

ALPHA BRIDGE LAYER 2 Switches (AS200/20/P)



Supports Max. 16 GE PoE Ports, 2 GE TX/SFP Combo Ports and 2 100/1000M SFP 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 AS200/20/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 AS200/20/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 AS200/20/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 AS200/20/P supports In-Service Software Upgrade (ISSU) to ensure the unremitting data forwarding during system upgrade.

Alpha Bridge AS200/20/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 AS200/20/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 AS200/20/P provides flexible bandwidth control policies, supporting port-/flow-based flow limit, ensuring the line speed forwarding of each port.

Alpha Bridge AS200/20/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 AS200/20/P supports storm/multicast/unicast limit, ensuring the normal running of equipment in harsh network conditions.

Alpha Bridge AS200/20/P supports perfect ring detection mechanism, ensuring the long-term stable running of network.

Alpha Bridge AS200/20/P supports port isolation within the same VLAN, DHCP-Snooping, and IP + MAC + Port binding.

Easy Management and Maintenance

Alpha Bridge AS200/20/P supports many management modes such as the CLI, Telnet, SSH, SSL and SNMP.

Alpha Bridge AS200/20/P supports the WEB management mode, which is easy and efficient for installing and debugging the device.

Alpha Bridge AS200/20/P supports FTP, TFTP and SFTP.

Alpha Bridge AS200/20/P supports ISSU (In-Service Software Upgrade).

Alpha Bridge AS200/20/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+

AS200/20/P support IEEE 802.3af/at PoE standard, and power mapping scales up to a maximum of 370W of PoE+ power.

AS200/20/P support PoE non-stop power supply. The PoE+ power is maintained during a switch reload.

AS200/20/P support manual and dynamic PoE power allocation.

AS200/20/P support up to 2KV thunder-proof of the PoE port and power supply.

Model



AS200/20/P

16 GE PoE ports,
2 GE TX/SFP combo ports
2 100/1000M SFP ports

Product Specifications

Item	AS200/20/P
Interface (Ports)	16 GE PoE ports, 2 GE TX/SFP combo ports 2 100/1000M SFP ports
Backplane (Gbps)	40 Gbps
Forwarding rate (Mpps with 64 bytes)	30 Mpps
Chassis Dimensions (WxDxH) (mm)	440x210x44
Chassis Weight (KG) (empty)	2.8
Package Dimensions (WxDxH) (mm)	555x295x88
Package Dimensions Weight (KG)	3.9
Power consumption (No-load)	<15W
Power consumption (Full-load)	261.4W
Power supply AC: 100-240V / DC: 36-72V	265W
POE power budget	250W
Total output BTU (1000 BTU/H = 293W)	892.15
Fan number	2
Noise@25°C(dBA)	37.5
MTBF(H)	> 50,000
Forwarding mode	Store-forward
Flash (MB)	16
DRAM (MB)	128
MAC	8K
Buffer size (MB)	4.1
Jumbo frame	9K
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 Tacacs+ 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
AS200/20/P	Ethernet PoE switch with 20GE ports (1 console port, 16 GE PoE ports, 2 100/1000M SFP ports, 2GE TX/SFP combo ports, 1 standard AC220V power supply, 265W, the cooling fan, 1U, standard 19-inch rack-mounted installation)

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