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SEPITAM PS412G-QXM





TYPE:

Sepitam-PS412G-QXM

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-PS412G-QXM
- ▶ Technical Specification of Sepitam-PS412G-QXM
- ▶ 12* 10/100/1000Base-T port switch with 8*POE port & 4*10G fiber SFP port

Description:

Sepitam-PS412G-QXM is a Layer 2+ managed Gigabit PoE Switch that features intelligent PoE functions to improve the availability of critical business applications. It provides IPv6/IPv4 management and built-in L2+ Gigabit Switching engine along with 8*10/100/1000BASE-T ports featuring 30-watt 802.3at PoE+ and 4 additional Gigabit Ethernet ports and 4*10G SFP+ fiber slots. With a total power budget up to 150W for different kinds of PoE applications, can provides quick, safe and cost-effective Power over Ethernet network solutions to security IP surveillance for small businesses and enterprises.

The Sepitam-PS412G-QXM is programmed for advanced switch management functions such as 802.1Q VLAN and Q-in-Q VLAN, Multiple Spanning Tree protocol (MSTP), loop and BPDU guard, IGMP snooping, and MLD snooping. Also, the Link Layer Discovery Protocol (LLDP) is the Layer 2 protocol included to help discover basic information about neighboring devices on the local broadcast domain.



Properties:

- Support L2+ Switching features including 802.1Q VLAN, Mirroring, Port isolation, IGMP Snooping, DHCP Snooping, LLDP, POE+ management, IP Source Guard, ARP inspection, ACLs etc.
- Support spanning tree STP(802.1D) and RSTP(802.1W) and MSTP(802.1s).
- Support enhanced management through WEB, CLI, TELNET, SSH, SNMP.
- Support cable diagnosis and SFP DDM.
- Support PoE management, like PoE schedule, PoE PD-alive.
- Support G.8032 quick ring protocol. Self-recovery time <20ms.
- Support IEEE1588 v2, transparent clock(TC)
- Support DDM, SFP digital diagnostics monitoring

Specifications:

Model	Sepitam-PS412G-QXM
Ethernet Ports	12-10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports
Fiber Ports	4*1G/10GBASE-X SFP interfaces, supports 1G/10Gbps dual mode
PoE Ports	8*802.3af/802.3at PoE Ports
Switch Architecture	Store-and-Forward
Switch Fabric	104 Gbps/non-blocking
Throughput	77.38Mpps @64 bytes
Address Table	32K entries



Model	Sepitam-PS412G-QXM
Share Data Buffer	32 Mb
Jumbo Frame	9600 Bytes
SDRAM	2Gb
Flash Memory	128Mb
Flow Control	IEEE 802.3x pause frame for full-duplex Back pressure for half-duplex
Reset Button	>2 sec.: Factory default and reset
Power Supply	100~240V AC, 50/60Hz, 4A (max.)
Power Consumption	Max.150 watts/1122 BTU
PoE Standards	IEEE 802.3af Power over Ethernet/PSE IEEE 802.3at Power over Ethernet Plus/PSE
PoE Power Supply Type	Per Port 52V DC, 300mA. Max. 15.4 watts (IEEE 802.3af) Per Port 52V DC, 600mA. Max. 30 watts (IEEE 802.3at)
LED Indicators	Power: Green Solid on- power work normal, off- power disconnected System: Green Blink -work normally, solid on- soft work abnormal, fast Blink - soft upgrade PoE: Yellow Solid on- PoE work normally, Off- PoE doesn't work, Blink - PoE overload10/100/1000T RJ45 Interfaces Port 1 to Port 12:1000 LNK/ACT (Green) Blink - port connected with data transmission; Solid on- port connected without data transmission 1G/10G SFP Interfaces (Port 13 to Port 16): Blue Blink- port connected with data transmission; Solid on- port connected without data transmission



Model	Sepitam-PS412G-QXM
EMC	Surge Immunity: 4KV Per: IEC61000-4-5 ESD Protection: ESD Level 4 Per: IEC61000-4-2 EFT Level 4 Per: IEC61000-4-4
Dimension	280x213x44.5mm
Weight	2.5kg
Working Temperature	-10 ℃to 45℃
Storage Temperature	-20℃ to 70 ℃
MTBF	50,000hrs

Layer 2 functions:

