

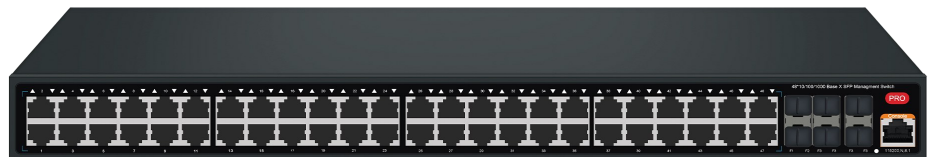


SEPITAM

ONE STEP SMARTER

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SEGITAM
PS648G-HXM-L3



TYPE:

Sepitam-PS648G-HXM-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-PS648G-HXM-L3
- ▶ Technical Specification of Sepitam-PS648G-HXM-L3
- ▶ 48*10/100/100/1000Base-T PoE Ports & 6*10GBase-SR/LR Ports Enterprise PoE Switch

▶ Description:

The Sepitam-PS648G-HXM-L3 is a 10Gbps layer-3 Managed PoE Switch independently produced by Sepitam. It provides 48*10/100/1000Mbps RJ45 ports, 6*10Gbps SFP+ optical module expansion slots, and one Console port. All RJ45 ports from 1-48 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;
- 3-layer 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-PS648G-HXM-L3
Standard	IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3z, IEEE802.3x, IEEE802.1x, IEEE802.1q, IEEE802.1p, IEEE802.1d, IEEE802.1w, IEEE802.3ad, IEEE802.3bz, IEEE802.3ae, IEEE802.3af, IEEE802.3at
Interface	48*100/100/1000Mbps RJ45 Ports 6*1000M/10Gbps SFP+ Fiber-optic module expansion Slots 1 Console Port
Indicator	PWR, LNK/ACT, SYS, PoE
Network Media	10BASE-T: Cat 3, 4, 5 unshielded twisted pair cables(≤100m) 100BASE-TX: Cat 5 and over, unshielded twisted pair cable(≤100m) 100BASE-TX: Cat 5 and over, unshielded twisted pair cable(≤100m) 100BASE-FX: MMF, SMF 1000BASE-X: MMF, SMF
MAC Address Table	32K, Auto-learning, Auto-update
Jumbo Frame	12KBytes



Model	Sepitam-PS648G-HXM-L3				
Packet Buffer	16Mbit				
Transfer Mode	Store-and-forward				
Packet Forwarding Rate	160.71Mpps				
Switching Capacity	216Gbps				
Dimensions (L*W*H)	440*330*44mm				
PoE Port	Port 1~48				
PoE Power On RJ45	Mode A 1/2(+), 3/6(-)				
PoE Power Output	30W(MAX)				
PoE Power Budget	500W/110VAC	600W/220VAC	370W	700W/110VAC	880W/220VAC
Power Supply	850W		438W	1000W	
Input Power Supply	AC: 100~240V AC,50/60Hz, 11.5A Max		AC: 100~240V,50/60Hz,8A Max	AC: 100~240V, 50/60Hz, 13A Max	
Fan	5 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	Common mode ±4KV, Differential mode ±2KV				
MTBF	>100000 hour				
Electrostatic Standard	Contact ±6KV, Air ±8KV				



Model	Sepitam-PS648G-HXM-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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L2 Features	Port Config	Bandwidth Control
		Flow Control
		EEE
		MTU
		CFM(802.1ag)
		EFM OAM(802.3ah)
		DDM
		Storm Control
		Port Isolation
		Port Security
		Virtual Cable Test
	ULDP/Cisco UDLD	
	Discovery	LLDP(802.1ab)
		LLDP-MED
	Link Aggregation	Static
		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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L2 Features	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
	Network Loop Detection	Loopback Detection
	Spanning Tree	ERPS
		STP/RSTP/MSTP
		MSTP Support 64 instance
	ARP	BPDU Guard/Root Guard/BPDU Tunnel
		Static ARP
		ARP Scanning Prevention
		ARP Spoofing Prevention
		ARP Guard
		Gratuitous ARP
		Dynamic ARP Inspection
ARP Quantity Control		



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IPv4 Related Function	ICMP	Anti ICMP Attack
		ICMP Rate Limit
		ICMP Unreachable Drop
	Control Multicast	DCSCM
	Multicast VALN	Multicast VALN
	IGMP	IGMP SNOOPING V1/V2/V3
		Fast Leave
		IGMP Proxy
	DHCP	DHCP Client/BOOTP
		DHCP Relay
DHCP Snooping		
DHCP Option 82/43/60/61/67		
IPv6 Related Function	IPv6 Basic	IPv6 ND Snooping
	DHCPv6	DHCPv6 Relay
		DHCPv6 Snooping
		IPv6 SAVI
		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
	Policing	CAR Stream Shaping (leak algorithm)
		Ingress Policing
	Rewrite	COS/802.1p Priority
		IP Precedence



