# **L2 Fully Managed PoE Switch**



Air Pro®

## 24 x 10/100/1000Base-T PoE + 4 x 100/1000 Base-X (SFP)

#### **PRODUCT OVERVIEW**

AP-SG4500-28GT-P-4SFP is L2 gigabit uplink intelligent switch designed of carrier and MAN networks. It supports comprehensive QoS, enhanced VLAN functions (Dynamic VLAN, Voice VLAN, QinQ, N:1 VLAN Translation etc), Ethernet Ring Protection Protocol (G.8032), classified bandwidth control, intelligent security control, OAM(Operations, Administration and Maintenance), manageability functions and Triple-Play services which fulfill the network requirements demanded by carrier network, MAN access. AP-SG4500-28GT-P-4SFP 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.

AP-SG4500-28GT-P-4SFP is equipped with the full GE ports and 4 SFP uplink ports it integrates advanced management and security functions to provide performance and scalability.

#### **MAIN FEATURES**

- 24Ports 100/1000Mbps PoE with 4\*1G Uplink Ports + 1 Console Port
- Power Budget 370W
- PoE/PoE+
- Switching Capacity 56Gbps
- Packet Forwarding 41.6Mpps
- Jumbo Frame
- MAC Address 16K
- Support Cloud Management

### **KEY FEATURES AND HIGHLIGHTS**

#### L3 Forwarding

AP-SG4500-28GT-P-4SFP 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.

## **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-SG4500-28GT-P-4SFP 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-SG4500-28GT-P-4SFP 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.

#### **High Reliability**

AP-SG4500-28GT-P-4SFP supports 4\*1G 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-SG4500-28GT-P-4SFP 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.

#### **Abundant Multicast Features**

AP-SG4500-28GT-P-4SFP 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-SG4500-28GT-P-4SFP combines the VLAN data into the same link, saving lots of resources for users.

AP-SG4500-28GT-P-4SFP 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-SG4500-28GT-P-4SFP	AP-SG4500-28GT-P-4SFP		
Ports		24x10/100/1000Base-T	24x10/100/1000Base-T PoE		
		+4x100/1000Base-X (SFP) Auto-MIDX	+4x100/1000Base-X (SFP) Auto-MIDX		
		1x Console port	1x Console port		
		1x USB2.0 interface	1x USB2.0 interface		
Performance					
Switching Capacity		56Gbps	56Gbps		
orwarding Ro	ate	41.7Mbps	41.7Mbps		
MAC ADDRESS	5	16K	16K		
umbo Frame		10K bytes	10K bytes		
Packet Buffer		12M Bites	12M Bites		
ACL Table		512	512		
Queues per port		8	8		
VLAN TABLE		4K	4K		
Physical					
Dimension (W×H×D)		4440mm x 43.6mm x160mm	440mm x 43.6mm x 260mm		
Power Input		100~240VAC, 50~60Hz	100~240VAC, 50~60Hz		
Power Consumption		< 20W	< 450W with full PoE output		
Cooling		Passive	Active		
Temperature Working		0°C~50°C, Storage -40°C~70°	Working 0°C~50°C, Storage -40°C~70°		
Relative Humidity		5%~95%, non-condensing	5%~95%, non-condensing		
EMC Safety		CE, RoHS	CE, RoHS		
PoE		NA NA	IEEE 802.3af POE (15.4W)		
			IEEE 802.3at POE+ (30W)		
			PoE output 370w		
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			
	Spanning	802.1D STP, 802.1W RSTP, 802.1S MSTP			
	Tree		Root Guard, BPDU Guard, BPDU Forwarding, TCN filtering		
Reliability	LACP	64 groups / 8 ports			
	L2 Ring	Protection			
	Protection	ITU-T G.8032			
		Loopback Detection			
		Fast Link			
Multicast		IGMP v1/v2/v3 snooping, IGMP Proxy,			
Willicust		IGMP v3			
		MLD v1/v2 snooping			
QoS		8 Queues Per Port  Bandwidth Control			
		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			



## **PRODUCT SPECIFICATIONS**

## **Hardware Specifications**

Traffic Policing PRI Mark/Remark  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, VLAN routing interfaces Time Ranged ACL 802 tx 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 TACACS+ for IPv4 Inv4 Inv4 Inv4 DHCPV4/v6 DHCP Server/Client for IPv4/IPv6 Traffic Monitor DHCP Server/Client for IPv4/IPv6 Traffic Monitor SPIow Traffic Analysis CLI, WEB, Telinet, SNMPV1/v2c/v3 through IPv4 and IPv6 Syslog and external Syslog Server HTTP SSL SMMP MIB, SNMP TRAP FTP/FTP Management SNTP/NTP RMOM 1, 2, 3, 9 Authentication by Radius/TACACS SSH v1/v2 Dual firmware images/ Configuration files 80.2 sh OMM, 802 lag OMM		
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802.3ah OAM, 802.1ag OAM		SSH v1/v2
		Dual firmware images/ Configuration files
Data Center Features VSF(Virtual Switch Framework)		802.3ah OAM, 802.1ag OAM
	Data Center Features	VSF(Virtual Switch Framework)

## **PRODUCT INFORMATION**

Product	Description	
AP-SG6500E-8G24XF2Q	40G Ethernet Routing Switch, 8 x 10/100/1000Base-T (RJ45) + 24 x 10GE (SFP+) + 2 x 40GbE (QSFP+),	
	AC + 48VDC power supply	



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