



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.

Description
<ul style="list-style-type: none">● 48 x 10/100/1000BaseT + 4 x 10GE(SFP+)● 1 console, 1 USB, 1 reset, 1 RJ45 management port● PoE+ up to 740w● AC + DC:-52V~-57V power supply● Switching capacity: 176Gbps● Forwarding rate: 131Mpps

Key Features and Benefits

Performance and Scalability

With high switching capacity, AP6750E (R2) series support wire-speed L2/L3 forwarding and high routing performance for IPv4 and IPv6 protocols.

The 10 Gigabit Ethernet connectivity of AP6750E(R2) AP6750E(R2) 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 the optical 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(R2) 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(R2) series, customers could easily achieve Policy based Route(PBR), which is important when they need multi exit application.

Strong Multicast

AP6750E(R2) 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(R2) 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(R2) 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(R2) 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(R2) 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(R2) series will be a right product to meet this requirement.



Specifications

Item	AP6750E-28X-R2	AP6750E-28X-P-R2	AP6750E-52X-R2	AP6750E-52X-P-R2
Physical port	24 x 10/100/1000BaseT + 4 x 10GE(SFP+) Auto-MIDX	20 x 10/100/1000BaseT + 4 x GE Combo(GT/SFP) + 4 x 10GE(SFP+) Auto-MIDX	48 x 10/100/1000BaseT + 4 x 10GE(SFP+) Auto-MIDX	48 x 10/100/1000BaseT + 4 x 10GE(SFP+) Auto-MIDX
Management port	1 x RJ45 Ethernet Management port			
	1 x Console port			
	1 x Reset port			
	1 x USB2.0 interface			
Performance				
Switching Capacity	128Gbps	128Gbps	176Gbps	176Gbps
Forwarding rate	95Mpps	95Mpps	131Mpps	131Mpps
Jumbo Frame	10K	10K	10K	10K
MAC Address	16K	16K	16K	16K
ARP Table	4K	4K	4K	512
Routing Table	1K	1K	1K	512
ACL Table	1K	1K	1K	512
Physical				
Dimension (W*H*D)	440mm x 44mm x 240mm	440mm x 44mm x 320mm	440mm x 44mm x 240mm	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	AC:100~240VAC, 50~60Hz	AC:100~240VAC, 50~60Hz	AC: 100~240VAC, 50~60Hz; DC:-52V~-57V
Power Consumption	<30W	<471W	<50W	<897W
PoE	NA	IEEE 802.3af IEEE 802.3at Total PoE power: 370W	NA	IEEE 802.3af IEEE 802.3at Total PoE power: 740W
Main Features				
L1, L2 Features	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, max 128 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)			



	<p>N:1 Port Mirroring RSPAN</p> <p>IEEE802.1d(STP) IEEE802.1w(RSTP) IEEE802.1s(MSTP) Root Guard BPDU Guard BPDU Tunnel</p> <p>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</p> <p>IGMP v1/v2/v3 Snooping and L2 Query ND Snooping MLDv1/v2 Snooping</p> <p>Port Security</p> <p>Flow Control: HOL, IEEE802.3x Bandwidth Control</p>
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	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
Security	802.1x 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
	MAB
DHCPv4/v6 Traffic Monitor	DHCP Server/Client for IPv4/IPv6 DHCP Relay/Option 82 DHCP Snooping/Option 82
Traffic Monitor	sFlow Traffic Analysis
Security Network Management	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
Data Center Features	VSF(Virtual Switch Framework)

Order Information

Product	Description
AP6750E-28X-R2	10G Ethernet Routing Switch, 24 x 10/100/1000BaseT + 4 x 10GE(SFP+), 1 fixed AC power supply
AP6750E-28X-P-R2	10G Ethernet Routing Switch, 20 x 10/100/1000BaseT + 4 x GE Combo (GT/SFP) + 4 x 10GE(SFP+), 1 fixed AC power supply. Up to 370W for PoE
AP6750E-52X-R2	10G Ethernet Routing Switch, 48 x 10/100/1000BaseT + 4 x 10GE(SFP+), 1 fixed AC power supply
AP6750E-52X-P-R2	10G Ethernet Routing Switch, 48 x 10/100/1000BaseT + 4 x 10GE(SFP+), fixed AC+DC redundant power supply, up to 740W for PoE