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

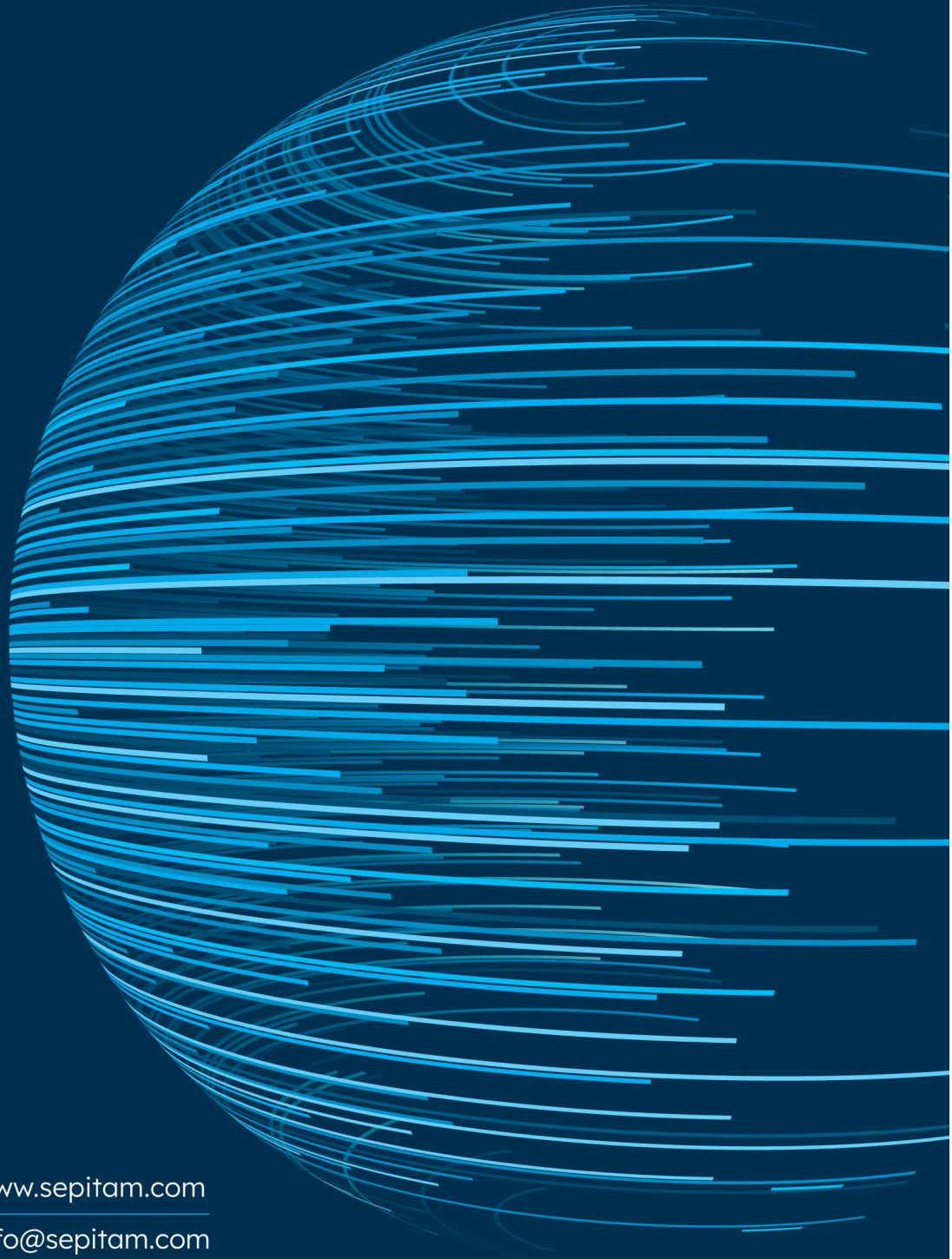


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Security	802.1x	Port Based Authentication
		Support EAPoR
		MAC based Authentication
		Guest VLAN
	MAB	Based on Port Authentication
		Based on MAC Authentication
	MAC Address Count Limit	Based on Port
		Based on VLAN
	IP Address Count Limit	Based on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



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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
		RSPAN
PoE	PoE Management	ON/OFF Config
		Alive Checking for PD
		7/24 On/Off Scheduling

Technical Specification of Sepitam-PS648G-HXM-L3



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