

AP-ESG3048P

# 48-port Gigabit + 4-port 10 Gigabit SFP+ Management PoE Switch with 48-port PoE+



## FEATURES

- Complies with IEEE 802.1d, IEEE 802.1w, IEEE 802.1s, IEEE 802.1p, IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3z, IEEE 802.3ab, IEEE 802.3ae standards.
- L3 management, supports DHCP Server, QoS, ACL control, supports SNMP V1/V2/V3, supports IGMP Snooping v1/v2.
- Supports Spanning Tree Protocol STP/RSTP/ MSTP (ERPS), supports loop detection and self-healing, and supports remote loopback monitoring and control (802.3ah OAM).
- Support multiple VLAN partitions, including MAC VLAN, protocol VLAN, and private VLAN;
- Supports IP address+MAC address+VLAN+port binding, supports DHCP Snooping, supports IP source and DAI protection.
- Supports IPV4/IPV6, RIP v1/v2, OSPF v2.
- Supports WEB, TELNET, CLI, SSH, SNMP, RMON management.
- Compatible with IEEE802.3af (15.4W), IEEE802.3at (30W), and IEEE802.3bt (90W).
- Support PoE watchdog, PoE port power supply and power configuration, PoE time management.

## PRODUCT SPECIFICATIONS

### Hardware Features & Performance

Item	AP-ESG3048P	
General	Interface	48 *Gigabit PoE ports (1-4 BT powered) 4* 10 Gigabit SFP+ports 1* RJ45 Console port 1* USB port
	Port Standard	IEEE802.3 (Ethernet)
		IEEE802.3u (Fast Ethernet)
		IEEE 802.3ab (Gigabit Ethernet)
		IEEE 802.3z (Gigabit Ethernet Fiber Standard)
		IEEE 802.3ae (10 Gigabit Ethernet)
		IEEE802.3x (Flow Control)
		IEEE 802.3az (Efficient and Energy saving Ethernet)
		IEEE 802.3ad (Link Aggregation)
		IEEE 802.1AB LLDP/LLDP MED (Link Layer Discovery Protocol)
		IEEE 802.1D Spanning Tree Protocol
		IEEE 802.1w Rapid Spanning Tree Protocol
		IEEE 802.1s Multiple Spanning Tree Protocol (Fast Spanning Tree)
		IEEE 802.1Q (Virtual Local Area Network)
IEEE 802.1p (VLAN Tag)		
IEEE 802.1X (User Authentication)		
Performance	Switching Capacity	176Gbps
	Packet Forwarding Rate	131Mpps
	Packet Buffer	16Mbit
	MAC Address Table	32K
	Jumbo Frame	support
	VLAN	VLAN range 1-4094, maximum active VLAN is 4K
	Transmission Method	Store and Forward
PoE	PoE Standard	IEEE802.3af ( 15.4W ) IEEE802.3at ( 30W )
	PoE Port Output Voltage	DC 44-57V
	PoE Ports	Port 1-48 PoE power output <30W
	PoE Power Budget	800W
Environment	Surge Protection	Surge Protection: Common mode 6KV, differential mode 2KV Electrostatic ESD: Air 8KV, Contact 6KV (Class C)
	Operating Temperature	0~40°C
	Storage Temperature	-40°C to 70°C
	Operation Humidity	10%~90% , non condensing
	Storage Humidity	5%~95% , non condensing
	Power Supply	AC 100-240V 50/60Hz DC 56V 14.3A 13V 7.16A
	Mainboard Power Consumption	57.2W
	Structure Information	Product Dimensions :440*360*44.5mm Packaging Dimensions :580*440*120mm Product Net Weight:5.78KG Product Gross Weight: 7.06KG
	Packing Information	Carton Dimensions :600*460*278mm Packing Quantity: 2PCS Packing Weight: 15.1 KG
	Packing List	switch 1pcs, power cord 1pcs, instruction manual 1pcs , certificate of qualification 1pcs
	Fan Quantity	4
	Installation	desktop
	PWR	On: Powered on Off: Powered off
	SYS	Flashing: System startup in progress On: The system is running normally
	Link/ACT	On: link normal Off: Link blocked Flashing: Data transmittin

