DATASHEET
AP-IGS106P

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6-Port Gigabit Industrial PoE Switch

PRODUCT OVERVIEW

This rugged industrial PoE switch is designed for reliable performance in harsh environments and supports both DIN-rail and wall mounting.
It features:

- 4× Gigabit PoE ports,
- 2× Gigabit SFP uplink ports,
- Power Supply Input: DC 48–55V,
- Operating Temperature: -40°C to +75°C

The switch is certified for use in industrial environments and complies with CE standards. Its robust and reliable industrial-grade design ensures stable and uninterrupted operation, making it ideal for demanding automation systems and harsh operating conditions.

Appearance	Description
	• Port Configuration: 4× 1Gbps PoE ports + 2× 1Gbps SFP uplink ports • High-Power PoE Support: - Port 1: Supports IEEE 802.3af/at/bt (up to 90W, BT standard) - Ports 2–4: Support IEEE 802.3af/at standard PoE • Industrial Durability: - Operating temperature: -40°C to +75°C - Surge protection: 4KV - ESD protection: Air 8KV, Contact 6KV • Power Input: 4-pin industrial terminal + DC 2.1 interface, supports wide voltage input (DC 48–55V) • Mode Selection: 3 DIP switch modes – VLAN, Genius, Extend • Flexible Installation: Supports both DIN-rail and wall mount options

APPLICATION ENVIRONMENT

This industrial PoE switch is purpose-built for challenging and mission-critical environments that demand reliable, high-performance network connectivity. Its rugged design, wide operating temperature, and enhanced surge and ESD protection make it ideal for the following applications:

- Industrial Automation:
  Seamlessly connects controllers, sensors, and IP devices across factory floors and industrial plants.
- Surveillance Systems:
  Powers and connects high-resolution IP cameras in outdoor or remote locations, including parking lots, perimeters, and transport hubs.
- Transportation & Smart Infrastructure:
  Suitable for deployment in intelligent traffic systems, toll gates, and roadside cabinets requiring stable, high-speed communication.
- Renewable Energy Sites:
  Enables remote monitoring and control of solar farms, wind turbines, and energy storage systems in extreme conditions.

The switch's flexibility in power input, mounting options, and operating modes (VLAN, Genius, Extend) ensures it adapts efficiently to diverse and demanding industrial environments.

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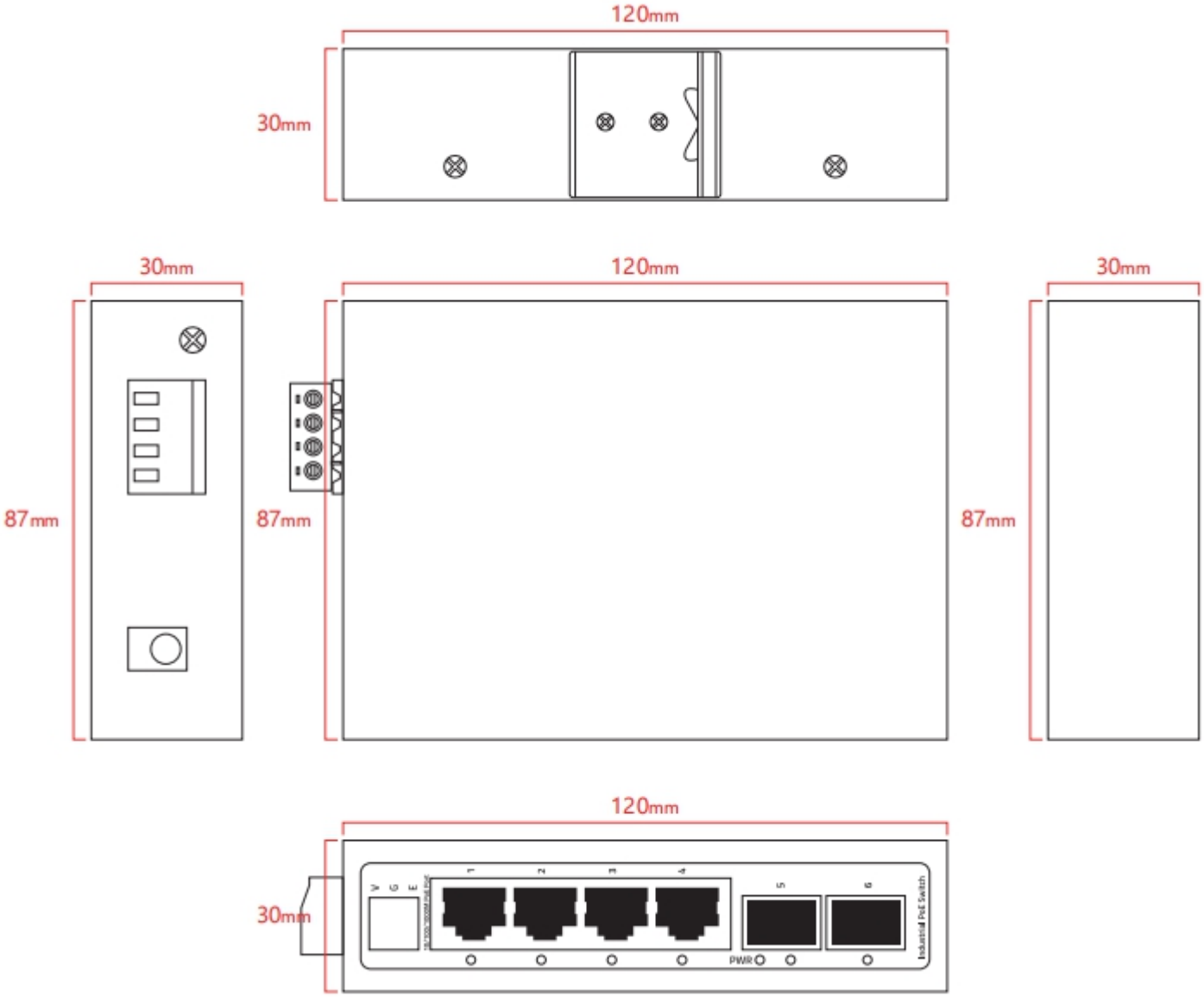
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PRODUCT SPECIFICATIONS

