

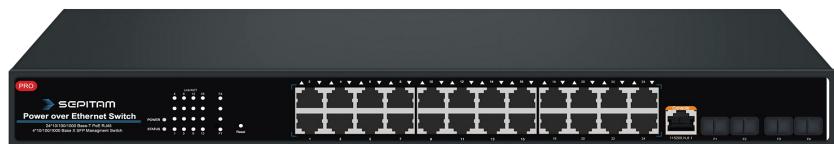


SEPITAM
ONE STEP SMARTER

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SEPITAM
PS424G-QXM-L3



TYPE:

Sepitam-PS424G-QXM-L3

Sepitam enterprise-grade switches are available in managed, unmanaged, PoE, and non-PoE models. The advanced PoE technology simplifies powering various network devices, and high-capacity switches enhance network scalability. With robust management features, these switches enable Layer 2 protocol configurations, delivering superior network efficiency and security.



- ▶ TYPE: Sepitam-PS424G-QXM-L3
- ▶ Technical Specification of Sepitam-PS424G-QXM-L3
- ▶ 24*10/100/1000Base-T PoE Ports & 4*10GBase-SR/LR Ports Enterprise PoE Switch

▶ **Description:**

The Sepitam-PS424G-QXM-L3 is a 10Gbps layer-3 Managed PoE Switch independently produced by Sepitam. It provides 24*10/100/1000Mbps RJ45 ports, 4*10Gbps SFP+ optical module expansion slots, and one Console port. All RJ45 ports from 1-24 support PoE power supply with each port up to 30W, and also static routing function. It provides fully thoughtful security strategies, complete QoS policies, and abundant VLAN functions, while is quite easy enough to be managed and maintained, perfectly meeting the network building up and accessing requirements from enterprises, communities, hotels, office networks, and campus networks.

▶ **Properties:**

- Support up to 8 phy. Stacking
- Support IEEE 802.3at standard, compatible with IEEE 802.3af electrical power devices (PD);
- Single port output power up to 30W;
- Automatic detection and identification of standard PoE power receiving devices, with intelligent power supply system which will not burn down non-standard PoE power receiving devices or common devices;
- Port power supply priority is supported to ensure continuous power supply for key nodes on the network;
- Automatic detection power supply device;
- RJ45 supports automatic port flip (Auto MDI/MDIX);
- Monitor the working status through panel lamps to assist in fault analysis;
- IEEE 802.3x full-duplex flow control and Backpressure half-duplex flow control;



- Excellent and affirmed security system;
- Layer-3 routing protocol control, adaptable to multiple services, efficient and secure information transmission;
- Support static convergence and dynamic convergence (LACP) 2 convergence modes, effectively increase the link bandwidth, improve the reliability of the link, and at the same time can achieve load balancing, link backup;
- Flexible and convenient to manage and maintain, and supports various management modes, such as Console, Telnet, and SSH;
- Support WEB management, being much more simple, efficient, and convenient for installation and debugging,
- Support file upload and download management through TFTP.

► Specifications:

Model	Sepitam-PS424G-QXM-L3
Standard	IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3z, IEEE802.3x, IEEE802.1X, IEEE802.1q, IEEE802.1p, IEEE802.1d, IEEE802.1w, IEEE802.3ad, IEEE802.3af, IEEE802.3at
Interface	24*100/1000Mbps RJ45 Ports 4*1000M/10Gbps SFP+ Fiber-optic module 1 Console Port
Indicator	PWR(Green), LNK/ACT(Green/Yellow), SYS(Green), PoE(Yellow)
Network Media	10BASE-T: Cat 3, 4, 5 unshielded twisted pair cables(\leq 100m) 100BASE-TX: Cat 5 and over, unshielded twisted pair cable(\leq 100m) 100BASE-TX: Cat 5 and over, unshielded twisted pair cable(\leq 100m) 100BASE-FX: MMF, SMF 10000BASE-X: MMF, SMF 10GBASE-SR: OM1/OM2/OM3 or above MMF (2m~300m) 10GBASE-LR: IEC's B1.1 and B1.3 SMF (2m~10000m)
MAC Address Table	16K, Auto-learning, Auto-aging
Jumbo Frame	12KBytes



Model	Sepitam-PS424G-QXM-L3	
Packet Buffer	12Mbit	
Transfer Mode	Store-and-forward	
Packet Forwarding Rate	95.23Mpps	
Switching Capacity	128Gbps	
Dimensions (L*W*H)	440*207*44mm	
PoE Port	Port 1~24	
PoE Power On RJ45	Mode A 1/2(-), 3/6(+)	
PoE Power Output	30W(MAX)	
PoE Power Budget	370W	250W
Power Supply	400W	280W
Input Power Supply	AC 100-240V, 50/60Hz	
Fan	2 pcs	
Working Temperature	0°C ~ 40°C	
Storage Temperature	-40 °C ~ 70 °C	
Working Humidity	10% ~ 90% non-condensing	
Storage Humidity	5% ~ 90% non-condensing	
Surge Protection	Differential mode ±2KV , Common mode ±4KV	
MTBF	>100000 hour	
Electrostatic Standard	Contact ±6KV, Air ±8KV	
Green Energy Saving	IEEE 802.3az	