## PRODUCT SPECIFICATIONS

### Software Features

Item	AP-ESG3048P
<b>L3 Function</b>	
IPv4	IPv4 VLAN Interface
	IPv4 Static Routes
	ARP
Ipv6	IPv6 VLAN Interface
	IPv6 Static Routes
	Ipv6 ND
RIP	V1/V2
OSPF	Router-ID
	Authentication
	V2
<b>L2 Function</b>	
Port	Port Switch configuration
	Port Description configuration
	Port Speed configuration
	Port Duplex configuration
	Port Flow Control configuration
	Support 10G/2.5G
	Jumbo Frame, Up to 10K
	EEE
Link Aggregation	Fiber Module(DDM)
	Supports load balance policy; Base on MAC and IP-MAC
	Static and Dynamic Group
	Supports LACP
Storm Control	Up to 8 groups
	Boardcast suppression
	Unknown Multicast
Port Mirroring	Unknown Unicast
	One to one monitor
	Many to one monitor
	Ingress/Egress/Both
Port Security	Up to 4 session groups
	MAC Address Constraints
	Port Security MAC Address
	Protect/Restrict/Shutdown
Port Isolation	support
Port Rate-limit	support
Loopback Detection	support
VLAN	Access/Trunk/Hybrid
	VLAN Tunnel ( Q-in-Q Tunnel )
	VLAN range 1-4094, maximum active VLAN is 4K
	Voice VLAN
	MAC VLAN
	Surveillance VLAN
	Protocol VLAN
GVRP	
MAC Address	Dynamic MAC address
	Static MAC address
	Filtering MAC Address
Spanning Tree Protocol	STP/RSTP/MSTP
	BPDU Filter
	BPDU Guard
	Edge Port
LLDP	LLDP
	LLDP MED
Multicast	IGMP Snooping
	IGMP V1/V2/V3
	Router Port
	Static IGMP group address
	IGMP groups filtering
	Querier
	MLD Snooping
MVR	

## PRODUCT SPECIFICATIONS

### Software Features

Item	AP-ESG3048P
QoS	Traffic classification based, Strict priority and WRR
	Port Priority
	802.1P Priority
	IP TOS Priority
	IP DSCP Priority
	Supports up to 8 queues per port
Priority Remarking	
ERPS	Only SFP port
<b>PoE</b>	
PoE Configuration	PoE Temperature
	PoE Type/Level/Power/Voltage/Current query
	PoE Switch Configuration
	PoE Watchdog Configuration
	IEEE 802.3bt , compatible with IEEE 802.3af/802.3at PoE
PoE power AF/AT adaptation	
PoE Schedule	support
PoE Port Timer Reboot	support
<b>Services</b>	
DHCP	DHCP Server
	IP Pool
	Static Binding
	Option 43
	DHCP Rela
Access Protocol	HTTP
	HTTPS
	Telnet
	SSHv2
	Manager ACL
	Session Timeout
	Password Retry Count
Silent Time	
<b>Security</b>	
AAA	RADIUS
	TACACS+
	802.1X
	Base on port/MAC/local/WEB
DHCP Snooping	Global/VLAN
	Option 82
	Circuit ID
IP Source Guard	support
Dynamic ARP Inspection	support
DoS	support
ACL	MAC ACL
	IPv4 ACL
	Ipv6 ACL
<b>Diagnostics</b>	
Syslog	Logging Message
	Remote Server
Ping	support
Traceroute	support
Copper Test	support
UDLD	support
<b>Equipment Management</b>	
Manager Acces	Console
	HTTP/HTTPS
	Telnet
	SSH
	SNMP
Manager IP	Static Address
	DHCP Client
	Supports IPv4 and IPv6 address
	Manager VLAN
	DNS
Time Synchronization	SNTP
	Manual Time

