

10G Copper Routing Switch

PRODUCT OVERVIEW

AirPro AP6750E series are the next generation of enterprise-class stackable routing switches with fixed, built-in 10GbE uplink ports and ship with one power supply. These fully managed switches provide high availability, scalability, security, energy efficiency, and ease of operation with innovative features such as VSF, IEEE 802.3at optional. It is ideal for aggregation or access layer as its high performance, availability and reliability.



KEY FEATURES

- 24Ports 100/1000Mbps with 4*10G SFP Uplink + 1 Console Port.
- Power Supply Single Power
- PoE+
- PoE Budget 370w
- Switching Capacity 128Gbps
- Packet Forwarding 95Mpps
- Jumbo Frame 12K
- MAC Address 16K

KEY FEATURES AND HIGHLIGHTS

Performance and Scalability

With high switching capacity, AP6750E (R1) series support wire-speed L2/L3 forwarding and high routing performance for IPv4 and IPv6 protocols. The 10 Gigabit Ethernet connectivity of AP6750E(R1) AP6750E(R1) is accomplished via a hot-pluggable 10 Gigabit SFP+ transceiver which supports distance up to 300 meters over multimode fiber and 10 to 40km over single-mode fiber(The distance depends theoptical module chosen).

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 virtualized device are greatly enlarged by times under VSF. VSF also simplifies management work for network administrator and provides more reliability.

Rich L3 Features

AP6750E(R1) series delivers high-performance, hardware based IP routing. RIP, OSPF and BGP provide dynamic routing by exchanging routing information with other Layer 3 switches and routers. With AP6750E(R1) series, customers could easily achieve Policy based Route(PBR), which is important when they need multi exit application.

Strong Multicast

AP6750E(R1) series supports abundant multicast features. In Layer 2, such as IGMPv1/v2/v3 snooping and fast leave. L3 multicast protocols such as IGMPv1/v2/v3. With Multicast VLAN Register (MVR),multicast

receiver/sender control and illegal multicast source detect functions; AP6750E(R1) series provides great application experience for customer.

Easy High Reliability network

MRPP is Multi-layer Ring Protection Protocol, which is AirPro private fast Ethernet ring protocol. Comparing to spanning tree protocol, it has advantages of fast convergence, simple protocol calculation, less system resources cost and so on, which can improve the reliability of Ethernet network operation.

Comprehensive QoS

With 8 queues per port, AP6750E(R1) series enable differentiated management of up to 8 traffic types. The traffic is prioritized according to IEEE802.1p, DSCP, IP precedence and TCP/UDP port number, giving optimal performance to real-time applications such as voice and video. AP6750E(R1) series also supports Bi-directional rate-limiting, per port or traffic class, preserves network bandwidth and allows full control of network resources.

Abundant Ipv6 Support

AP6750E(R1) series supports IPv6 switching and routing based on hardware for maximum performance. With increased network devices growing the need for larger addressing and higher security become critical, AP6750E(R1) series will be a right product to meet this requirement.

