VLAN, DHCP-Snooping, and IP + MAC + Port binding.

Easy Management and Maintenance

Alpha Bridge AS200/28/P supports many management modes such as the CLI, Telnet, SSH, SSL and SNMP.

Alpha Bridge AS200/28/P supports the WEB management mode, which is easy and efficient for installing and debugging the device.

Alpha Bridge AS200/28/P supports FTP, TFTP and SFTP.

Alpha Bridge AS200/28/P supports ISSU (In-Service Software Upgrade).

Alpha Bridge AS200/28/P supports SNMP. The combination realizes automatic equipment discovery, Network Topology Management, equipment configuration management, performance data statistics and analysis and trouble management.

Intelligent PoE+

AS200/28/P support IEEE 802.3af/at PoE standard, and power mapping scales up to a maximum of 370W of PoE+ power.

AS200/28/P support PoE non-stop power supply. The PoE+ power is maintained during a switch reload.

AS200/28/P support manual and dynamic PoE power allocation.

AS200/28/P support up to 2KV thunder-proof of the PoE port and power supply.

Model



AS200/28/P

24 GE POE
4 GE/TX SFP COMBO

Product Specifications

Item	AS200/28/P
Interface (Ports)	24 GE PoE 4 GE TX/SFP combo
Backplane (Gbps)	56
Forwarding rate (Mpps with 64 bytes)	42
Chassis Dimensions (WxDxH) (mm)	440x210x44
Chassis Weight (KG) (empty)	3
Package Dimensions (WxDxH) (mm)	555x295x88
Package Dimensions Weight (KG)	4.1
Power consumption (No-load)	<17W
Power consumption (Full-load)	393.5W
Power supply AC: 100-240V / DC: 36-72V	400W
POE power budget	370W
Total output BTU (1000 BTU/H = 293W)	1365.19
Fan number	2
Noise@25°C(dBA)	37.5
MTBF(H)	> 50,000
Forwarding mode	Store-forward
Console (RJ45)	1 RJ45 port, 1 RST button

Product Features

VLAN	QoS	Reliability
4K Active VLAN, QinQ & Selective QinQ, GVRP, Private VLAN, Voice VLAN,	CAR, HQoS, MAC/IP/TCP/UDP/VLAN/ COS/DSCP/TOS based QoS, 802.1P/DSCP priority re- labeling, SP, WRR, and “SP+WRR”, Tail-Drop, WRED, flow monitoring and traffic shaping	Static/LACP link aggregation, Interface backup EAPS and ERPS ISSU
Spanning Tree	Security	Accessories
802.1D (STP), 802.1W(RSTP)and 802.1S(MSTP) BPDU guard, root guard and loopback guard	Port isolation, Port security, and “IP+MAC+port” binding, MAC sticky DHCP Snooping and option 82, DAI& IP source guard, PPPoE+, IEEE 802.1x, Radius and BDTacacs+ L2/L3/L4 ACL flow identification and filtration Anti-attack from	Power cord, rackmount kits, console cable
IP	DDoS, TCP’s SYN Flood, UDP Flood, etc.	Certification
Static route RIP, OSPF 512 routing table IPv4/v6 dual stack DHCP Server/Client/Relay	Broadcast/multicast/unknown unicast storm-control Md5, SHA-256, RSA-1024, AES256, etc.	CE, ROHS
		Multicast
		IGMP v1/2/3 IGMP Snooping IGMP Fast Leave IGMP Filter MVR
	Environment	Management
	Operating temperature/humidity: -10°C-50°C,10%-90% non-condensing Storage temperature/humidity: -20°C-70°C, 5%-90% non-condensing	Console, Telnet, SSH 1/2, HTTP, HTTPS SNMP v1/v2/v3, RMON TFTP, FTP, SFTP, NTP SPAN, RSPAN

Ordering Information

Item	Description
AS200/28/P	Ethernet PoE switch with 28 GE ports (1 console port, 24 GE PoE ports, 4 GE TX/SFP combo ports, 1 standard AC220V power supply, 400W, the cooling fan, 1U, standard 19-inch rack-mounted installation)

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