Model	Sepitam-PS424G-QXM-L3	
L3 Features	DHCP Server	DHCP Server
		DHCPv6 Server
	Route	Static Route(IPV4/IPV6) Route Aggregation
	RIP	RIP v1/v2
	OSPF	OSPF v2
	BGP	BGP4
L2 Features	MAC Address Table	MAC Aging Time
		MAC Filter
		MAC Notification
	Basic Management	Console/Telnet/SSH
		Http/Https, SSL/TLS
		FTP/TFTP
		Syslog
		SNMP(v1/v2c/v3),SNMP Trap
		SNTP/NTP
		CPU protect
		Software/Hardware watchdog
		Firmware Upgrade/Backup
		Ping/Traceroute



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	Bandwidth Control
	Flow Control
	EEE
	MTU
	CFM(802.1ag)
Port Config	EFM OAM(802.3ah)
	DDM
	Storm Control
	Port Isolation
L2 Features	Port Security
	Virtual Cable Test
	ULDP/Cisco UDLD
Discovery	LLDP(802.1ab)
	LLDP-MED
	Static
Link Aggregation	LACP(802.3ad)
	Load Balance (src-mac/dst-mac/src-ip/dst-ip)
	Max groups and ports per group
VLAN	VLAN (802.1Q 4K)
	Access/Trunk/Hybrid



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VLAN	Private VLAN	
	VLAN Filter	
	MAC-based VLAN	
	Protocol-based VLAN	
	IP Subnet-based VLAN	
	Voice VLAN	
	GVRP/GMRP	
	QinQ/Selective-QinQ/Flexible QinQ	
	VLAN Translation/N:1 VLAN Translation	
	Guest VLAN	
L2 Features	Loopback Detection	
	ERPS	
	STP/RSTP/MSTP	
	MSTP Support 64 instance	
	BPDU Guard/Root Guard/BPDU Tunnel	
	Static ARP	
	ARP Scanning Prevention	
	ARP Spoofing Prevention	
	ARP Guard	
	Gratuitous ARP	
ARP	Dynamic ARP Inspection	
	ARP Quantity Control	



Model	Sepitam-PS424G-QXM-L3		
IPv4 Related Function	ICMP	Anti ICMP Attack	
		ICMP Rate Limit	
		ICMP Unreachable Drop	
	IGMP	Control Multicast	DCSCM
		Multicast VLAN	Multicast VLAN
		IGMP SNOOPING V1/V2/V3	
		Fast Leave	
	DHCP	IGMP Proxy	
		DHCP Client/BOOTP	
		DHCP Relay	
		DHCP Snooping	
IPv6 Related Function	DHCPv6	DHCP Option 82/43/60/61/67	
		IPv6 Basic	IPv6 ND Snooping
		DHCPv6	DHCPv6 Relay
		DHCPv6 Snooping	
		IPv6 SAVI	
	IPv6 Features	Security RA	
		IPv6 Unicast Routing	Static Route
		IPv6 Multicast Routing	MLD v1/V2 Snooping
		IPv6 Features	SNMP over IPv6 Support
			HTTP over IPv6 Support
			SSH over IPv6 Support



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IPv6 Related Function	IPv6 Features	DNS over IPv6 Support
		IPv6 ping/traceroute Support
		IPv6 Telnet Support
		IPv6 Radius+ Support
		IPv6 Tacacs+ Support
		IPv6 SNTP/NTP Support
		IPv6 FTP/TFTP Support
		IPv6 IPSec Support
		IPv6 ACL
QoS (Quality Of Service)	Basic	Trust COS/DSCP
		Trust Port
	Scheduling	SP
		WRR
		WDRR
	Policy Map Stream	Based on VLAN
		Based on COS/DSCP
		Aggregate Policy Map
		Ingress Policy Map
		CAR Stream Shaping (leak algorithm)
	Policing	Ingress Policing
		COS/802.1p Priority
	Rewrite	IP Precedence



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	IPv4 DSCP/IPv6 DSCP
	drop-precedence
	internal-priority
	Ingress/Egress Rewrite
QoS (Quality Of Service)	DSCP to DSCP mapping
	DSCP to DP mapping
	DSCP to Queue mapping
	COS to DP mapping
	COS to Queue mapping
	SIP/DIP
	IP Protocol
	IP Priority (DSCP,TOS, Precedence)
	TCP,UDP src, dst Port
ACL	SRC/DST MAC
	VLAN
	COS
	Tag/Untag
	MAC-ACL and IP-ACL
	Base on user defined profile
	Based on time period ACL
	ACL on VLAN
	Based on ACL Stream
IP-ACL	
MAC-ACL	
IP-MAC ACL	
User-defined ACL	
ACL Features	

