

IP16GESP2

# IP ETHERNET SWITCH

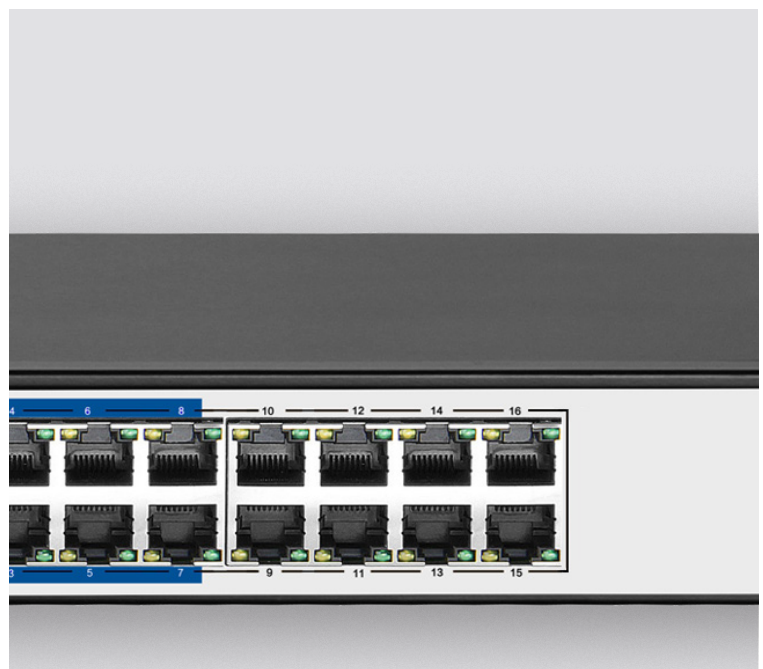
16 Port Gigabit Layer 2 Managed PoE Switch



## Key Features

- 6KV lightning protection
- Short cut functions: AI VLAN, AI Extend 1~8 port 250m PoE distance, AI PoE, AI QoS (video priority)
- Support based on the port number, IP address, MAC address and user access restrictions
- Supports PoE and settings for PoE port priority
- Supports L2 (Layer 2) ~ L4 (Layer 4) packet filtering
- Supports multi-cast suppression
- Supports loop protection, root bridge protection, TC protection, BPDU protection and BPDU filtering
- Supports broadcast suppression
- Supports unknown unicast suppression
- Supports static aggregation
- Supports dynamic aggregation
- Supports IP, MAC and hybrid load balancing modes
- Supports up to 32 aggregation groups
- Supports Web network management (HTTP, HTTPS, SSL, V3)
- Supports SNMP V1/V2/V3
- Supports LLDP, RMON,
- Supports ARP protection, IP source protection, DoS protection
- Supports Ping, Tracert detection and cable detection

The Genie **IP16GESP2** is a 16 port managed PoE switch designed for security transmission and Wi-Fi coverage. It can meet the PoE power supply requirements of Wi-Fi AP, IP camera, Wi-Fi bridge, IP phone and other types of equipment. The product adopts a new generation of high-performance hardware and software platforms to provide flexible, cost-effective access and Gigabit uplink ports for complete security protection. It's easy to manage and maintain, and meet user requirements for network equipment for high security but at a low-cost. The **IP16GESP2** is applicable to network access, aggregation, and core application scenarios of many applications.



# Specification

## Software

<b>Protocol Standard</b>	IEEE 802.3: Ethernet Media Access Control (MAC) Protocol IEEE 802.3i: 10BASE-T Ethernet IEEE 802.3u: 100BASE-TX Fast Ethernet IEEE 802.3ab: 1000BASE-T Gigabit Ethernet IEEE 802.3z: 1000BASE-X Gigabit Ethernet (fiber) IEEE 802.3ad: Standard method for performing link aggregation IEEE 802.3x: Flow control IEEE 802.1p: LAN Layer 2 QoS/Cos protocol for traffic priority (multi-cast filtering) IEEE 802.1q: VLAN IEEE 802.1d: STP Spanning tree IEEE 802.1s: MSTP Spanning tree IEEE 802.1w: RSTP Spanning tree IEEE 802.3af IEEE 802.3at	<b>Access Control (ACL)</b> Supports L2 (Layer 2) ~ L4 (Layer 4) packet filtering Supports port mirroring, port redirection, flow rate limiting, QoS re-marking
<b>Shortcut Function</b>	One key AI VLAN One key AI Extend (1-8 Port 250m PoE distance) One key AI PoE One key QoS (Video priority)	<b>Quality of Service (QoS)</b> Supports 8 port queue Supports port priority, 802.1p priority, DSCP priority
<b>DHCP VLAN</b>	Supports DHCP Snooping Supports 4K VLAN Supports 802.1Q VLAN, MAC VLAN ,IP VLAN Voice VLAN	<b>Spanning Tree</b> Supports STP (IEEE 802.1d), RSTP (IEEE 802.1w) and MSTP (IEEE 802.1s) protocol Supports loop protection, root bridge protection, TC protection, BPDU protection, BPDU filtering
<b>MAC Address Table</b>	Comply the IEEE 802.1d standard, Supports MAC address learning and aging automatically. Supports static, dynamic, filter address table	<b>Multicast</b> Supports IGMP v1/v2 Snooping Supports fast leave mechanism Supports multicast VLAN Supports multicast filtering, packet statistics, and unknown multicast discards.
<b>Safety</b>	Password protection Supports based on the port number, IP address, MAC address restrictions on user access Supports HTTPS, SSL V3, TLS V1, SSH V1/V2 Supports IP-MAC-PORT ternary binding Supports ARP protection, IP source protection, DoS protection Supports DHCP Snooping, DHCP attack protection Supports 802.1X certificated, AAA Supports port security, port isolation Supports CPU protection	<b>Storm Suppression</b> Supports multi-cast suppression Supports broadcast suppression Supports unknown unicast suppression Supports static aggregation Supports dynamic aggregation Supports IP, MAC, and hybrid load balancing modes Supports up to 32 aggregation groups
<b>PoE Management</b>	Supports PoE power limit Supports PoE chip status view Supports setting PoE port priority Supports setting PoE power supply time period	<b>IPv6</b> Supports IPv6 Ping, IPv6 Tracert, IPv6 Telnet Supports IPv6 SSH, IPv6 SSL
		<b>Management and Maintenance</b> Supports Web network management (HTTP, HTTPS, SSL V3) Supports CLI (Telnet, SSH V1/V2, local serial port) Supports SNMP V1/V2/V3 Supports LLDP, RMON Supports ARP protection, IP source protection, DoS protection Supports CPU monitoring, memory monitoring Supports system log, grading warning Supports Ping, Tracert detection, cable detection

# Specification

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## Hardware

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<b>Network Standard</b>	IEEE 802.3i IEEE 802.3u IEEE 802.3x IEEE 802.3ab IEEE 802.3af IEEE 802.3at
<b>Port</b>	16 10/100/1000Mbps RJ45 port 2 gigabit SFP 1 Console
<b>PoE</b>	16 10/100/1000Mbps RJ45 port support PoE+ Max 150W Single port max 46W
<b>LED's</b>	18 Link/Act LED'S 16 PoE LED's 1 SYS LED 1 Power LED
<b>Performance</b>	Forwarding mode: Store and forward Bandwidth: 36Gbps Packet forwarding rate: 23.8Mpps 8K MAC address table
<b>Lightning Protection</b>	6KV
<b>Input</b>	100–240V/50–60Hz
<b>Dimensions</b>	440 × 180 × 44 mm