

24-Port 2.5G L3 Managed Ethernet PoE Switch PS3024XGPSH

Product Brochure

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Product Introduction:

PS3024XGPSH is a three-layer managed POE switch designed specifically for security transmission and WIFI coverage. The maximum power of a single port meets the 90W BT standard and can meet the POE power supply needs of various types of devices such as WIFI AP&bridge, IP camera, IP phone, etc. The product adopts a new generation of high-performance hardware and software platforms, providing flexible and cost-effective 2.5G access and 10 Gigabit uplink ports. It supports three-layer routing protocols, complete security protection mechanisms, comprehensive ACL/QoS policies, and rich VLAN functions, making it easy to manage and maintain, meeting users' networking needs for easy management, high security, and high-density network equipment. It is an ideal choice for various commercial network applications.





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.

Advanced hardware architecture design, powerful processing capability

 Realtek high-performance switching chips are used to meet the application requirements of various complex scenarios, greatly improve the network data processing rate, and prevent data transmission from being stuck.

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.
- Support RIP dynamic routing protocol, solve the routing problem after the small and medium-sized network is divided into subnets, and simplify the network configuration.
- Support static routing protocol, and manually configure routing entries to realize communication between different network segments.
- Support ARP configuration, so that hosts in different physical networks on the same network segment can communicate normally.



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.

Perfect POE power supply function

- Support the 802.3af/at/bt standard, with a maximum single port support of 90W output and a built-in power supply, meeting the requirements of POE scenarios such as security monitoring, wireless coverage, and IP phone.
- Support PoE power limit and set PoE port priority. When the power exceeds the limit, priority is given to ensuring power supply to the high priority ports.
- Support the setting of PoE power supply time periods, and users can control the time period of POE power supply according to their own needs.
- Support PoE chip status viewing, allowing users to view real-time parameters such as PoE chip temperature and output power through a 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:		
	• 8*1000M/2.5G RJ45 ports (POE)	
	• 16*10/100/1000Mbps RJ45 ports (POE)	
Networking Interface	• 2*10G electric ports	
_	• 2*10G SFP+ ports	
	• 1*Console port	
Network Protocol	• 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,IEEE 802.3bt	
	Bandwith: 152Gbps	
	Packet forwarding rate: 113.1Mpps	
Performance	MAC table size: 16K	
	Port buffer: 12Mb	
	Forwarding type: Storage and forwarding	
	• 28*Link/Act indicator	
LED Indicator	• 24*PoE indicator	
LLD IIIdiddoi	1*Power indicator	
	• 1*SYS indicator	
POE Pin	• 1/2 (+) , 3/6 (-)	
	• Power input: AC 100-240V/50-60Hz	
Power Supplier	• Single port MAX. power: 1-16 ports 30W,17-24 ports 90W	
	● PoE budget: 360W	
Dimension	• W*D*H: 440mm×320mm×44mm	
	Operating temperature: 0°C~40°C	
Environment	Storage temperature: -40°C∽70°C	
Liviioiiiiciit	• Operating humidity: 10%~ 90% RH non condensing	
	• Storatge humidity: 5%~90% RH non condensing	
Safte Regulation	CE/ROHS/FCC	



Software Spe	ecifications:
Protocol Standards	IEEE 802.3:Ethernet media access control (MAC)
	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 (optical fiber)
	IEEE 802.3ad:Standard method of link aggregation
	IEEE 802.3x:Flow control
	IEEE 802.1p:LAN layer 2 qos/cos protocol related to traffic priority (multicast filtering function)
	IEEE 802.1q:VLAN Bridge operation
	IEEE 802.1d:STP Spanning tree
	IEEE 802.1s:MSTP Spanning tree
	IEEE 802.1w:RSTP Spanning tree
	IEEE 802.3af/at/bt
L3 Interface	Support L3 interface
	Support IPV4,IPV6 addresses configuration
	Support ARP configuration
	Support ND configuration
L3 Routing	Support IPV4 static routing
	Support IPV4 RIP v1/v2
	Support IPV4 OSPFv2
	Support IPV6 static routing
	Support IPV6 RIPng
	Support IPV6 OSPFv3



Software Spe	ecifications:
VLAN	Support 4K VLAN
	Support 802.1Q VLAN,MAC VLAN ,IP VLAN, Voice VLAN
DHCP	Support DHCP server
	Support DHCP relay
	Support DHCP Snooping
MAC Table	Support IEEE 802.1d standard
	Support MAC addresses automatic learning and aging
	Support static, dynamic and filtered address tables
	Password guard
	Support restricting user access based on port number, IP address and MAC address
	Support HTTPS,SSL V3,TLS V1,SSH V1/V2
Security	Support IP-MAC-PORT ternary binding
Features	Support ARP protection, IP source protection, DOS protection
	Support DHCP Snooping,DHCP Attack protection
	Support 802.1X certification,AAA
	Support Port security, port isolation
	Support CPU Protection function
	Support PoE power limit
	Support PoE chip status check
POE	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 speed restriction, QoS re marking
QoS	Support 8 port queues
	Support port priority, 802.1p priority, DSCP priority
	Support SP,WRR,SP+WRR,WFQ priority scheduling
STP	Support STP(IEEE 802.1d), RSTP(IEEE 802.1w) and MSTP(IEEE 802.1s) standard
	Support Loop protection, root bridge protection, TC protection, BPDU protection, BPDU filtering
	Support optical port 50ms switching



Software Spe	cifications:
Multicast	Support IGMP v1/v2/v3 Snooping
	Support MLD v1/v2 Snooping
	Support Fast leave mechanism and querier of layer 2 multicast
	Support Layer 2 IPv4 static multicast
	Support Layer 2 IPv6 static multicast
	Support IGMP v1/v2/v3 layer 3 multicast
Storm Suppression	Support Multicast suppression
	Support Broadcast suppression
	Support Unknown unicast suppression
	Support Static convergence
LACP	Support Dynamic convergence
	Support based on IP, MAC and mixed load balancing mode
	Support 32 aggregation groups at most
IPv6	Support IPv6 Ping,IPv6 Tracert,IPv6 Telnet
	Support IPv6 SSH,IPv6 SSL
Network management	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, classification warning
	Support Ping,Tracert Detection, cable detection
	Support Apollo cloud platform one-stop management and maintenance



Networking application:

