AP SG4500 28P-4X

L2 Gigabits Dual Stack Intelligent Switch

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

- Green Energy

- Simple and Flexible Operation and Maintenance

- Enhanced Security

- High Reliability

- High adaptability VLAN Features

- Abundant Multicast Features

Air Pro

OVERVIEW

AP-SG4500 Series is L2 Gigabits intelligent switch designed for carrier and MAN networks. It supports comprehensive QoS, enhanced VLAN functions (VLAN VPN, 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. SG4500 Series switch offers green features like IEEE 802.3az (Energy Efficient Ethernet), 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 Series equipped with the full GE ports and 4 SFP uplink ports, the series integrates advanced management and security functions to provide performance and scalability.

KEY FEATURES

GREEN ENERGY:-
- 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, SG4500 uses Fanless Design and Smart fan strategies to real-time temperature monitoring system, and reduce the noise pollution.

SIMPLE AND FLEXIBLE OPERATION AND MAINTENANCE:-
- VCT, DDM (Digital Diagnostic Monitoring) and other features achieve rapid detection of the network failures; reduce operation and maintenance difficulty.

ENHANCED SECURITY:-
- 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.
- 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.
- 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.

KEY FEATURES

HIGH RELIABILITY:-

- 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. 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.

HIGH ADAPTABILITY VLAN FEATURES:-

- SG4500 series support 802.1Q and port based VLAN as well as MAC based VLAN, Voice VLAN and Protocol VLAN.
- Abundant QinQ technology including Normal QinQ, Selective QinQ, and Flexible QinQ, gives users maximum freedom to configure QinQ policy.
- N:1 VLAN Translation feature can translate multiple VLAN tags in the frames from access ports into one specified VLAN Tag. It provides a strong technical support for QoS policy convergence.

ABUNDANT MULTICAST FEATURES:-

- 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, SG4500-SI series combines the VLAN data into the same link, saving lots of resources for users.
- 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

ITEMS	SG4500-28P-4X
Ports	24 x 10/100/1000Base-T + 4 x 100/1000Base-X (SFP)
Switching Capacity	56Gbps
Forwarding Rate	41.7Mpps
MAC ADDRESS	8K
Jumbo Frame	10K
ACL Table	1408
Queues per port	8
VLAN TABLE	4K
Dimension(W×H×D)	440mm x 230mm x 44mm
Power Input	100~240VAC, 50~60Hz
Power Consumption	21.6W
Cooling	Passive
Temperature	Working 0°C~50°C, Storage -40°C~70°C
Relative Humidity	5%~95%,non-condensing
EMC Safety	CE, RoHS

DATASHEET

Air Pro

DATASHEET

Air Pro

BUSINESS FEATURES :

Hardware		
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
		ITU-T G.8032
		Loopback Detection
		Fast Link
Security		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+
Multicast		IGMP v1/v2/v3 snooping, IGMP Fast leave
		MVR
		MLD v1/v2 snooping
		IPv4/IPv6 DCSCM
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

BUSINESS FEATURES :

Hardware	
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)
	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 and 28P)
	LED Shut-off

ORDERING INFORMATION :

ITEMS	DESCRIPTION
AP-SG4500-28P-4X	L2 Gigabit Intelligent Ethernet Switch with 24 10/100/1000Base-T and 4 100/1000Base-SFP ports, 100-240VAC Power Input

Air Pro

www.airpro.in