Air Pro ®

Simple | Secure | Trusted

L2+10G Intelligent Access Switch
8 x 10/100/1000Base-T + 4 x 1/10GE(SFP+)

PRODUCT OVERVIEW

AirPro AP-SGS4500 series is L2 10G uplink intelligent switch designed for carrier and MAN networks. It supports comprehensive QoS, enhanced VLAN functions (Dynamic VLAN, Voice VLAN, Q-in-Q, N:1 VLAN Translation etc.), Ethernet Ring Protection Protocol (G.8032), classified bandwidth control, intelligent security control, OAMOperations, Administration and Maintenance), manageability functions and Triple-Play services which fulfill the network requirements demanded by carrier network, MAN access. SG4500 Series switch offers green features like Fan-less design feature, which can dramatically lower power consumption, achieve green energy and save the cost for the carrier and MAN users.

SG4500 series is equipped with the full GE ports and 4 SFP+ uplink ports, it integrates advanced management and security functions to provide performance and scalability.

FEATURES

- 8 x 10/100/1000Base-T + 4 x 10GE(SFP+).
- 1 Console, 1 USB port.
- PoE+, up to 125w
- AC power supply.
- Switching capacity: 96Gbps.
- Forwarding rate: 71.4Mbps.

KEY FEATURES AND HIGHLIGHTS

10G Uplink Access Switch:-
Equipped with the full GE ports and 4 SFP+ uplink ports, AP-SG4500 Series provides a solid foundation and more than enough bandwidth for your business applications today and in the future.

L3 Forwarding:-
AP-SG4500 Series supports L3 forwarding allowing you to segment your network into workgroups and communicate across VLANs without degrading application performance.

VSF (Virtual Switch Framework):-
Virtual Switch Framework can virtualize multiple AIRPRO switches into one logical device, achieving the sharing of information and data tables between different switches. The performance and ports density of the virtualized device is greatly enlarged by times under VSF. VSF also simplifies management work for the network administrator and provides more reliability.

High Reliability:-
AP-SG4500 Series supports 4 10G uplink ports, which could be designed to offer redundant uplinks with various ring protection applications, effectively raised the expansibility and performance of the network.

G.8032 provides sub-50ms protection and recovery switching for Ethernet traffic in a carrier ring topology. AP-SG4500 Series supports G.8032 v2 and can be deployed in a variety of complex network topologies including single ring, tangent ring, intersecting rings, double rings, and other home networking.

Enhanced Security:-
IEEE 802.1X port-based access control ensures all users are authorized before being granted access to the network. User authentication is carried out using any standard-based RADIUS server.
Access Control Lists (ACLs) can be used to restrict access to sensitive network resources by denying packets and forward by different policies. User-defined ACL provides more flexible access control for users.

AP-SG4500 Series supports DHCP snooping, which prevents DHCP attacks and illegal DHCP SERVER by setting trust ports and untrustports. With DHCP Snooping binding and option82 enabled, it can combine modules like dot1x and ARP, or implement user-access-control independently.

AP-SG4500 Series supports abundant L2 security features such as ARP guard, Anti-ARP scanning, and other ARP and MAC Security technology to protect network security and reliability.

Abundant Multicast Features:-
AP-SG4500 Series also supports MVR (Multicast VLAN Register), selectively allows traffic to cross between different VLANs for bandwidth and security reasons. With the MVR Trunk function, which could associate multicast VLAN to trunk port, AP-SG4500 Series combines the VLAN data into the same link, saving lots of resources for users.

AP-SG4500 Series could prevent multicast traffic from flooding via IGMP Snooping, while multicast traffic is only forwarded to ports associated with multicast devices.