Model	Sepitam-PS412G-QXM
	Auto-negotiation
	Flow Control
Port configuration	Port Mirror: TX/RX/BOTH; Many-to-1 monitor
	CPU Mirror
	Traffic statistics
	Static link aggregation
Link Aggregation	LACP(Dynamic Trunk/Static Trunk)
Link Aggregation	Algorith based on Source/Destination MAC
	Algorithm based on Source/Destination IP
	Aging Time
MAC Table	Static MAC address
	Dynamic MAC address management



Model	Sepitam-PS412G-QXM
MAC Table	Aging Time
	Static MAC address
	Dynamic MAC address management
	4094 Active VLANs
	4094 VID
	802.1Q Tag VLAN
	Port VLAN
VLAN	Protocol VLAN
VLAN	MAC VLAN
	Voice VLAN
	802.1ad Q-in-Q tunneling
	Private VLAN (Protected port)
	GARP/GVRP
	512ACLs
	L2, L3 e L4
	Time-based ACL
A C.	IP ACL
ACL	MAC ACL
	MAC-IP ACL
	User-Defined ACL
	ICMPv6
	802.1D Spanning Tree Protocol (STP)
	802.1w Rapid Spanning Tree Protocol (RSTP)
	802.1s Multiple Spanning Tree Protocol (MSTP)
Cu amarin ar tura	Loop Guard
Spanning tree	Root Guard
	TC-BPDU Guard
	BPDU Guard
	BPDU Filter
	<20ms G.8032 ERPS Ring
Ring Protection	Fast Ring



Model	Sepitam-PS412G-QXM
Multicast	1024 groups IGMP v1/v2/v3 Snooping, Fast Leave MLD Snooping Multicast VLAN IGMP filter MVR Multicast Routing
QOS	8 mapping IDs to 8 level priority queues CoS port-based CoS 802.1p-based CoS DSCP-based Scheduling algorithms SP, WRR, SP+WRR Storm Control (Broadcast, Multicast, Unknown Unicast) Bandwidth control per port SWRR, DWRR for Scheduling Flow Redirect Precedence TOS Rate Limiting (Ingress/Egress) Stri Priority
Security Features	Port Security MAC address filter ARP Association (Manual, ARP scanning, DHCP snooping) ARP Protection AAA DAI DoS (Denial of Service) Classification of packages based on: End.MAC, IP End, TCP / UDP Ports, Protocol Type; 802.1x Authentication (port-based e MAC-based) TACACS/TACACS+ Authentication RADIUS Authentication DHCP Filter



Model	Sepitam-PS412G-QXM
	Guest VLAN
	SSLv2/SSLv3/TLSv1
	SSHv1/SSHv2
Security Features	Restriction of WEB access based on: IP Address, And. MAC and Port;
	Port Isolation
	Loopback detection
	SNMP v1/v2c/v3 with Full Private MIBs
	RMON 4 groups
	WEB (HTTP/HTTPS)
	CLI (Telnet, Console, SSHv1/v2)
	Firmware upgrade via console/web/TFTP
	Configuration Backup/Reload
Managamant	Dual Firmware
Management	LLDP
	Configuration Export/Import
	CDP Aware
	OAM (IEEE802.3ah)
	CFM (IEEE802.1ag)
	sFlow
	Telnet client
Synchronization, IEEE1588	Support IEEE1588v2 transparent clock
	DNS Client
	DHCP Relay
	DHCP Client
	DHCP Snooping
Other Features	DHCP Option 66
Other Features	DHCP Option 67
	DHCP Option 82
	NTP/SNTP Client
	UPNP
	UDLD



Model	Sepitam-PS412G-QXM
PoE management	Total PoE power budget control Per port PoE function enable/disable PoE admin-mode control PoE port power feeding priority Per PoE port power limitation PD classification detection PD alive check
Maintenance	Cable Diagnostics Ping SFP DDM (Digital Diagnostics Monitoring) Thermal protection System log (Local and Remote) Memory and CPU Monitoring

Layer 3 functions:

Model	Sepitam-PS412G-QXM
Static Routing	IPv4 Unicast: Static Routing(Software Base) IPv6 Unicast: Static Routing(Software Base)
	IPv6 neighbor discovery (ND)
	Path maximum transmission unit (MTU) discovery Internet Control Message Protocol (ICMP) version 6
	TCPv6/UDPv6
IPV6	Ping6
	Telnet(v6)
	Http/Https
	Interface IPV6
	ACL IPV6

Technical Specification of Sepitam-PS412G-QXM

