Sepitam-PS208G-DFM-at

8*10/100/1000Base-T PoE+2*1000BaseX SFP for Uplink

Overview :

The Sepitam-PS208G-DFM-at series is a layer two plus managed PoE fiber switch. It has 8*10/100/1000Base-T RJ45 ports and 2*100/1000Base-X SFP fiber slot ports . Port 1-8 can support IEEE 802.3af/at standard PoE power supply. single port PoE power reaches 30W, and the maximum PoE output power is 130W(at-250W). As a PoE power supply device, it can automatically detect and recognize the power receiving equipment that meets the standard and supply power through the network cable. It can supply power to POE terminal equipment such as wireless AP, webcam, VoIP phone, building visual access control intercom, etc. through a network cable to meet the network environment that needs high-density PoE power supply. It is suitable for hotels, campuses, parks, shopping malls, scenic spots, hospitals,, factory dormitory and small and medium-sized enterprise.

The Sepitam-PS208G-DFM-at has the layer two plus full network management function, supports IPV4/IPV6 management, supports static route full line rate forwarding, supports complete security protection mechanism, complete ACL/QoS policy and rich VLAN functions, and is easy to manage and maintain. Supports multiple network redundancy protocols STP/RSTP/MSTP (<50ms) and (ITU-T G.8032) ERPS to improve link backup and network reliability. When one-way network fails, communication can be quickly restored to ensure important Uninterrupted communication for applications. According to the actual application requirements, you can configure multiple application services such as PoE power management, port traffic control, VLAN division, and SNMP through the Web network management mode.

Feature :

- **Gigabit access, gigabit SFP port uplink**

- All series supports "10/100/1000M RJ45 port + Gigabit SFP port " combination, which enables users to flexibly

- build networking to meet the needs of various scenarios.

- Support non-blocking wire speed forwarding

- Support full duplex based on IEEE802.3x and half duplex based on Backpressure

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- **Intelligent PoE power supply function**

- 8*10/100/1000Base-T RJ45 ports support PoE power supply to meet the needs of PoE power supply in security monitoring, teleconferencing systems, and wireless coverage.

- Conforms to the IEEE 802.3af/at PoE power supply standard, automatically recognizes PoE devices for power supply, without damaging non-POE devices. The maximum POE output power of the entire device reaches 130W(at-250W), and the maximum POE output power of a single port is 30 W.

- The PoE port supports the priority mechanism. When the remaining power is insufficient, the power supply of the high-priority port is preferentially guaranteed to prevent the device from being overloaded.

- Support the POE network management function, which can be configured through the network management system to implement power allocation, priority setting, port power status check, and time scheduling of PoE ports.

- **Strong business processing capability**

- Support IEEE 802.1Q VLAN, users can flexibly divide VLAN according to needs, and support Qin Q configuration.

- Support QoS, support port based, 802.1P based and DSCP based three priority modes and Equ, SP, WRR, SP+WRR four queue scheduling algorithms.

- ACL supports the filtering of data packets by configuring matching rules, processing operations and time permissions, and provides a flexible access control strategy.

- Support IGMP V1/V2 multicast protocol and support IGMP Snooping to meet the multi terminal HD video surveillance and video conference access requirements.

- Support ERPS industrial fast V-Ring and STP/RSTP/MSTP production tree protocol, eliminates two layers of loops, and realizes link backup.

- Support static convergence and dynamic convergence, effectively increases link bandwidth, achieves load balancing, link backup, and improves link reliability.

- **Complete safety protection mechanism**

  ♦ Support 802.1X authentication, provide authentication function for LAN computer, and control the authorized status of controlled port according to the result of authentication.

  ♦ Support port isolation

  ♦ Support port broadcast storm suppression

  ♦ Support port +MAC binding, IP+MAC+ port binding function

- **The equipment is stable and reliable**

  ♦ The host has low power consumption, no fan mute design, aluminum alloy metal shell, excellent heat dissipation, and ensure stable operation of products.

  ♦ The equipment meets the national CCC standard, fully meets the requirements of CE, FCC and RoHS safety regulations, and is safe and reliable.

  ♦ Self-developed power supply, high redundancy design, provides long-term stable PoE power

  ♦ The user can easily understand the working status of the device through the power indicator (PWR), port status indicator (Link) operation indicator.

- **Easy operation and maintenance management**

  ♦ Support various management and maintenance methods such as Web management, CLI command line (Console, Telnet), SNMP (V1/V2/V3).

  ♦ Support encryption methods such as HTTPS, SSLV3, and SSHV1/V2 for more secure management.

  ♦ Support RMON, system log, port traffic statistics, easy network optimization and transformation.

  ♦ Support LLDP, which is convenient for the network management system to query and judge the communication status of the link.

  ♦ Support CPU monitoring, memory monitoring, ping detection, cable length detection.