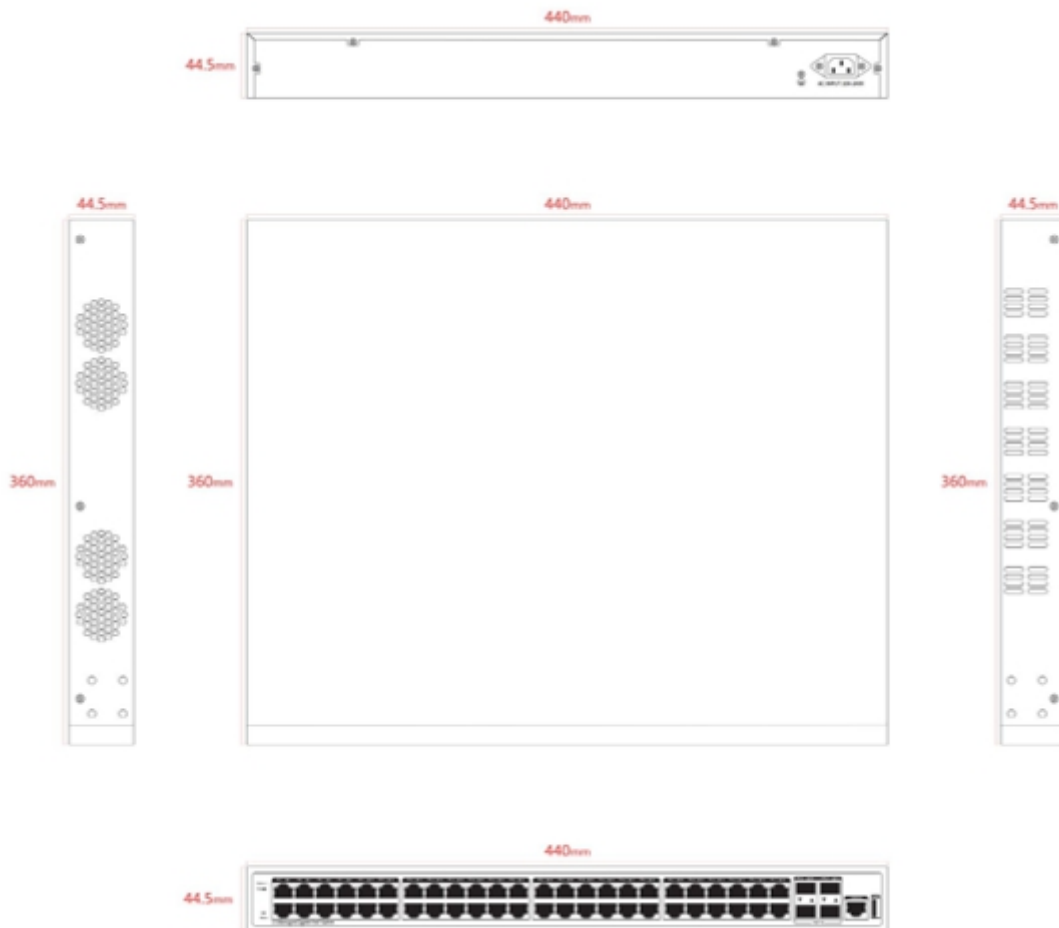
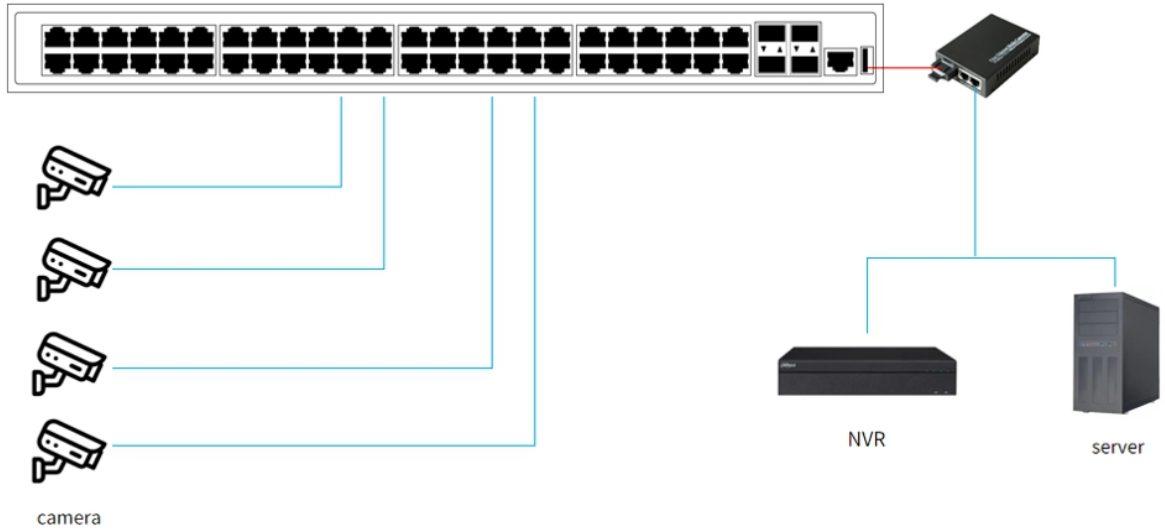
## PRODUCT SPECIFICATIONS

### Software Features

Item	AP-ESG3048P
SNMP	V1/V2C/V3
	Community
	V3 User
	Group
	Trap Host
SNMP MIB	RFC 1213 MIB-II
	RFC 1493 Bridge MIB
	RFC 1643 Ethernet MIB
	RFC 2819 RMON MIB (Groups 1, 2, 3 and 9)
	RFC 2863 Interface MIB
	LLDP
RMON	Private MIB
	Statistics
	History Configuration
	Event Configuration
User Management	Alarm Configuration
User Management	support
Firmware Management	Firmware upgrade
	Double Image; Swap between Active and Alternate firmware image.
Configuration Management	Upload and download
	Upload and download via USB interface
Save	support
Restart	support
Factory Defaults	support
<b>Standard Compliance</b>	
IEEE 802.3x flow control and back pressure	
IEEE 802.3ad port trunk with LACP	
IEEE 802.1D Spanning Tree Protocol	
IEEE 802.1w Rapid Spanning Tree Protocol	
IEEE 802.1s Multiple Spanning Tree Protocol	
IEEE 802.1p Class of Service	
IEEE 802.1Q VLAN tagging	
IEEE 802.1x Port Authentication Network Control	
IEEE 802.1ab LLDP	
IEEE 802.3af Power over Ethernet	
IEEE 802.3at Power over Ethernet Plus	
IEEE 802.3bt PoE++ Power over Ethernet Plus Plus	
RFC 768 UDP	
RFC 793 TFTP	
RFC 791 IP	
RFC 792 ICMP	
RFC 2068 HTTP	
RFC 1112 IGMP v1	
RFC 2236 IGMP v2	
RFC 3376 IGMP v3	
RFC 2710 MLD v1	
FRC 3810 MLD v2	
RFC 2328 OSPF v2	

# PRODUCT STRUCTURE DIAGRAM

— Ethernet cable      — Fiber optic cable



[www.airpronetworks.com](http://www.airpronetworks.com)