

24-Port Gigabit Managed PoE switch

PS3024GSH

Product Brochure

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Product Introduction

PS3024GSH is a managed PoE switch specially designed for security transmission and WIFI coverage. It can meet the PoE power supply requirements of various types of devices such as WIFI AP, IP-camera, WIFI bridge, and IP phone. The product adopts a new generation of high-performance hardware and software platforms, provides flexible and cost-effective access and Gigabit uplink ports, supports complete security protection mechanisms, complete ACL/QoS policies and rich VLAN functions, easy to manage and maintain, and meets user needs. For the networking requirements of easy management, high security and low cost of network equipment, it is suitable for various application scenarios of campus, hotel and enterprise campus network access, aggregation, and core.





Main Features

Port 6KV lightning protection

• All ports support 6KV lightning protection, PSE short circuit protection, PoE overload, power supply over temperature protection, over voltage protection, surge current protection and other protection features.

AI smart button

- AI Extend: 1-8 ports support long-distance power supply of 250 meters (recommended to use super five or more network cables).
- AI VLAN: Isolate ports 1-24 from each other, which can effectively suppress network storms and improve network performance.
- AI QoS: Prioritize the identified video data for smoother video transmission.
- AI PoE: Automatically detect the power receiving port, find a dead device, and restart the device after power off.

Powerful business processing capabilities

- Support 802.1Q VLAN, MAC VLAN, IP VLAN, users can flexibly divide VLAN as needed.
- Support QoS, 8 port queues, support port priority, 802.1P priority, DSCP priority, support SP, WRR, SP+WRR, WFQ priority scheduling algorithm.
- \bullet Support ACL, support L2 (Layer 2) \sim L4 (Layer 4) packet filtering function, provide flexible and secure access control policy.
- Support IGMP v1/v2/v3 Snooping, MLD v1/v2 Snooping, to meet the requirements of multiterminal HD video surveillance or video conference.
- Supports the fast leave mechanism and querier of Layer 2 multicast, supports Layer 2 IPv4 static multicast and Layer 2 IPv6 static multicast.

Perfect security mechanism

- Complete security authentication mechanism: It supports IEEE 802.1x, Radius, Tacacs+, etc., and can provide users with a complete security authentication mechanism.
- The perfect loop detection mechanism can ensure the stable operation of the network for a long time.
- Provide port isolation in the same VLAN, and security features such as DHCP-Snooping, IP+MAC+port binding, etc., to further ensure user data security.
- Support ARP protection, IP source protection, DoS protection.
- Support to restrict user access based on port number, IP address, and MAC address.



Diverse reliability protection

- Support STP (IEEE 802.1d), RSTP (IEEE 802.1w) and MSTP (IEEE 802.1s) protocols to eliminate Layer 2 loops and implement link backup.
- Supports loop protection, root bridge protection, TC protection, BPDU protection, and BPDU filtering.
- Support 50ms switching of optical ports.

Perfect POE power supply function

- Support 802.3af/at standard, built-in high-power power supply, meet the needs of POE scenarios such as security monitoring, wireless coverage, and IP telephony.
- Support PoE power limit and set PoE port priority. When the power exceeds the limit, the power supply of the high-priority port will be given priority.
- Support setting PoE power supply time period, users can control the time period of PoE power supply according to their own needs.
- Support PoE chip status check, users can view the PoE chip temperature, output power and other parameters in real time through the web page.

Flexible and convenient management and maintenance

- Supports various management methods such as Console, Telnet, and SSH.
- Support WEB network management (HTTP, HTTPS, SSL V3), which is simpler and more efficient, and is convenient for users to install and debug.
- Supports file upload and download management in TFTP mode.
- Support SNMP V1/V2/V3 to facilitate device management through the network management platform.
- Support one-stop management and maintenance of Fengrunda Apollo cloud platform, which can realize all-round remote operation and maintenance such as automatic device discovery, network topology management, and remote configuration management of devices.



