



TYPE: Sepitam-PI808G-QGQXM

16-Port 10G Uplink Layer Three Managed Industrial PoE Switch



Description:

The **Sepitam-PI808G-QGQXM** is a full Gigabit managed industrial PoE switch. it has 8*10/100/1000M PoE ports and 4*10/100/1000M RJ45 ports and 4*1/10G SFP+ fiber slot ports. Port 1-8 can support IEEE 802.3af/at standard POE power supply, single port POE power up to 30W, and the maximum POE output power of the whole machine is 120W (at-240W). As a POE power supply device, it can automatically detect and identify the electrical equipment that meets the standard and supply power through the cable. It can supply the POE terminal equipment, such as wireless AP, network camera, network telephone, industrial sensor and so on, to meet the demand for high density PoE power supply network environment. It is suitable for intelligent transportation, rail transportation, electric power industry, mining mining, metallurgy and green energy construction and so on. A reliable communication network.

The **Sepitam-PI808G-QGQXM** has the leading ring network technology, supporting a variety of industrial redundant Redundant ring network protocol, any port can be a ring, support chain type, star type, double star type, ring type, tangent ring, intersecting ring, coupling ring, ring network 50ms self healing. This series of models have high reliability, high security and high manageability, ensure reliable transmission of key data, support remote management, and can manage cluster management with optical network NMS network management platform to achieve the whole process without blind point network management. **Sepitam-PI808G-QGQXM** industrial series products fully follow industrial product design and material. The shell uses aluminum alloy to enhance heat dissipation. It has excellent industrial field environment adaptability (including mechanical stability, climate and environment adaptability, electro-magnetic environment adaptability, etc.), protection level to IP40, support dual redundancy power supply, low Power consumption without fan heat dissipation technology, MTBF average fault free working time can reach 35 years, ultra long 5 years warranty.



Feature

◆ Full gigabit port

- All series supports "Ethernet port + 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 .

◆ Intelligent PoE power supply function

- 8*10/100/1000Base-T RJ45 ports support POE power supply to meet the needs of POE in various industrial fields.
- Conforms to the IEEE 802.3af 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 120W (at-240W), and the maximum POE output power of a single port is 30 W.
- Support POE network management function, through the network management configuration, POE port power allocation, priority setting, port power status view, time scheduling, etc.

◆ Strong business processing capability

- Support IEEE 802.1Q VLAN, users can flexibly divide VLAN according to needs, and support QinQ 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 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 , port mirroring
- 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 fully meets the requirements of CCC, CE, FCC and RoHS safety regulations, and is safe and reliable.
- The user can easily understand the working status of the device through the power indicator (PWR), port status indicator (Link), and POE operation indicator.
- ♦ **Easy operation and maintenance management**
- Supports various management and maintenance methods such as Web management, CLI command line (Console, Telnet), SNMP (V1/V2/V3).
- Supports 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.



Technical Specification

Model	Sepitam-PI808G-QGQXM
Interface	8*10/100/1000M PoE ports (Data/Power); 4*10/100/1000M RJ45 ports; 4*1/10G uplink SFP+ fiber slot ports (Data); 1*Console RS232 port (115200,N,8,1); 2 sets of V+, V- redundant DC power interface (6 Pin Phoenix terminal) Single-pole double throw switch (FAULT)
PoE Port	Port 1-8 can 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; IEEE802.3ae 10GBase-LR/SR IEEE802.3x
PoE Standard	IEEE802.3af/at
Ethernet Port	Port 1-12 can support 10/100/1000BaseT (X) automatic detection, full / half duplex MDI/MDI-X adaptive
SFP Port	10G SFP+ optical fiber interface, default matching optical modules, need to buy separately, (optional order mode / multi-mode, single fiber / double fiber optical module.
Forwarding Mode	Store and Forward (full wire speed)
Switching Capacity	598Gbps
Forwarding Rate@64byte	77.38Mpps
MAC	32K
Buffer Memory	32M
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-TX: Cat5 or later UTP(≤100 meter) 1000BASE-T: Cat5e or later UTP(≤100 meter)
Optical Cable	Multi mode: 850nm 0 ~ 550M, single mode: 1310nm 0 ~ 40KM, 1550nm 0 ~ 120KM.
Power Supply Pin	Only support 1/2 (+), 3/6 (-)
MAX / Average Power Per Port	30W/15.4W
Total PWR / Input Voltage	120W (48-57VDC)
Power Consumption	Standby:<15W; Full load:120W