PRODUCT SPECIFICATIONS

Hardware Specifications

Item	AP-SG6500E-28X-P-R1
Physical port	24 x10/100/1000BaseT+4
	10GE(SFP+)
	Auto-MIDX
Management port	1xRJ45 Ethernet Management port
	1 x Console port
	1 x Reset port
	1 x USB2.0 interface
Performance	
Switching Capacity	128Gbps
Forwarding rate	95Mbps
Jumbo Frame	12K
MAC Address	16K
ARP Table	4K
Routing Table	1K
ACLTable	1K
Physical	
Dimension(W*H*D)	440mm x 44mm x 320mm
Relative Humidity	10%~90% non-condensing, storage 95%
Temperature	Working 0°C~50°C, storage -40°C~70°C
Power Supply	AC:100~240VAC,50~60Hz
Power Consumption	<471W
PoE	IEEE 802.3af
	IEEE 802.3at
	Total PoE power: 370W
Main Features	
L1, L2	IEEE802.3(10Base-T), IEEE802.3u(100Base-TX),IEEE802.3z(1000BASE-X), IEEE802.3ab(1000Base-T),IEEE802.3ae(10GBase),IEEE802.3x, IEEE802.3ak(10GBASE-CX4)
	Port loopback detection
	LLDP and LLDP-MED
	ULDP
	802.3ad LACP, max128 group trunks with max 8 ports for each trunk support max 64 group trunks with max 8 ports for each trunk)
	LACP load balance
	ERPS(G.8032)
	N:1 Port Mirroring
	RSPAN
	IEEE802.1d(STP)
	IEEE802.1w(RSTP)
	IEEE802.1s(MSTP)
	Root Guard
	BPDU Guard
	BPDU Tunnel
	802.1Q,4K VLAN
	MAC VLAN, Voice VLAN, PVLAN,Protocol VLAN, Multicast VLAN
QinQ, Flexible QinQ	
GVRP	
N:1 VLAN Translation	
Broadcast / Multicast/Unicast Storm Control	
IGMP v1/v2/v3 Snooping and L2 Query	
ND Snooping	
MLDv1/v2 Snooping	
Port Security	
Flow Control: HOL, IEEE802.3x	
Bandwidth Control	

PRODUCT SPECIFICATIONS

Hardware Specifications

L3 Features	<p>Static Routing, RIPv1/v2, OSPFv2, BGP4 OSPFv3, BGP4+ OSPF multiple process LPM Routing Policy-based Routing (PBR) for Ipv4 and Ipv6 VRRP URPF, ECMP BFD</p>
	<p>IGMP v1/v2/v3, IGMP Proxy, Static Multicast Route Multicast Receive Control Illegal Multicast Source Detect</p>
	<p>ARP Guard, Local ARP proxy, Proxy ARP, ARP Binding, Gratuitous ARP, ARP Limit Anti ARP Cheat, Anti ARP Scan</p>
	<p>DNS Client, DNS Relay</p>
Ipv6	<p>6to4 Tunnel, Configured Tunnel, ISATAP Tunnel ICMPv6, ND, DNSv6 Ipv6 LPM Routing, IPv6 Policy-based Routing (PBR) Ipv6 VRRPv3, IPv6 URPF, Ipv6 RA RIPng, OSPFv3, BGP4+ MLD Snooping, IPv6 Multicast VLAN MLDv1/v2, Ipv6 ACL, Ipv6 QoS</p>
QoS	<p>8 Queues SP, WDRR, SWDRR Traffic Classification Based on 802.1p COS, ToS, DiffServ DSCP, ACL, port number Traffic Policing PRI Mark/Remark</p>
ACL	<p>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 statistics Rules can be configured to port, VLAN, VLAN routing interfaces Time Ranged ACL</p>
Security	<p>802.1x AAA Port, MAC based authentication Accounting based on time length and traffic Guest VLAN and auto VLAN</p>
	<p>RADIUS for Ipv4 and Ipv6</p>
	<p>TACACS+ for Ipv4 and Ipv6</p>
	<p>MAB</p>
DHCPv4/v6 Traffic Monitor	<p>DHCP Server/Client for IPv4/IPv6 DHCP Relay/Option 82 DHCP Snooping/Option 82</p>
Traffic Monitor	<p>sFlow Traffic Analysis</p>
Security Network Management	<p>CLI, WEB, Telnet, SNMPv1/v2c/v3 through Ipv4 and IPv6 Syslog and external Syslog Server HTTP SSL SNMP MIB, SNMP TRAP FTP/TFTP SNTP/NTP RMOM 1,2,3,9 Authentication by Radius/TACACS SSH v1/v2 Dual firmware images/Configuration files 802.3ah OAM, 802.1ag OAM</p>
Data Center Features	<p>VSF(Virtual Switch Framework)</p>

ORDER INFORMATION

Product	Description
AP6750E-28X-P-R1	10G Ethernet Routing Switch, 24 x 10/100/1000BaseT + 4 x 10GE(SFP+), 1 fixed AC power supply. Up to 370W for PoE



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