

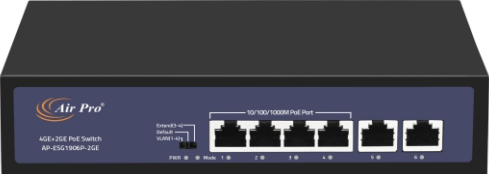
High-Performance 6-Port Gigabit PoE Switch

PRODUCT OVERVIEW

The 6-Port Gigabit PoE Switch is a high-performance networking solution designed for efficient data transmission and power delivery. Equipped with 8× 10/100/1000Mbps PoE ports and 2× 1G RJ45 uplink ports, it ensures seamless connectivity for IP cameras, VoIP phones, wireless access points, and other PoE-enabled devices.

Fully compliant with IEEE 802.3, 802.3u, and 802.3x standards, this switch supports auto-negotiation, Auto MDI/MDIX, and line-speed switching on all ports. Its flow control mechanism ensures reliable communication—IEEE 802.3x for full-duplex and back pressure for half-duplex modes. Built with a store-and-forward architecture, it enhances data integrity while minimizing latency.

Additional features like VLAN support, mode switching (Default, VLAN, Extend), and LED indicators for real-time monitoring make it ideal for small to medium-sized business networks, surveillance systems, and smart office environments.

Appearance	Description
	<ul style="list-style-type: none">• 4× 1Gbps PoE ports + 2× 1Gbps RJ45 uplink ports• Fully compliant with IEEE 802.3, 802.3u, 802.3ab, 802.3z, and 802.3x standards.• RJ45 ports support 10/100/1000Mbps auto-negotiation.• Automatically detects and adjusts for straight-through or crossover cables.• Utilizes store-and-forward switching architecture for reliable data transmission.

KEY FEATURES AND HIGHLIGHTS

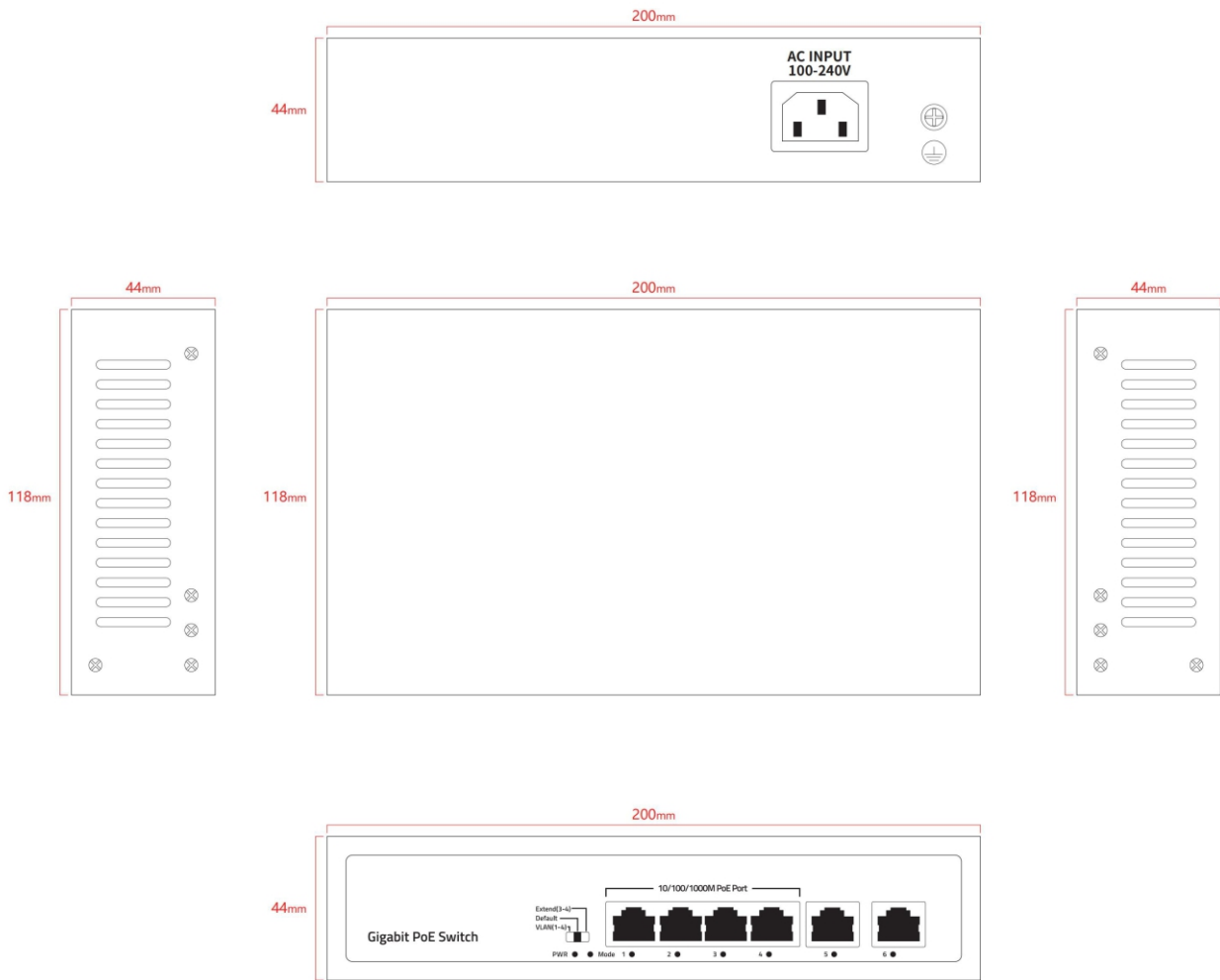
- **Port Configuration:**
4× 1Gbps PoE ports + 2× 1Gbps RJ45 uplink ports
- **Standards Compliance:**
Fully compliant with IEEE 802.3, 802.3u, 802.3ab, 802.3z, and 802.3x standards
- **Speed Adaptation:**
RJ45 ports support 10/100/1000Mbps auto-negotiation
- **Flow Control:**
 - Full duplex: IEEE 802.3x flow control
 - Half duplex: Back pressure mechanism
- **Auto MDI/MDIX:**
Automatically detects and adjusts for straight-through or crossover cables
- **Switching Method:**
Utilizes store-and-forward switching architecture for reliable data transmission
- **LED Indicators:**
LED panel provides real-time monitoring of link status, PoE activity, and fault conditions
- **Operating Modes:**
Supports VLAN, Default, and Extend modes for flexible deployment
- **PoE Watchdog:**
Automatically recovers unresponsive PoE devices to ensure continuous network stability

PRODUCT SPECIFICATIONS

Hardware Specifications

Item	AP-ESG1906P-2GE
Interface	4 *1G PoE ports 2* 1G RJ45 port
Port Standards	IEEE 802.3 (Ethernet) IEEE 802.3u (Fast Ethernet) IEEE 802.3ab (Gigabit Ethernet) IEEE 802.3x (Flow Control)
Switching Bandwidth	12Gbps
Packet Forwarding Rate	8.928 Mpps
Packet Buffer	1 Mbit
MAC Address Table	2K
Transmission Method	Store and Forward
PoE Standards	IEEE 802.3af (15.4W) IEEE 802.3at (30W)
PoE Output Voltage	DC 44–57V
PoE Ports	Port 1-4 PoE power output <30W
PoE Power Budget	60W
Power Supply	AC 100-240V 50/60Hz DC 52V 1.25A
Mainboard Power Consumption	3.7W
Structure Information	Product Dimensions :200*118*44mm Packaging Dimensions : 245*190*60mm Product Net Weight:0.61Kg Product Gross Weight:0.91Kg
Packing Information	Carton Dimensions :520*320*400mm Packing Quantity: 20PCS Packing Weight: 19.2KG
Package Contents	Switch 1pcs, power cord 1pcs, manual 1pcs,certificate of qualification 1pcs
Fan Quantity	0
Installation	Desktop
Surge Protection	Port Surge: common mode 4KV, differential mode 2KV Electrostatic ESD: Air 8KV, Contact 6KV(Class B)
Operating Temperature	0~40°C
Storage Temperature	-40 °C to 70 °C
Operation Humidity	10%~90%,non condensing
Storage Humidity	5%~95%,non condensing
PWR Red LED	On: Powered on Off: Powered off
SW Green LED	On: VLAN Flashing: Extend Off: Default
1-6 Green LED	On: 10M/100M/1G Link normal Off: Link blocked Flashing: Data transmitting
VLAN/Default/Extend Modes Buttons	VLAN: Isolation mode, 1-4 ports isolated from each other, communicating with 5-6 ports, and enable PoE watchdog mode on ports; Default: Normal mode, all interfaces can communicate with each other, transmission distance is within 100 meters, transmission rate is 10M/100M/1G adaptive, and port PoE watchdog mode turned off; Extend: Link extension mode, 3-4 ports data transmission distance can be extended to 250 meters, transmission speed is 10Mbps, and enable PoE watchdog mode on ports.

PHYSICAL APPLICATION REFERENCE



www.airpronetworks.com