Hardware Specifications

Item	AP-IGS106P
Interface	4*1Gbps PoE ports 2*1Gbps SFP ports
Port Standard	IEEE802.3 IEEE802.3i IEEE802.3u IEEE802.3ab IEEE802.3z
Switching Bandwidth	12Gbps
Packet Forwarding Rate	8.928Mpps
Jumbo frame	9.6Kbytes
MAC Address Table	8K
Transmission Method	Store and Forward
PoE Standard	IEEE802.3af (15.4W) IEEE802.3at (30W) IEEE802.3bt (90W)
PoE Port Output Voltage	DC 48-55V
PoE Ports	Port 1 support BT90W power supply Ports 2-4 PoE power output <30W
PoE Power Budget	According to the adapter
Power Supply	DC12~55V DC48~55V (PoE) Power wiring: 4 PIN industrial terminals (redundant V1+V1-, V2+V2-)
Certification	CE, FCC, RoHS
Mainboard Power Consumption	2.49W
Structure Information	Product Dimensions: 120*87*30 mm Packaging Dimensions: 175*130*55mm Product Net Weight: 0.441 KG Product Gross Weight: 0.530 KG (excluding power supply)
Packing Information	Carton Dimensions: 540*290*375mm Packing Quantity: 40PCS Packing Weight: 22.2KG
Package Contents	Switch 1pcs, Manual 1pcs, Certificate of Inspection 1pcs
Fan Quantity	0
Installation	Desktop, Wall mounting installation, Rail installation
Surge Protection	Port Surge: Common mode 4KV, Differential mode 2KV Electrostatic ESD: Air 8KV, Contact 6KV
Operating Temperature	-40~75°C
Storage Temperature	-40~85°C
Operation Humidity	10%~90%, non condensing
Storage Humidity	5%~95%, non condensing
PWR Green LED	On: Powered on Off: Powered off
Ports 1-6 Green LED	Slow Flashing: 10/100/1000Mbps Link normal Off: Link blocked Fast Flashing: Data transmitting
V/G/E Modes Buttons	V: VLAN mode, ports 1-4 are isolated from each other, communicating with ports 5-6 G: Normal mode, all ports can communicate with each other, transmission distance is within 100 meters, transmission rate is 10/100/1000Mbps adaptive E: Extend mode, when the PoE port is in Extend mode, ports 1-4 force 10Mbps to extend the transmission distance to 250meters

PHYSICAL APPLICATION REFERENCE



All specifications in this document are subject to change without notice. AirPro products are sold with a limited warranty described at: www.airpronetworks.com
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