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Technical specification :

Model	PS208G-DFM-at	PS208G-DFM-at
Interface	8*10/100/1000Base-T POE ports (Data /Power); 2*100/1000Base-X SFP ports (Data) 1*Console RS232 port（115200,N,8,1）	
POE Port	Port 1 - 8 support PoE @ IEEE802.3af/at	
Network Protocol	IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3u 100Base-TX; IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-X IEEE802.3x	
PoE Standard	IEEE802.3af/at	
Ethernet Port Feature	10/100/1000Base-T,Auto-sensing,Full/half duplex MDI/MDI-X self-adaption	
Fiber Port Feature	Gigabit SFP interface (Fiber module is not included, need to order separately, module options include single/multi mode, single/dual fiber, LC)	
Forwarding Mode	Store and Forward (Full wire speed)	
Switching Capacity	192Gbps (Non-blocking)	
Forwarding Rate@64byte	14.88Mpps	
MAC	8K	
Buffer Memory	6M	
Jumbo frames	9.6K	
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter) ; 100BASE-TX: Cat5 or later UTP(≤100 meter) ; 1000BASE-X: Cat5e or later UTP(≤100 meter)	
Optical Cable	Multi Mode: 850nm 0-550M;Single Mode: 1310nm 0-40KM , 1550nm 0-120KM.	
Power Supply Pin	Default: 1/2(+), 3/6(-);	
MAX / Average Power Per Port	30W/15.4W	30W/30W
Total PWR / Input Voltage	130W (AC100-240V)	250W (AC100-240V)
Power Consumption	Standby:<8W; Full Load:<120W	Standby:<10W; Full Load:<240W
LED	Power indicator : PWR (green); system indicator : SYS (green) ; network indicator: Link (yellow); SFP fiber port :L/A (green); POE indicator : PoE (green);	

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Power Supply	Built in power supply AC100~240V 50-60Hz 2.3A	Built in power supply AC100~240V 50-60Hz 4.1A
Operation TEMP / Humidity	-20~+55°C; 5%~90% RH Non-condensing	
Storage TEMP / Humidity	-40~+75°C; 5%~95% RH Non-condensing	
Dimension	270*181*44.5mm	
Net /Gross Weight	<1.7kg / <2.2kg	
Installation Method	desktop type ,19 inch 1U cabinet installation	
Port lightning protection / protection level	Port lightning protection : 4KV 8/20us; Protection level: IP30	
Certification	CCC;CE mark, commercial; CE/LVD EN60950; FCC Part 15 Class B; RoHS;	
Warranty	3 years , lifelong maintenance.	
Managed Series Feature		
Interface	IEEE802.3x flow control (full duplex) Broadcast storm suppression for port rate support speed limit for incoming and offline message traffic, with a minimum particle size of 64Kbps. Temperature protection setting Energy saving configuration of port EEE Ethernet	
PoE Management	Total power limit of PoE power supply PoE output power allocation per port, close /af/at PoE output priority configuration for each port PoE working state display per port Power delay start PoE work and time scheduling	

Layer 3 Function	Support L2+ managed function, Support IPV4/IPV6 management Support layer3 soft routing (weak three tier) forwarding, Support different network segments, communication between different VLAN Support static routing / default routing 128, 1024 ARP software forwarding
VLAN	Support port based VLAN (4K), IEEE802.1q Support protocol based VLAN Support Access, Trunk, Hybrid three types of port configuration Support QinQ configuration
Port Aggregation	Support LACP Support static polymerization Support the largest 8 aggregation groups, each aggregation group supports 8 ports.
Spanning Tree	STP (IEEE802.1d) RSTP (IEEE802.1w) MSTP (IEEE802.1s)
Industrial Ring Network Protocol	Support G.8032 (ERPS), support 255 loops at most, and supports 1024 devices per ring. The self healing time of the ring network is less than 20ms
Multicast	Support IGMP Snooping V1/V2 and support 1024 multicast groups at most. Support the user's quick departure mechanism Support MLD Snooping V1/V2 Support multicast VLAN
Image	Bi-directional traffic mirroring supporting the basic port
QoS	Diff-Serv QoS Each port supports 8 output queues Support 802.1p/DSCP priority mapping Support queue scheduling mechanism (SP, WRR, SP+WRR) priority tag Mark/Remark stream based packet filtering Support for stream based redirection Support flow based speed limit

ACL	**Support L2 to L4 packet filtering function, can match the first 80 bytes of the message, provide based on the source MAC address, destination MAC address, source IP address, destination IP address, IP protocol type, TCP/UDP port, TCP/UDP port range, VLAN and other definition ACL.** **Support ACL based on port and VLAN**
Safety Characteristics	Support user grading management and password protection Support IEEE802.1X authentication / centralized MAC address authentication Support AAA&RADIUS authentication Support the number of MAC address learning restrictions Support MAC address black hole Support SSH 2 to provide secure passwords for user login. Support SSL to ensure data transmission security Support port isolation Support the speed limit function of ARP message Support IP source address protection Support ARP intrusion detection function Support against DoS attacks Support port broadcast message suppression Support host data backup mechanism Binding capabilities of IP+MAC+VLAN+ ports
DHCP	Support DHCP Client Support DHCP Snooping Support DHCP Serve Support DHCP Relay

Management And Maintenance	**Support Console/AUX Modem/Telnet/SSH2.0 CLI command line configuration** **Support WEB network management (HTTPS)** **Support FTP, TFTP, X modem, SFTP file download management** **Support SNMP V1/V2C/V3** **Support one bond reduction** **Support NTP clock** **Support system work log** **Support Ping detection** **Support cable state detection** **Support CPU instant utilization status view** **Support link layer discovery protocol LLDP** **Support NMS intelligent management center**
System Requirements	Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or higher, Microsoft Internet Explorer10 or later; Cat5e or later Ethernet cable; TCP/ IP, network adapter and network operating system (Microsoft Windows, Linux or Mac OS X) installed on every computer in the network.

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