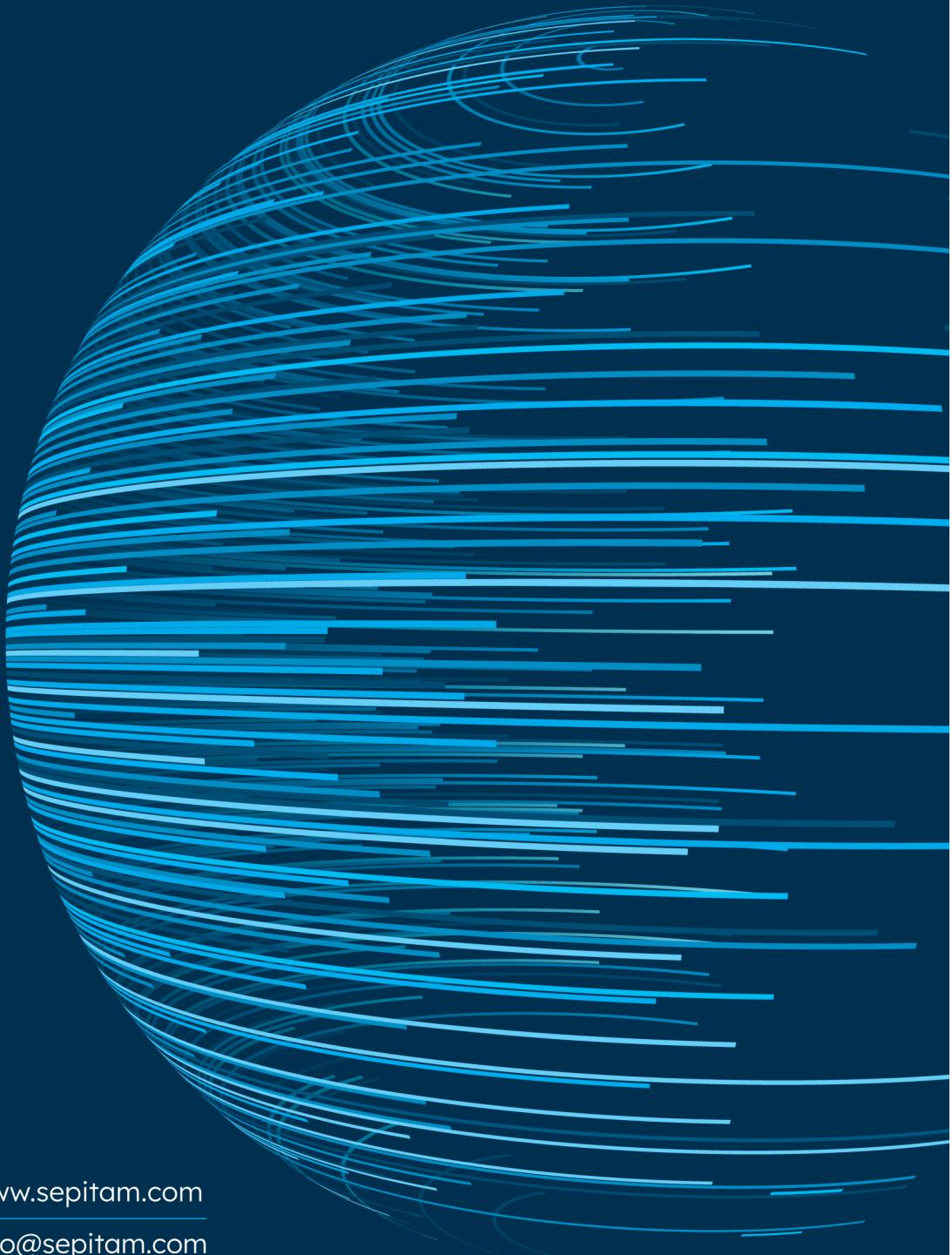


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Security	802.1x	Port Based Authentication	
		Support EAPoR	
		MAC based Authentication	
		Guest VLAN	
		Based on Port Authentication	
	MAB	Based on MAC Authentication	
		Based on Port	
		Based on VLAN	
	MAC Address Count Limit	Based on Port	
		Based on VLAN	
	IP Address Count Limit	Based on Port	
		Based on VLAN	
	Deny DoS Attack	Based on source mac and IP address	
		TCP Flag	
		TCP Fragment	
		IP Segment	
		ICMP	
	TACACS+	Standard Support	
		Standard Support	
	Radius	Client, Support MD5	
		OpenSSL 1.1.0	
Redundancy Related Function	MRPP	Compatiable EERP	
		Uplink Protection Protocol	
	ULPP	Smart Link/Monitor Link	
		Uplink State Monitor	



Model	Sepitam-PS424G-QXM-L3		
Flow Monitor Function	Mirror	Support one to one, multi to one	
		Port based mirror, support ingress, egress, and both	
		CPU based mirror	
		Flow based mirror	
PoE	PoE Management	RSPAN	
		ON/OFF Config	
		Alive Checking for PD	
		7/24 On/Off Scheduling	

Technical Specification of Sepitam-PS424G-QXM-L3



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