TYPE: Sepitam-PI208G-DFM

Technical Specification of Sepitam-PI208G-DFM

8 port 10/100/1000 switch with 8 POE port and TWO fiber LC SFP port

Description:

This Industrial Gigabit smart L2+ PoE switch prepare a field that power and data can feed from a single point, using Power over Ethernet (PoE) over a single cable. One eight Gigabit Ethernet ports and one console port it prepared any 10/100/1000 Mbps ,all ports can supply industry-standard IEEE 802.3af power for every POE standard devices. It provides the ideal combination of affordability and capabilities for entry level networking of industrial, enterprise application which demands industrial, surveillance, IP Phone, IP Camera or Wireless applications, thus helps you create a more efficient workforce.

Regards to using advanced auto-sensing algorithm the **Sepitam-PI208G-DFM** gives power only to IEEE802.3af front-end devices, so don't worry about connecting PoE or non-PoE devices to this feeder. Additionally, this good gives up the power when PoE devices are disconnected. Intelligently, this manageable PoE **Sepitam-PI208G-DFM** can recognized automatically PoE demands of   devices, speed, duplex, and cable type using Auto Uplink™.

Sepitam-PI208G-DFM made by high quality of components were rigorous screened, have   superior performance in stability, environmental adaptability. It can work normally in very cold   environment to very hot from -40℃ to +75℃. The product planned in a way of better resistance and ability to corrosion and   electromagnetic   interference. Power input also made a suitable and reliable types of power, to get more powerful suitability to environment.

Properties :

- 8 PoE ports support power over Ethernet for Power Devices, Support IEEE 802.3af standard guaranty per port

- Managed POE+ Switch with 8x 10/100/1000Base-T ports, 2x gigabit SFP slots, and 1 console port

- L2+ features provide better manageability, security, QoS, and performance

- 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)

- Support enhanced management through WEB, CLI, TELNET, SSH, SNMP

- All gigabit design, 8x gigabit Ethernet RJ45 ports with Auto Uplink™ , 1x console port, and 2x gigabit SFP slots

- G.8032, support <50ms industrial quick ring protection

Applications:

- Smart Monitoring of IP Camera in CCTV monitoring

- Digital Radio in transmission systems

- IP telephony in telecom systems

- Intelligent transportation supervisory system（ITS）

- Intelligent network Tele-Communication System

- Security protection system, TV medical treatment

- Long-distance Multi-media Schooling, Campus monitoring

- Broadcast television transmission system

- Wireless AP layout transmission and power supply

- Auto-Negotiation for Full-duplex Mode and Half-duplex Mode.

- RJ-45 port supports Auto MDI/MDI-X.

- Provides both rail type or Wall mounted installation methods.

- IP40 protection class.

Specifications:

Product	10-Port Managed Industrial POE Switch Sepitam-PI208G-DFM	
Performance (Switching capacity and forwarding rate)		
Switch Processing Scheme	store-and-forward Auto-Negotiation for Full-duplex Mode and Half-duplex Mode. RJ-45 port supports Auto MDI/MDI-X.	
Standards Compliance	IEEE802.3: CSMA/CD IEEE802.3i: 10Base-T IEEE802.3u: 100Base-T IEEE802.3ab: 1000Base-T IEEE802.3z: 1000Base-LX	
Power	Removable 6 green terminal wiring Power requirements: DC48V 2.5A	
Casing	Aluminum case– IP40- DIN RAIL Type	
Buffer Memory Capacity in Millions of Packets per Second (mpps) (64-byte packets)		4M 13.39Mpps
Switching Capacity in Gigabits per Second (Gbps) (Bandwidth) Forwarding Rate		20G 13.39Mpps@64byts
Interface		
Ports	8x 10/100/1000Base-T ports + 2x gigabit SFP slots + 1 console port	
Layer 2 Switching		
Spanning Tree Protocol (STP)	Standard Spanning Tree 802.1d 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; Up to 7 groups ;Up to 14 ports per group	
VLAN	Support up to 4K VLANs simultaneously (out of 4096 VLAN IDs) ;Port-based VLAN; 802.1Q tag-	
IGMP v1/v2 snooping	IGMP limits bandwidth-intensive multicast traffic to only the requesters; supports 1024 multicast groups (source-specific multicasting is not supported)	
Security		
Secure Shell (SSH)	SSH secures Telnet traffic in or out the switch, SSH v1 and v2 are supported	
Secure Sockets Layer (SSL),	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	
DHCP Snooping	prevent unauthorized configuration and use of IP addresses, while providing support for IP Source	
IP Source Guard	Prevents datagram with spoofed addresses from being in the network	
ARP Inspection	Prevent ARP spoofing attacks and ARP	
Storm control	Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port	

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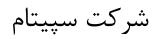|	
ACLs	Support for up to 256 entries; Drop or rate limitation based on source and destination MAC, VLAN ID or IP address, protocol, port, differentiated services code point (DSCP) / IP precedence, TCP/ UDP source and destination ports, 802.1p priority, Ethernet type, Internet Control Message Protocol (ICMP) packets, IGMP packets, TCP flag

Quality of Service	
Hardware	Support 8 hardware queues
Scheduling	8 COS queues per port support strict priority and weighted round-robin (WRR)
Classification	Port based; 802.1p(PCP) VLAN priority based;
Rate Limiting	**Ingress police regress shaping and rate control ;per VLAN, per port and flow based**
Management	(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; 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 (SSH secure support)

Green Ethernet	
Green and Energy-saving Ethernet (EEE)	Compliant IEEE802.3az Energy Efficient Ethernet Task Force. Automatically turns off power on 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 4K MAC addresses

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.

PoE			
PoE Standard:	IEEE802.3af/IEEE802.3at	Max. PoE Power Per Port:	15.4W (IEEE 802.3af) / 30W (IEEE 802.3at)
PoE Ports:	8 ports support PoE	Power Type:	End-span (Mid-span optional)

Minimum Requirements
Web browser: Mozilla Firefox version 2.5 or later, Microsoft Internet Explorer version 6 or later;
Category 5 Ethernet network cable;
TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on each computer in network

Environmental (preliminary)	
Dimensions	165x145x45mm
Working Environment	Operating temperature: -40°c to 80°c ; Storage temperature: -40°c to 80°c; Operating humidity: 10% to 95% , relative, non-condensing

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