# TYPE: Sepitam-PI808G-OFM

## 8-Port 10/100/1000Base-T + 8 (100M/1G) SFP L2 Plus Industrial Managed POE+ Switch

## Description:

The Sepitam-PI808G-OFM, the next generation L2+ managed POE+ switch from, features with powerful web management function. Fan-less & low consumption design. Supporting Looped Network Redundancy. (Self-healing time <20ms, with complete security and QoS policy, support VLAN division, port mirroring, port speed limit. Support broadcast storm suppression & flow control. Managed through a variety of I nterfaces and ways including the WEB, CLI and SNMP etc. With the wide working temperature and anti-surge protection in all ports, it is widely used in rail traffic, electricity, water conservancy, petrochemical, industrial control, electric alarm bayonet and other harsh environment, stability required strictly industry or place.

## Feature:

- L2+ features provide better manageability, security, QoS, and performance.
- 8*10/100/1000M Base-TX RJ45 Ports + 8*1000M Base-X SFP Ports. All ports support line-speed forwarding mode
- 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).
- Jumbo frames support up to 9.6K kilobtyes.
- Support enhanced management through WEB, CLI,TELNET, SSH, SNMP.
- IEEE 802.3af and 802.3at. Supports per port PoE configuration function
- G.8032, support <50ms industrial quick ring protection
- 48VDC(48 ~57VDC), dual redundancy power input design for non-stop working, 6-pin 5.08mm-gap plug-in term
- IP40 protection class.
- Provides rail mounting methods.

| Feature | Description | | |
|---|---|---|---|
| Performance | | | |
| Switching capacity and forwarding rate | Model Name | Capacity in Millions of Packets per Second (mpps) (64-byte packets) | Switching Capacity in Giga-bits per Second (Gbps) |
| | Sepitam-PI808G-OFM | 23.81 | 256 |
| Layer 2 Switching | | | |
| Spanning Tree Protocol (STP) | Standard Spanning Tree 802.1d<br>Rapid Spanning Tree (RSTP) 802.1w | | |
| G.8032 ERPS | <50ms ring protection for industrial high reliable application | | |
| Aggregation | Link Aggregation Control Protocol (LACP) IEEE 802.3ad<br>Up to 8 groups<br>Up to 16 ports per group | | |
| VLAN | Support up to 4K VLANs simultaneously (out of 4096 VLAN IDs)<br>Port-based VLAN<br>802.1Q tag-based VLAN | | |
| DHCP Snooping (Layer 2) | Prevent unauthorized configuration and use of IP addresses, while providing support for IP Source Guard and ARP detection | | |
| IGMP v1/v2 snooping | IGMP limits bandwidth-intensive multicast traffic to only the requesters; supports 1024 multicast groups (source-specific multicasting is also supported) | | |
| Security | | | |
| Secure Shell (SSH) Protocol | SSH secures Telnet traffic in or out the switch, SSH v1 and v2 are supported | | |
| Secure Sockets Layer (SSL), HTTPS | SSL encrypts the http traffic, allowing advance secure access to the browser-based management GUI in the switch | | |
| Port Security | Locks MAC Addresses to ports, and limits the number of learned MAC addresses | | |

| IP Source Guard | Prevents datagram with spoofed addresses from being in the network |
|---|---|
| Storm control | Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port |
| ACLs | Support for up to 256 entries<br>Drop or rate limitation based on source and destination MAC, VLAN ID or IP address, protocol, port, differentiated services code point (DSCP) / IP precedence, TCP/ UDP source and destination ports, 802.1p priority, Ethernet type, Internet Control Message Protocol (ICMP) packets, IGMP packets, TCP flag |
| Quality of Service | |
| Hardware Priority Queue | Support 8 hardware queues |
| Scheduling | Strict priority and weighted round-robin (WRR)<br>Queue assignment based on DSCP and class of service (802.1p/ CoS) |
| Classification | Port based; 802.1p VLAN priority based; IPv4/IPv6 precedence/ type of service (ToS) / DSCP based; |
| Rate Limiting | Ingress policer; egress shaping and rate control; per VLAN, per port and flow based |

| Management<br>Web/ SSL, Telnet/ SSH, ping, Trivial File Transfer Protocol (TFTP), SNMP, Syslog | |
|---|---|
| Web GUI interface | Built-in switch configuration utility for browser-based device configuration (HTTP/ HTTPs). Supports configuration, system dashboard, maintenance, and monitoring |
| Dual Image | Dual image provides independent primary and secondary OS files for backup while upgrading |
| Firmware upgrade | Web browser upgrade (HTTP/ HTTPs) and TFTP<br>Upgrade through console port as well |
| Port mirroring | Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to N-1 (N is Switch's Ports) ports can be mirrored to single destination port. A single session is supported. |
| Other management | Single IP management; HTTP/HTTPs; SSH; RADIUS; DHCP Client; SNTP; cable diagnostics; ping; syslog; Telnet client |
| Green Ethernet | |
| Link detection | Compliant IEEE802.3az Energy Efficient Ethernet Task Force. Automatically turns off power on<br>Gigabit Ethernet RJ-45 port when detecting link down or Idle of client. Active mode is resumed without loss of any packets when the switch detects the link up |
| Cable length detection | Adjusts the signal strength based on the cable length. Reduces the power consumption for cables shorter. |
| General | |
| Jumbo frames | Frame sizes up to 9KB supported on Gigabit interfaces |
| MAC Table | Up to 8K MAC addresses. |
| MTBF | 500,000 hours |

| Discovery | | | | | |
|---|---|---|---|---|---|
| Link Layer Discovery Protocol (LLDP) | Used by network devices for advertising their identities, capabilities, and neighbors on a IEEE 802 local area network, principally wired Ethernet. | | | | |
| Interface | | | | | |
| Ports | Model Name | Total System Ports | RJ-45 Ports | (100M/1G ) SFP | (1G/10G ) SFP+ |
| | Sepitam-PI808G-OFM | 16GbE | 8GbE | 8 | -- |
| Environmental (preliminary) | | | | | |
| Dimensions | 165*148*54mm | | | | |
| Weight | 1.1KG | | | | |
| Body Material | Metallic | | | | |
| Power | DC 48~57V | | | | |
| Certification | CE, ROHS, FCC | | | | |
| Operating temperature | -40°c ~ 75°c | | | | |
| Storage temperature | -40°c ~ 85 °c | | | | |
| Operating humidity | 10% to 90% , relative, non-condensing | | | | |

# Technical Specification of

# Sepitam-PI808G-OFM

شرکت سپیتام

www.Sepitam.com