

**HORED** 丰润达®

**24 Port 100Mbps Layer2  
Managed PoE Switch  
PS3024S**

**Product brochure**

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## Product introduction

PS3024S 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 the needs of users. 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.
- Support ACL, support L2 (Layer 2) ~ 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 multi-terminal 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.
- Support 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 management (HTTP, HTTPS, SSL V3), which is simpler and more efficient, and is convenient for users to install and debug.
- Support 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 Fengrunnda 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	
<b>Network Interface</b>	<ul style="list-style-type: none"> <li>● 24 10/100Mbps RJ45 Port</li> <li>● 2 10/100/1000Mbps RJ45 Port</li> <li>● 2 Gigabit SFP Port ( Combo )</li> <li>● 1 Console Port</li> </ul>
<b>Network protocol standard</b>	<ul style="list-style-type: none"> <li>● IEEE802.3、IEEE802.3i、IEEE802.3u、IEEE802.3ab、IEEE802.3z、IEEE802.3ad、IEEE802.3x、IEEE802.3af/at、IEEE802.1p、IEEE802.1q、IEEE802.1w、IEEE802.1d、IEEE802.1s</li> </ul>
<b>Performance Specifications</b>	<ul style="list-style-type: none"> <li>● Backplane bandwidth : 8.8Gbps</li> <li>● Packet forwarding rate : 6.55Mpps</li> <li>● MAC address table : 8K</li> <li>● Forwarding Mode: Store and Forward</li> </ul>
<b>LED indicator</b>	<ul style="list-style-type: none"> <li>● 26 Link/Act indicators</li> <li>● 24 PoE indicators</li> <li>● 1 SYS system indicator</li> <li>● 1 Power indicator</li> </ul>
<b>PoE Pin</b>	<ul style="list-style-type: none"> <li>● 1/2 ( + ) , 3/6 ( - )</li> </ul>
<b>Power support</b>	<ul style="list-style-type: none"> <li>● Input power : AC 100-240V/50-60Hz</li> <li>● Single port maximum output power : 30W</li> <li>● Total power : 250W</li> </ul>
<b>Physical Specifications</b>	<ul style="list-style-type: none"> <li>● Dimensions (LxWxH) : 440mm×180mm×44mm</li> </ul>
<b>Environmental Specifications</b>	<ul style="list-style-type: none"> <li>● Working temperature : 0°C~40°C</li> <li>● Storage temperature : -40°C~70°C</li> <li>● Working humidity: 10%~90% RH non-condensing</li> <li>● Storage humidity: 5%~90% RH non-condensing</li> </ul>
<b>Safety regulations</b>	<ul style="list-style-type: none"> <li>● CE/ROHS/FCC</li> </ul>

<b>Software Specifications</b>	
<b>VLAN</b>	Support 4K VLAN Support 802.1Q VLAN、MAC VLAN ,IP VLAN
<b>DHCP</b>	Support DHCP Snooping
<b>MAC address table</b>	Follow IEEE 802.1d standard Support MAC address automatic learning and aging Support static, dynamic, filtering address table
<b>Safety features</b>	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
<b>PoE Management</b>	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
<b>Access control (ACL)</b>	Support L2 (Layer 2) ~ L4 (Layer 4) packet filtering function Support port mirroring, flow rate limiting, QoS remarking
<b>Quality of service (QoS)</b>	Supports 8 port queues Support port priority, 802.1P priority, DSCP priority Support SP, WRR, SP+WRR, WFQ priority scheduling algorithm
<b>Spanning tree</b>	Support STP (IEEE 802.1d), RSTP (IEEE 802.1w) and MSTP (IEEE 802.1s) protocols Support loop protection, root bridge protection, TC protection, BPDU protection, BPDU filtering Support optical port 50ms switching

<b>Software Specifications</b>	
<b>Multicast</b>	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
<b>Storm suppression</b>	Support multicast suppression Support broadcast suppression Support unknown unicast suppression
<b>Link aggregation</b>	Support static aggregation Support dynamic aggregation Support based on IP, MAC, mixed load balancing mode A maximum of 32 aggregation groups are supported
<b>IPv6</b>	Support IPv6 Ping、IPv6 Tracert、IPv6 Telnet Support IPv6 SSH 、IPv6 SSL
<b>Management and maintenance</b>	Support WEB management ( HTTP、HTTPS、SSL V3 ) Support CLI ( Telnet、SSH V1/V2、Local serial port ) 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