Product Specifications:

Hardware Specifications		
Network Interface	• 24 10/100/1000Mbps RJ45 Port (POE)	
	• 2 10/100/1000Mbps RJ45 Port (Non-POE)	
	• 2 Gigabit SFP Port	
	• 1 Console Port	
Network protocol standard	● IEEE 802.3、IEEE 802.3i、IEEE 802.3u、IEEE 802.3ab、 IEEE 802.3z、IEEE 802.3ad、IEEE 802.3x、IEEE 802.1p、 IEEE 802.1q、IEEE 802.1d、IEEE 802.1s、IEEE 802.1w、 IEEE 802.3af、IEEE 802.3at	
Performance Specifications	Bandwidth : 56Gbps	
	• Packet forwarding rate : 41.7Mpps	
	MAC address table : 8K	
	●Port cache : 4.1Mb	
	Forwarding Mode: Store and Forward	
LED indicator	28 Link/Act indicators	
	• 24 PoE indicators	
	• 1 Power indicator	
	• 1 SYS indicator	
POE PIN	• 1/2 (+) , 3/6 (-)	
	● Input power : AC 100-240V/50-60Hz	
Power support	• Single port maximum output power : 30W	
	● The maximum power of the whole machine : 250W	
Physical Specifications	• Dimensions (LxWxH): 440mm×180mm×44mm	
Environmental Specifications	Operating temperature : 0°C~40°C	
	Storage temperature : -40°C ∽70°C	
Environmental Specifications	• Working humidity: 10%~ 90% RH non-condensation	
	● Storage humidity: 5%∽90% RH non-condensation	
Safety regulations	CE/ROHS/FCC	



Software Specifications		
VLAN	Support 4K VLAN	
	Support 802.1Q VLAN、MAC VLAN ,IP VLAN	
DHCP	Support DHCP Snooping	
MAC Address table	Follow IEEE 802.1d standard Support MAC address automatic learning and aging Support static, dynamic, filtering address table	
Safety features	Password protection	
	Support to restrict user access based on port number, IP address, MAC address	
	Support HTTPS, SSL V3, TLS V1, SSH V1/V2	
	Support IP-MAC-PORT ternary binding	
	Support ARP protection, IP source protection, DoS protection	
	Support DHCP Snooping, DHCP attack protection	
	Support 802.1X authentication, AAA	
	Support port security and port isolation	
	Support CPU protection function	
PoE Managed	Support PoE power limit	
	Support PoE chip status check	
	Support setting PoE port priority	
	Support setting PoE power supply time period	
	Support intelligent power supply	
ACL	Support L2 (Layer 2) ~ L4 (Layer 4) packet filtering function	
	Support port mirroring, flow rate limiting, QoS remarking	
QoS	Supports 8 port queues	
	Support port priority, 802.1P priority, DSCP priority	
	Support SP, WRR, SP+WRR, WFQ priority scheduling algorithm	
Spanning tree	Support STP(IEEE 802.1d), RSTP(IEEE 802.1w)和MSTP(IEEE 802.1s)protocols	
	Support loop protection, root bridge protection, TC protection, BPDU protection, BPDU filtering	
	Support optical port 50ms changing over	



Software Specifications		
Multicast	Support IGMP v1/v2/v3 Snooping	
	Support MLD v1/v2 Snooping	
	Fast leave mechanism and querier supporting Layer 2 multicast	
	Support Layer 2 IPv4 static multicast	
	Support Layer 2 IPv6 static multicast	
Storm suppression	Support multicast suppression Support broadcast suppression Support unknown unicast suppression	
Link aggregation	Support static aggregation	
	Support dynamic aggregation	
	Support based on IP, MAC, mixed load balancing mode	
	A maximum of 32 aggregation groups are supported	
IPv6	Support IPv6 Ping、IPv6 Tracert、IPv6 Telnet	
	Support IPv6 SSH 、IPv6 SSL	
Management and maintenance	Support WEB network management (HTTP、HTTPS、SSL V3)	
	Support CLI (Telnet、SSH V1/V2、Local Console)	
	Support SNMP V1/V2/V3	
	Support RMON V1/V2	
	Support LLDP device discovery	
	Support NTP time synchronization	
	Support DNS Client	
	Support CPU monitoring, memory monitoring	
	Support system log, graded warning	
	Support Ping, Tracert detection, cable detection	
	Support Apollo cloud platform one-stop management and maintenance	



Networking Application

