Technical Specification of Sepitam-PS422G-DCDFM

28-port Full Gigabit Managed PoE Switch

24*10/100/1000 Mbps Base-T PoE ports (Data/Power),

4*100/1000 Mbps Base-X uplink SFP slot ports (Data)

Overview :

Sepitam-PS422G-DCDFM 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 22 10/100/1000 Mbps BASE-T ports featuring 30-watt 802.3at PoE+, 2Gigabit TP/SFP Combo and 2 Gigabit SFP slots. With a total power budget up to 400W 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-PS422G-DCDFM 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.

Features :

- 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

- Support IPV4 and IPV6 static routing functions

- Support memory and CPU monitoring

- 4KV surge protection, 6KV contact/8KV air protection

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Technical Specifications:

Model	Sepitam-PS422G-DCDFM
Copper Ports	22-10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports
Combo Interfaces	2x 100/1000BASE-X SFP interface shared with port-23 and port-24; Supports 100/1000Mbps dual mode and DDM
Fiber Ports	2-100/1000BASE-X SFP interfaces, supports 100/1000Mbps dual mode
PoE Ports	1~24-802.3af/802.3at PoE Injector Ports
Console Ports	1 x RS-232-to-RJ45 serial port (115200, 8, N, 1)
Switch Architecture	Store-and-Forward
Switch Fabric	52Gbps/non-blocking
Throughput	38.69Mpps @64 bytes
Address Table	8K entries
Share Data Buffer	4 Mb
Jumbo Frame	9600 Bytes
SDRAM	1Gb
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. 400 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 overload 10/100/1000T RJ45 Interfaces (Port 1 to Port24): 1000 LNK/ACT (Green) Blink - port connected with data transmission; Solid on- port connected without data transmission 100/1000Mbps SFP Interfaces (Port 22 to Port 24): Green Blink - port connected with data transmission; Solid on- port connected without data transmission

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	440x290x44.5mm
Weight	4.5kg
Working Temperature	-10 °c to 45°c
Storage Temperature	-20°c to 70 °c
MTBF	50,000hrs

Layer 2 functions

Port configuration	Auto-negotiation Flow Control Port Mirror: TX/RX/BOTH; Many-to-1 monitor CPU Mirror Traffic statistics
Link Aggregation	Static link aggregation LACP（Dynamic Trunk/Static Trunk） Algorith based on Source/Destination MAC Algorithm based on Source/Destination IP
MAC Table	Aging Time Static MAC address Dynamic MAC address management
VLAN	4094Active VLANs 4094VID 802.1Q Tag VLAN Port VLAN Protocol VLAN MAC VLAN Voice VLAN 802.1ad Q-in-Q tunneling Private VLAN (Protected port) GARP/GVRP
ACL	256ACLs L2, L3 e L4 Time-based ACL IP ACL MAC ACL MAC-IP ACL User-Defined ACL ICMPv6
Spanning tree	802.1D Spanning Tree Protocol (STP) 802.1w Rapid Spanning Tree Protocol (RSTP) 802.1s Multiple Spanning Tree Protocol (MSTP) Loop Guard Root Guard TC-BPDU Guard BPDU Guard BPDU Filter
Ring Protection	20>ms G.8032 ERPS Ring Fast Ring

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Multicast	256groups IGMP v1/v2/v3 Snooping, Fast Leave MLD Snooping Multicast VLAN IGMP filter MVR Multicast Routing
QOS	8mapping 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 Guest VLAN SSLv2/SSLv3/TLSv1 SSHv1/SSHv2 Restriction of WEB access based on: IP Address, And. MAC and Port; Port Isolation Loopback detection

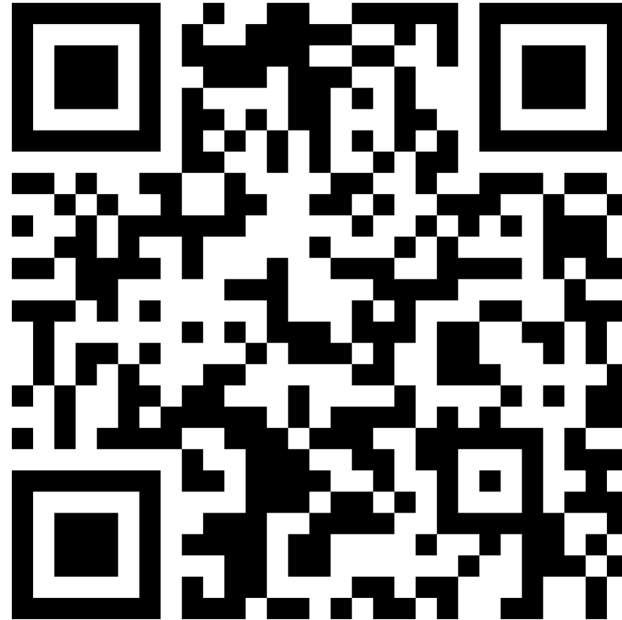|	
Management	SNMP v1/v2c/v3 with Full Private MIBs RMON 4 groups WEB (HTTP/HTTPS) CLI (Telnet, Console, SSHv1/v2) Firmware upgrade via console/web/TFTP Configuration Backup/Reload Dual Firmware LLDP Configuration Export/Import CDP Aware OAM (IEEE802.3ah) CFM (IEEE802.1ag) sFlow
Synchronization,	Support IEEE1588v2 transparent clock
IEEE1588	
Other Features	DNS Client DHCP Relay DHCP Client DHCP Snooping DHCP Option 66 DHCP Option 67 DHCP Option 82 NTP/SNTP Client UPNP UDLD
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 PoE schedule Soft-reboot PoE Non-stop
Maintenance	Cable Diagnostics Ping SFP DDM (Digital Diagnostics Monitoring) Thermal protection System log (Local and Remote) Memory and CPU Monitoring

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

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