

# AirPro SG3600 Series 10G Switch

## AP-SG3650 Layer 3 Switch

### PRODUCT OVERVIEW

The AP-SG3650 series switch is a layer 3 Ethernet switch, which can meet the needs of cost-effective Gigabit access and 10 Gigabit uplink for enterprise networks and operator customers. SG3650 uses a highperformance low-power network processor, provides Gigabit line-speed forwarding performance, supports green Ethernet line sleep capability, has the lowest power consumption of the same-level equipment in the industry, supports powerful QoS and ACL functions, and supports IP+MAC+ Security features such as port binding support service flow classification and packet priority marking. Support static data packet sampling, SFLOW function, support multi-port mirroring analysis function, support static and flexible QinQ function, support Ethernet OAM 802.3ag (CFM), 802.3ah (EFM), support strategy-based IPV4/6 unicast routing, support Flexible forwarding strategy.

SG3650:4\*10/100/1000M Combo+20\*SFP, 4\*1000M Base-X SFP/10GE SFP+, Dual power supply;.



### MAIN FEATURES

#### CARRIER-LEVEL EQUIPMENT STABILITY

- Support IPv4/IPv6 dual protocol stack platform
- Support multiple link redundancy and network redundancy protocols such as STP/RSTP/MSTP/ERPS/LACP
- Support PTP

#### PERFECT SAFETY MECHANISM

- Support ACL security filtering mechanism, which can provide security control functions based on MAC, IP, L4 port
- Support ARP attack automatic protection and user blocking functions
- Support DHCP attack automatic protection based on Mac Address and user blocking functions
- Support DDOS and virus attack protection
- Support DHCP-snooping/IP-source-Guard/802.1X and other security features
- Support link protection functions such as BFD, Flex Link, LACP and ERRP
- Support remote loop detection function
- Support CFM,EFM
- Support remote user authentication based on Tacacs+, Radius, and Local user authentication

#### POWERFUL QOS CAPABILITIES

- Support port speed and flow speed limit function
- Support classification based on service flow and QoS flow control function
- Support queue scheduling algorithms such as SP/WRR/SP+WRR
- Support port-based and service flow-based mirroring functions

#### ENHANCED MULTI-SERVICE CAPABILITIES

- Support DHCP Server and DHCP Relay
- Support L2-Tunnel
- Support Ethernet OAM protocol such as CFM. EFM

**RICH ROUTING PROTOCOL**

- Support static route.
- Support dynamic route such as RIP, OSPF, BGP, ISIS
- Support IPV4/IPV6 dual protocol stack, Support RIPng, OSPFv3.

**SIMPLE AND EASY-TO-USE NETWORK MANAGEMENT FUNCTION**

- Support CLI based on RS232 serial port, Telnet and SSHv2
- Support WEB-based configure operation management, support SNMP V1/V2/V3
- Support remote upgrade or equipment through FTP and TFTP

**PRODUCT SPECIFICATIONS**

**Hardware Specifications**

Item	AP-SG3650-24FX-4XFP
Port	4*10/100/1000M Combo+20*SFP, 4*1000M Base-X SFP/10GE SFP+
Exchange capacity	128Gbps
Packet forwarding rate	95Mbps
MAC	16K
Multicast	1K
Route	512
Memory and storage	Memory: 512MB, storage,32MB
power	AC: 100-240V 47/63Hz; DC: 36V-75V;
Power consumption	≤38W
weight	≤5kg
Dimensions (Width*height* depth)	440X260X44
Environment Temperature	Working Temperature: -10°C-55°C Storage temperature: -40°C-70°C
VLAN	Support 4K VLAN Support Vlan based on port, MAC and protocol Support dual Tag VLAN, port-based static QinQ and flexible QinQ
MAC	16K Mac address Support static MAC address setting Support black hole MAC address filtering Support port MAC address limit
ring network protocol	Support STP/RSTP/MSTP Support ERPS Ethernet ring network protection protocol Support Loopback-detection port loopback detection
port control	Support two-way bandwidth control Support port storm suppression Support 9K Jumbo ultra-long frame forwarding
Port aggregation	Support static link aggregation Support dynamic LACP Each aggregation group supports a maximum of 8 ports
Mirroring	Support port mirroring Support stream mirroring
ACL	Support standard and extended ACL Support ACL policy based on time period Provide flow classification and flow definition based on IP header information such as source/destination MAC address, VLAN, 802.1p, ToS, DSCP, source/destination IP address, L4 port number, protocol type, etc.
QoS	Support flow rate limiting function based on custom business flow Supports mirroring and redirection functions based on custom business flows Support priority marking based on custom service flow, support 802.1P, DSCP priority Remark capability Support port-based priority scheduling function, support queue scheduling algorithms such as SP/WRR/SP+WRR

## PRODUCT SPECIFICATIONS

### Software Specifications

Item	AP-SG3650-24FX-4XFP
Safety	<ul style="list-style-type: none"><li>Support user hierarchical management and password protection</li><li>Support IEEE 802.1X authentication</li><li>Support Radius&amp;TACACS+ authentication</li><li>Support MAC address learning limit, support black hole MAC function</li><li>Support port isolation</li><li>Support broadcast message rate suppression</li><li>Support IP Source Guard Support ARP flood suppression and ARP spoofing protection</li><li>Support DOS attack and virus attack protection</li></ul>
Layer 3	<ul style="list-style-type: none"><li>Support ARP learning and aging</li><li>Support static route</li><li>Support dynamic route RIP/OSPF/BGP/ISIS</li><li>Support VRRP</li></ul>
System management	<ul style="list-style-type: none"><li>CLI,Telnet,WEB,SNMP V1/V2/V3,SSH2.0</li><li>Support FTP, TFTP file upload and download</li><li>Support RMON</li><li>Support SNTP</li><li>Support system work log</li><li>Support LLDP neighbor device discovery protocol</li><li>Support 802.3ah Ethernet OAM</li><li>Support RFC 3164 Syslog</li><li>Support Ping and Traceroute</li></ul>



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