

L3 Stackable Routing Switch with 100GE fiber uplink ports

PRODUCT OVERVIEW

AirPro AP-S6200 is a L3 stackable routing switch with 100GE fiber uplink ports. It has advanced hardware and software architecture design, built-in modular 1+1 AC redundant power supplies, 3+1 redundant fans, cross ventilation and wind direction adjustable. It is ideal for high-density aggregation in Enterprise networks or Campus networks. It also provides data center features, such as VxLAN, EVPN, M-LAG, Netconf, Telemetry, etc. So it is also ideal for the application scenarios of the new generation of 10G access and 100G aggregation data centers.

MAIN FEATURES

S6200-24X6C-HI



- 24 x 1G SFP/10G SFP+ and 6 x 10G SFP+/100G QSFP28
- 1+1 power supplies (AC), 3+1 fans
- 1 console, 1 USB, 1 RJ45 management ports
- Forwarding performance: 600Mpps
- Switching capacity: 1.68Tbps

S6200-48X6C-HI



- 48 x 1G SFP/10G SFP+ and 6 x 10G SFP+/100G QSFP28
- 1+1 power supplies (AC), 3+1 fans
- 1 console, 1 USB, 1 RJ45 management ports
- Forwarding performance: 600Mpps
- Switching capacity: 2.16Tbps

KEY FEATURES AND HIGHLIGHTS

High Performance and scalability

With high switching capacity, the switches support wire-speed L2/L3 forwarding and high routing performance for Ipv4 and IPv6 protocols.

The 1G/10G Ethernet connectivity is accomplished via a hot-pluggable 1G SFP/10G SFP+ transceiver which supports distance up to 300 meters over multi-mode fiber and 10 to 120km over single-mode fiber (The distance depends on the optical module chosen).

High Reliability

The series of switches support modular 1+1 redundant power supplies and 3+1 redundant fans. Business won't be interrupted in case of replacing power supplies and fans. The system supports dual images. Even though the primary image was destroyed, the system will still boot via the backup image normally.

VSF (Virtual Switch Framework)

As a new generation data center switch, the switches support VSF which not only guarantees flexibility, but also enhances the scalability of the data center network.

Rich L3 Features

The series of switches delivers high-performance, hardware-based IP routing. RIP, OSPF and BGP provide dynamic routing by exchanging routing information with other Layer 3 switches and routers. With the series of switches, customers could easily achieve Policy based Route (PBR), which is important when they need multi-exit applications.

MPLS/VPLS

The series of switches supports MPLS L3 VPN/MPLS L2 VPN (VPLS) and helps customers to construct more secure/extendable networks. The switches could be deployed as P & PE devices, guaranteeing the variety of services.

Abundant IPv6 Support

The series of switches supports IPv6 switching and routing based on hardware for maximum performance. With increased network devices growing and the need for larger addressing and higher security becoming critical, the switches will be a right product to meet the requirement. The series of switches passed IPv6 Phase II certification, which is the best proof of the application.

Strong Multicast

The series of switches supports abundant multicast features such as IGMPv1/v2/v3 snooping and fast leave and IGMPv1/v2/v3, PIM-DM, PIM-SM, PIM-SSM and even MSDP. With Multicast VLAN Register (MVR), multicast receiver/sender control and illegal multicast source detection functions, the switches provide a great application experience for customers.

PRODUCT SPECIFICATIONS

Hardware Specifications

Item	S6200-24X6C-HI	S6200-48X6C-HI
Physical port	24*1GbE(SFP)/10GbE(SFP+)+ 6*100GbE(QSFP28)	48*1GbE(SFP)/10GbE(SFP+)+ 6*100GbE(QSFP28)
Management port	Console port Rj45	
	100/1000Mbps RJ45 Ethernet Management port	
	USB Management port	
Performance		
Switching Capacity	1.68Tbps	2.16Tbps
Forwarding Rate	600Mpps	600Mpps
MAC Address	32K	
ARP Table	8K	
Routing Table	30K	
Physical		
Dimension(W*H*D)	442.5mm x 473mm x 43.95mm	442.5mm x 473mm x 43.95mm
Relative Humidity	5%~95% non-condensing	
Temperature	Working 0°C~50°C, storage -40°C~70°C	
Power Input	AC: 100~240V,50~60 Hz +/- 5%	
Power Supply	1+1 Modular Hot-swap Redundant AC	
Main Features		
L1, L2 Features	10k Jumbo Frame	
	Port Loopback Detect	
	LLDP and LLDP-MED	
	UDLD, MEF (E-LINE, E-LAN, E-TREE, E-ACCESS)	
	802.3ad LACP, 127 groups	
	LACP Load Balance	
	N:1 Port Mirroring	
	RSPAN	
	ERSPAN	
	IEEE802.1d(STP)	
	IEEE802.1w(RSTP)	
	IEEE802.1s(MSTP)	
	Root Guard	
BPDU Guard		
BPDU Tunnel		
ERPS Sub-50ms (ITU-T G.8032), R-APS, Sub-50ms Fast Ring		
802.1Q, 4096 VLAN		
MAC VLAN, VOICE VLAN, Private VLAN, Protocol VLAN, Multicast VLAN		
QinQ, Flexible QinQ		
GVRP		
N:1 VLAN Translation		
Broadcast / Multicast / Unicast Storm Control		
IGMP v1/v2/v3 Snooping and L2 Query		
ND Snooping		
MLDv1/v2 Snooping		
Port Security		
Flow control: HOL, IEEE802.3x		
Bandwidth Control / Non-Blocking Throughput		
L3 Features	Static Routing, RIPv1/v2, OSPFv2, BGP4	
	OSPFv3, BGP4+	
	OSPF Multiple Process	
	LPM Routing	
	Policy-based Routing (PBR) for IPv4 and Ipv6	
	VRRP, VRF Lite	
	URPF,	
	ECMP	
	BFD	
	IGMP v1/v2/v3, IGMP Proxy,	
	DVMRP, PIM-DM, PIM-SM, PIM-SSM, any cast RP, MSDP	
	Static Multicast Route	
	Multicast Receive Control	
Illegal Multicast Source Detection		
ARP Guard, Local ARP Proxy, Proxy ARP, ARP Binding, Gratuitous ARP, ARP Limit		
Anti ARP Cheat, Anti ARP Scan		
DNS Client		
GRE Tunnel		
IPv6	6to4 Tunnel, Configured Tunnel, ISATAP Tunnel, GRE Tunnel	
	ICMPv6, ND, DNSv6	
	IPv6 LPM Routing, IPv6 Policy-Based Routing (PBR)	
	IPv6 VRRPv3, IPv6 URPF, IPv6 RA	
	RIPng, OSPFv3, BGP4+	
	MLD Snooping, IPv6 multicast VLAN	
MLDv1/v2, PIM-SM/DM for IPv6, IPv6 Anycast RP, IPv6 ACL, IPv6 QOS		