LED	Power indicator : PWR (green); System indicator :(green); Network indicator: Link (yellow); SFP indicator: L/A (green); PoE indicator: PoE (green)
Power Supply	No, see accessories information table to buy and use
Operation TEMP / Humidity	-40~+75°C;5%~90% RH Non condensing
Storage TEMP / Humidity	-40~+85°C;5%~95% RH Non condensing
Dimension	166*149*74.5mm
Net /Gross Weight	<1.9kg / <2.4kg
Body Material	Metallic
Lightning protection / protection level	<p>Lightning protection: 6KV 8/20us;Protection level: IP40</p> <p>IEC61000-4-2(ESD):±8kV contact discharge,±15kV air discharge</p> <p>IEC61000-4-3(RS):10V/m(80~1000MHz)</p> <p>IEC61000-4-4(EFT): power cable:±4kV; data cable:±2kV</p> <p>IEC61000-4-5(Surge):power cable:CM±4kV/DM±2kV; data cable:±4kV</p> <p>IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz)</p> <p>IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m ,1s to 3s</p> <p>IEC61000-4-9(pulsed magnet field):1000A/m</p> <p>IEC61000-4-10(damped oscillation):30A/m 1MHz</p> <p>IEC61000-4-12/18(shockwave): CM 2.5kV,DM 1kV</p> <p>IEC61000-4-16(common-mode transmission):30V; 300V,1s</p> <p>FCC Part 15/CISPR22(EN55022):Class A</p> <p>IEC61000-6-2(Common Industrial Standard)</p>
Mechanical Properties	<p>IEC60068-2-6 (anti vibration)</p> <p>IEC60068-2-27 (anti shock)</p> <p>IEC60068-2-32 (free fall)</p>
Certification	CCC;CE mark, commercial; CE/LVD EN60950;FCC Part 15 Class B; RoHS;



Business features (only restricted management function models)	
Port	<p>Support IEEE802.3x flow control (full duplex)</p> <p>Support for broadcast storm suppression based on port rate support speed limit for incoming and offline message traffic, with a minimum particle size of 64Kbps.</p> <p>Support port temperature protection settings</p> <p>Support port EEE green Ethernet energy saving configuration</p>
PoE Management	<p>Support total power limit configuration for POE power supply</p> <p>Support PoE output power allocation per port, close / start af/at</p> <p>Support PoE output priority configuration per port</p> <p>Support PoE work status per port display</p> <p>Support power delay start</p> <p>Support PoE work and time scheduling</p>
Layer 3 Function	<p>Support L3 managed function</p> <p>Support IPV4/IPV6 management</p> <p>Support layer 3 of software line speed forwarding. Support different network segments, communication between different VLAN</p> <p>Static routing/default routing, 128 maximum entries</p> <p>ARP protocol, 1024 maximum entries</p>
VLAN	<p>Support port based VLAN (4K), IEEE802.1q</p> <p>Support protocol based VLAN</p> <p>Support Access, Trunk, Hybrid three types of port configuration</p> <p>Support QinQ configuration</p>
Port Aggregation	<p>Support LACP</p> <p>Support static polymerization</p> <p>Support the largest 8 aggregation groups, each aggregation group supports 8 ports.</p>
Spanning Tree	<p>Support STP(IEEE802.1d)</p> <p>Support STPRSTP (IEEE802.1w)</p> <p>Support STP MSTP (IEEE802.1s)</p>



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
Mirror	Bi-directional traffic mirroring supporting the basic port
QoS	Support Diff-Serv QoS Each port supports 8 output queues Support 802.1p/DSCP priority mapping Support queue scheduling mechanism (SP, WRR, SP+WRR) Support priority tag Mark/Remark Support 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
Management And Maintenance	Support Console/AUX Modem/Telnet/SSH2.0 CLI command line configuration Support WEB network management (HTTPS) Support FTP, TFTP, Xmodem, 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 ONV 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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