PRODUCT SPECIFICATIONS

Hardware Specifications

Item	AP-SG4500-12GT-P-4XFP
Ports	8 x 10/100/1000Base-T + 4 x 1/10GE(SFP+) Auto-MIDX
Management port	1x Console port
	1x USB2.0 interface
Performance	
Switching Capacity	96Gbps
Forwarding Rate	71.4Mpps
MAC ADDRESS	16K
Jumbo Frame	10K bytes
Packet Buffer	12MBits
ACL Table	512
Queues per port	8
VLAN TABLE	4K
Physical	
Dimension(W×H×D)	330mm x 44mm x 219mm
Power Input	100~240VAC, 50~60Hz
Power Consumption	< 170W
Cooling	Passive
Temperature	Working 0°C~50°C, Storage -40°C~70°C
Relative Humidity	5%~95%, non-condensing
EMC Safety	CE, RoHS
PoE	EEE 802.3af POE (15.4W) IEEE 802.3at POE+ (30W) PoE output 125w
Main Features	
Forwarding	Storage and Forwarding
VLAN	Port-based VLAN, IEEE802.1Q, private VLAN, Protocol VLAN, Voice VLAN,
	MAC VLAN
	Normal QinQ, Flexible QinQ
	VLAN Translation, N:1 VLAN Translation
L3 Features	Static Routing, PBR
DHCP	IPv4/IPv6 DHCP Client, IPv4/IPv6 DHCP Relay
	Option 82, Option 37/38
	IPv4/IPv6 DHCP Snooping, IPv4/IPv6 DHCP Server
Reliability:	
Spanning Tree	802.1D STP, 802.1W RSTP, 802.1S MSTP
	Root Guard, BPDU Guard, BPDU Forwarding, TCN filtering
LACP	64 groups / 8 ports
L2 Ring Protection	MRPP
	ERPS (G.8032)
	Loopback Detection
	Fast Link
Security	IP ACL, MAC ACL, MAC-IP ACL, User-Defined ACL
	Time Range ACL
	ACL rules can be configured to port, VLAN
	Storm Control based on packets
	Port Security, MAC Limit based on VLAN and Port
	Anti-ARP-Spoofing, Anti-ARP-Scan, ARP Binding
	ND Snooping
	DAI
	IEEE 802.1x
	Authentication, Authorization,
	Accounting Radius, TACACS+

PRODUCT SPECIFICATIONS
Hardware Specifications

Item	AP-SG4500-12GT-P-4XFP	
Multicast	IGMP v1/v2/v3 snooping, IGMP Proxy, IGMP v3	
	MLD v1/v2 snooping	
QoS	8 Queues Per Port	
	Bandwidth Control	
	Flow Redirect	
	Classification based on ACL, VLAN ID, COS, TOS, DSCP,	
	Policing Based on Port and VLAN	
	Single Rate single barrel double color for Policing	
	SP DWRR SDWRR SP+DWRR for Scheduling	
	Match the IP fragmentation of a message	
Maintenance and Operation Management	TFTP/FTP	
	CLI, Telnet, Console	
	Web/SSL (IPv4/IPv6)	
	SSH (IPv4/IPv6)	
	SNMPv1/v2c/v3	
	SNMP Trap	
	Public & Private MIB interface	
	RMON 1,2,3,9	
	Ping, Trace Route	
	Radius Authentication	
	Syslog (IPv4/IPv6)	
	SNTP/NTP (IPv4/IPv6)	
	Dual IMG, Multiple Configuration Files	
	Port Mirror, RSPAN	
	sFlow	
	OAM EFM	
	VCT, DDM	
	ULDP (like Cisco UDLD)	
	LDP/LLDP MED	
Green Energy	Fanless	Auto-speed fan
DataCenter Features	VSF(Virtual Switch Framework) (only 28 & 52 ports of models)	

ORDER INFORMATION

Product	Description
AP-SG4500-12GT-P-4XFP	L2+ Full Gigabit Access Switch with 8* 10/100/1000Base-T PoE and
	4* 10GE(SFP+) ports,static routing, 1 fixed AC power, PoE output up to 125w

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