Air Pro ®

Simple | Secure | Trusted

L2 Gigabit Access Switch

OVERVIEW

The AirPro AP-SG4500 Series delivers cost-effective, Gigabit Ethernet (GbE) standalone switches designed for enterprise-class access in campus and branch environments. These fully managed switches offer advanced Layer 2 features along with optional Power over Ethernet Plus (PoE+), ensuring seamless connectivity and efficient power distribution for network devices.

Engineered for operational simplicity, the AP-SG4500 Series reduces the total cost of ownership while providing scalable, secure, and energy-efficient network access. With intelligent services and enterprise-grade performance, these switches are ideal for businesses seeking reliable and high-performance network solutions.

Appearance	Description
AP-SG4500-10GT-2SFP	• 8x10/100/1000Base-T+2x100/1000Base-X (SFP) • 1 console, 1 reset port • AC power supply • Switching capacity: 20Gbps • Forwarding rate: 14.88Mpps
AP-SG4500-10GT-P-2SFP	• 8x10/100/1000Base-T+2x100/1000Base-X (SFP) • 1 console, 1 reset port • PoE+, 120W Power Budget • AC power supply • Switching capacity: 20Gbps • Forwarding rate: 14.88Mpps
AP-SG4500-28GT-4SFP	• 24x10/100/1000Base-T+4x100/1000Base-X (SFP) • 1 console, 1 reset port • AC power supply • Switching capacity: 56Gbps • Forwarding rate: 41.7Mpps
AP-SG4500-28GT-P-4SFP	• 24x10/100/1000Base-T+4x100/1000Base-X (SFP) • 1 console, 1 reset port • PoE+, up to 370w • AC power supply • Switching capacity: 56Gbps • Forwarding rate: 41.7Mpps

KEY FEATURES AND BENEFITS

Green Energy

The AP-SG4500 series is designed for optimal energy efficiency and silent operation, making it ideal for environments where power savings and noise control are critical. Energy-Efficient Ethernet (EEE) Compliance

- IEEE 802.3az (Energy-Efficient Ethernet) standard compliance significantly reduces power consumption.

- Automatically adjusts power usage based on network traffic, ensuring efficient energy utilization. Fanless architecture in select models ensures silent operation.

- Smart fan strategies dynamically adjust cooling based on real-time temperature monitoring.

- Reduces noise pollution, making it suitable for office, data center, and quiet environments.

Simple Operation and Maintenance

VCT, DDM (Digital Diagnostic Monitoring) and other features achieve rapid detection of the network failures; reduce operation and maintenance difficulty.

High Reliability

AP-SG4500 series support 4 Gigabit uplink ports, which could be designed to offer redundant uplinks with various ring protection applications, effectively raised the expansibility and performance of network.

G.8032 provides sub-50ms protection and recovery switching for Ethernet traffic in a carrier ring topology. AP-SG4500 series support 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.

Abundant Multicast Features

AP-SG4500 series also support MVR (Multicast VLAN Register), selectively allows traffic to cross between different VLANs for bandwidth and security reasons. With 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 to multicast devices.

PRODUCT SPECIFICATIONS

Hardware Specifications

Item	AP-SG4500-10GT-2SFP	AP-SG4500-10GT-P-2SFP	AP-SG4500-28GT-4SFP	AP-SG4500-28P-P-4SFP
Ports	8 x 100/1000Base-T + 2 x 100/1000Base-X (SFP) Auto-MIDX	8 x 100/1000Base-T + 2 x 100/1000Base-X (SFP) Auto-MIDX	24 x 100/1000Base-T + 4 x 100/1000Base-X (SFP) Auto-MIDX	24 x 100/1000Base-T+ 4 x 100/1000Base-X (SFP) Auto-MIDX
Performance				
Switching Capacity	20Gbps	20Gbps	56Gbps	56Gbps
Forwarding Rate	14.88Mpps	14.88Mpps	41.7Mpps	41.7Mpps
Flash	32M	32M	32M	32M
RAM	128M	128M	256M	256M
MAC ADDRESS	8K			
Jumbo Frame	10K			
ACL Table	1408			
Queues per port	8			
VLAN TABLE	4K			
Physical Features				
Dimension(W×H×D)	266mm x 43.6mm x 161mm	320mm x 43.6mm x 208mm	440mm x 43.6mm x 160mm	440mm x 43.6mm x 260mm
Power Input	100~240VAC, 50~60Hz			
Power Consumption	< 8w	Without PD: < 8w PoE Power: 120W	< 20w	Without PD: < 30w PoE Power: 370W
Cooling	Passive	Passive	Passive	Active
Main Features				
Forwarding	Storage and Forwarding			
VLAN	Port-based VLAN, IEEE802.1Q, private VLAN, Protocol VLAN, Voice VLAN, MAC VLAN Normal QinQ, Selective QinQ, Flexible QinQ VLAN Translation, N:1 VLAN Translation			
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		
	LACP	8 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 and bytes Port Security, MAC Limit based on VLAN and Port Anti-ARP-Spoofing , Anti-ARP-Scan, ARP Binding ND Snooping IP Source Guard, Dynamic ARP Inspection IEEE 802.1x Authentication, Authorization, Accounting Radius, TACACS+		
Multicast		IGMP v1/v2/v3 snooping, IGMP Fast leave MVR MLD v1/v2 snooping IPv4/IPv6 DCSCM		

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Hardware Specifications

Main Features	AP-SG4500
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 Remark DSCP, COS/802.1p, Precedence, TOS SP, WRR, SWRR, DWRR for Scheduling Match the IP fragmentation of message
Maintenance and Operation Management	TFTP/FTP CLI, Telnet, Console Cloud Managed Web/SSL (IPv4/IPv6) SSH (IPv4/IPv6) SNMPv1/v2c/v3 SNMP Trap Public & Private MIB interface RMON 1, 2, 3, 9 Ping, Trace Route Syslog (IPv4/IPv6) SNTP/NTP (IPv4/IPv6) Multiple Configuration Files Port Mirror, CPU Mirror, RSPAN VCT, DDM ULDP(like Cisco UDLD) LLDP/LLDP MED
Green Energy	IEEE 802.3az (Energy Efficient Ethernet) Fanless (10P, 10P-PL & 28P) LED Shut-off

ORDER INFORMATION

Product	Description
AP-SG4500-10GT-2SFP	L2 Gigabit Intelligent Ethernet Switch with 8*10/100/1000Base-T and 2*100/1000Base-SFP ports, 100-240VAC Power Input
AP-SG4500-10GT-P-2SFP	L2 Gigabit Intelligent Ethernet PoE Switch with 8*10/100/1000Base-T and 2*100/1000Base-SFP ports, 100-240VAC Power Input. 30w POE+ Supported. PoE output 120W
AP-SG4500-28GT-4SFP	L2 Gigabit Intelligent Ethernet Switch with 24*10/100/1000Base-T and 4* 100/1000Base-SFP ports, 100-240VAC Power Input
AP-SG4500-28GT-P-4SFP	L2 Gigabit Intelligent Ethernet PoE Switch with 24*10/100/1000Base-T and 4*100/1000Base-SFP ports, 100-240VAC Power Input. 30w POE+ Supported. PoE output 370W

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