




## Overview

AirPro AP-SG4500 series is full GbE standalone switches provide enterprise-class access for campus and branch applications. These fully managed switches can provide advanced Layer 2 features as well as optional Power over Ethernet Plus (PoE+) power. Designed for operational simplicity to lower total cost of ownership, they enable scalable, secure, and energy-efficient business operations with intelligent services.

Appearance	Description
 <p data-bbox="258 1249 529 1281">AP-SG4500-10GT-2SFP</p>	<ul data-bbox="673 1102 1257 1258" style="list-style-type: none"> <li>● 8x10/100/1000Base-T+2x100/1000Base-X (SFP)</li> <li>● 1 console, 1 reset port</li> <li>● AC power supply</li> <li>● Switching capacity: 20Gbps</li> <li>● Forwarding rate: 14.88Mpps</li> </ul>
 <p data-bbox="258 1630 529 1662">AP-SG4500-28GT-4SFP</p>	<ul data-bbox="673 1482 1273 1639" style="list-style-type: none"> <li>● 24x10/100/1000Base-T+4x100/1000Base-X (SFP)</li> <li>● 1 console, 1 reset port</li> <li>● AC power supply</li> <li>● Switching capacity: 56Gbps</li> <li>● Forwarding rate: 41.7Mpps</li> </ul>
 <p data-bbox="258 1818 529 1850">AP-SG4500-52GT-4SFP</p>	<ul data-bbox="673 1706 1273 1863" style="list-style-type: none"> <li>● 48x10/100/1000Base-T+4x100/1000Base-X (SFP)</li> <li>● 1 console, 1 reset port</li> <li>● AC power supply</li> <li>● Switching capacity: 104Gbps</li> <li>● Forwarding rate: 77.4Mpps</li> </ul>

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## Key Features and Benefits

### Green Energy

AP-SG4500 series comply with **IEEE 802.3az** (Energy-Efficient Ethernet) standard, dramatically lower power consumption. With **Innovative port-LED Shut-off** function, the user can automatically set the switch port-LED UP or DOWN at a specified time period according to their needs to achieve functional, energy-saving correct results. Full account of low noise requirements of the environment, AP-SG4500 uses **Fanless Design and Smart fan** strategies to real-time temperature monitoring system, and reduce the noise pollution.

### Enhanced Security

AP-SG4500 series provide a variety of security mechanisms like SYN Flood, Land, ICMP Flood attack prevention and other DOS class technology, BPDU Guard and Root Guard which avoid accidental topology loops and prevent illegal edge devices become root to cause unnecessary flapping.

**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 support **DHCP snooping**, which prevents DHCP attacks and illegal DHCP SERVER by setting trust ports and untrust ports. With DHCP Snooping

binding and option82 enabled, it can combine modules like dot1x and ARP, or implement user-access-control independently.

AP-SG4500 series support much more L2 security features such as **ARP guard**, **Anti-ARP scanning**, and other ARP and **MAC Security** technology to protect network security and reliability.

### 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

### AP-SG4500-Series

Item	AP-SG4500-52GT-4SFP	AP-SG4500-28GT-4SFP	AP-SG4500-10GT-2SFP
<b>Ports</b>	48 x 10/100/1000Base-T + 4 x 100/1000Base-X (SFP)	24 x 10/100/1000Base-T + 4 x 100/1000Base-X (SFP)	8 x 10/100/1000Base-T + 2 x 100/1000Base-X (SFP)
<b>Performance</b>			
<b>Switching Capacity</b>	104Gbps	56Gbps	20Gbps
<b>Forwarding Rate</b>	77.4Mpps	41.7Mpps	14.88Mpps
<b>MAC ADDRESS</b>	16K	16K	8K
<b>Jumbo Frame</b>	12K	12K	10K
<b>ACL Table</b>	2048	2048	1408
<b>Queues per port</b>	8	8	8
<b>VLAN TABLE</b>	4K	4K	4K
<b>Physical</b>			
<b>Dimension (W×H×D)</b>	442mm x 220mm x 43.6mm	442mm x 220mm x 43.6mm	220mm x 160mm x 44.3mm
<b>Power Input</b>	100~240VAC, 50~60Hz	100~240VAC, 50~60Hz	100~240VAC, 50~60Hz
<b>Power Consumption</b>	40W	20W	7W
<b>Cooling</b>	Active	Passive	Passive
<b>Temperature</b>	Working 0°C~50°C, Storage -40°C~70°C		
<b>Relative Humidity</b>	5%~95%, non-condensing		
<b>EMC Safety</b>	CE, RoHS		
<b>Main Features</b>			
<b>Forwarding</b>	Storage and Forwarding		
<b>VLAN</b>	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		
<b>DHCP</b>	IPv4/IPv6 DHCP Client, IPv4/IPv6 DHCP Relay Option 82, Option 37/38 IPv4/IPv6 DHCP Snooping, IPv4/IPv6 DHCP Server		
<b>Reliability</b>	<b>Spanning Tree</b>	802.1D STP, 802.1W RSTP, 802.1S MSTP Root Guard, BPDU Guard, BPDU Forwarding	
	<b>LACP</b>	16 groups / 8 ports	8 groups / 8 ports
<b>Reliability</b>	<b>L2Ring Protection</b>	MRPP ITU-T G.8032 Loopback Detection Fast Link	
	<b>Security</b>	IP ACL, MAC ACL, MAC-IP ACL, User-Defined ACL Time Range ACL ACL on VLAN interface 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 DAI IEEE 802.1x Authentication, Authorization, Accounting Radius, TACACS+	
<b>Multicast</b>	IGMP v1/v2/v3 snooping, IGMP Fast leave MVR		



Item	AP-SG4500-52GT-4SFP	AP-SG4500-28GT-4SFP	AP-SG4500-10GT-2SFP
	MLD v1/v2 snooping IPv4/IPv6 DCSCM		
<b>QoS</b>	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, WDRR for Scheduling Match the IP fragmentation of message		
<b>Maintenance and Operation Management</b>	TFTP/FTP CLI, Telnet, Console, Reset 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, CPU Mirror, RSPAN sFlow (SG4500-28P/52P) OAM EFM VCT, DDM ULDP(like Cisco UDLD) LLDP/LLDP MED		
<b>Green Energy</b>	IEEE 802.3az (Energy Efficient Ethernet) Fanless (10P and 28P) LED Shut-off		

## Order Information

Product	Description
AP-SG4500-52GT-4SFP	L2 Gigabit Intelligent Ethernet Switch with 48 10/100/1000Base-T and 4 100/1000Base-SFP ports, 100-240VAC Power Input
AP-SG4500-48GT-4SFP	L2 Gigabit Intelligent Ethernet Switch with 24 10/100/1000Base-T and 4 100/1000Base-SFP ports, 100-240VAC Power Input
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