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Hardware Specifications

Item	S6200-24X6C-HI	S6200-48X6C-HI
MPLS	MPLS, VRF, RSVP-TE, LDP/T-LDP, Static MPLS MPLS L3 VPN, MPLS L2 VPN(VPLS), VPWS	
QoS	8 Queues SP/WDRR/SP+WDRR, Traffic Classification Based on 802.1p CoS, ToS, DiffServ DSCP, ACL, port number Traffic Shaping PRI Mark/Remark	
ACL	IP ACL, MAC ACL, IP-MAC ACL Standard and Expanded ACL Based on source/destination IP or MAC, IP protocol, TCP/UDP port, DSCP, ToS, IP Precedence), VLAN, Tag/Untag, CoS REDIRECT and accounting-based ACL Rules can be configured to port, VLAN Time ranged ACL	
Security	802.1x AAA Port, MAC based authentication Accounting based on time length and traffic Guest VLAN and Auto VLAN RADIUS for IPv4 and Ipv6 TACACS+ for IPv4 and Ipv6 MAB	
DHCPv4/v6	DHCP Server/Client for IPv4/IPv6 DHCP Relay/Option 82 DHCP Snooping/Option 82	
Traffic Monitor	sFlow Traffic Analysis, MEF46 Latching Loopback controller and responder, TWAMP w/auto-testing	
Security Network Management	CLI, WEB, Telnet, SNMPv1/v2c/v3 through IPv4 and IPv6 Syslog and external Syslog server HTTP SSL, Centralized management by AirPro Cloud SNMP MIB, SNMP TRAP FTP/TFTP SNTP/NTP RMOM 1,2,3,9 Authentication by radius SSH v1/v2 Dual firmware images/ Configuration files 802.3ah OAM, 802.1ag OAM	
Data Center Features	- VXLAN* - MLAG* - VSF (Virtual Switch Framework)* - IEEE 802.1Q bridging, IEEE 802.1ad Q-in-Q (TLS), IS-IS, MPLS L2VPN and L3 VPN - Full VPLS PE, MTU HVPLS, VPWS* - Synchronous Ethernet (SyncE)* - Sub-50ms RS VP-TE FRR, secondary LSP* - ITU-T G.8032, xSTP, resilient link, dual homing VPLS/HVPLS LAG (Static/IEEE 802.3ad LACP/Multi-chassis)* - Segment Routing* - Hardware-based TEEE 802.1ag CFM, TEEE 802.3ah EFM* - ITU-T Y.1564 and RFC2544 test head and service performance analyzer* - In-service testing capabilities, ITU-TY.1731 SLM/DMM per port/EVC/VLAN/COS, hardware-based flexible MAC-based loopbacks* - SNMP v1/2/3, XFTP, NTP, DNS resolver* - L2: xSTP, G.8032, LACP, MC-LAG, L2-Tunneling* - ACLS, SFTP, port security, broadcast storm prevention, secure access*	
Standards	CE Mark, CISPR 22 Class A, EN55024:1998+A1, EN 55022 Class A EMC: EN50081-1, EN55022 Class A, EN60555-2/3; FCC 47 CFR Part 15 Class A, ICES-003 Issue 4 Class A, VCCI Class A; CISPR 22 Class A, EN50082-1, EN/IEC 61000-4-2/3/4/6/11 (for S6200-24X6C-HI) EMC: EN 61000-3-2, EN 61000-3-3, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN61000-4-6, FCC 47 CFR Part 15 Class A, ICES-003 Issue 4 Class A (Canada), EN 300386, Telcordia GR-1089 issue 4 (for S6200-48X6C-HI) Full RoHS, NEBS3 compliant UL 60950, EN 60950, IEC 60950, IEC 60825-1, CSA 22.2 No.950, Class 1 Laser product safety (eye safety)	

Note * is available in the enhanced image version.

ORDER INFORMATION

Product	Description
S6200-24X6C-HI	100G Advance Enhanced Datacenter Switch (24*1G(SFP)/10GbE(SFP+)+6*100GbE(QSFP28)) , Redundant and modular Design, High performance. Full L3 features, Default with two hot-swap AC power supply, Default with 4(3+1) fans. (With Enhanced Image version)
S6200-48X6C-HI	100G Advance Enhanced Datacenter Switch (48*1G(SFP)/10GbE(SFP+)+6*100GbE(QSFP28)) , Redundant and modular Design, High performance. Full L3 features, Default with two hot-swap AC power supply, Default with 4(3+1) fans. (With Enhanced Image version)



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