



TYPE: Sepitam-PI204G-DFM

Technical Specification of Sepitam-PI204G-DFM

Industrial 4 port 10/100/1000 Managed POE switch and two SFP fiber ports



Description:

Sepitam-PI204G-DFM Industrial Switch is a Layer 2+ managed Gigabit Switch that features 4-Port Gigabit RJ45 + 2-Port Gigabit SFP optical port, is specially designed to build a full Gigabit backbone to transmit reliable and high-speed data in heavy industrial demanding environments and forward data to remote network through fiber optic cabling. It comes with an IP40 rugged case. The industrial managed switch provides user-friendly but advanced IPv6/IPv4 management interfaces. It is the best investment for expanding industrial business or upgrading its network infrastructure.

Features:

- Support L2+ Switching features including 802.1Q VLAN, Mirroring, Port isolation, IGMP Snooping, DHCP Snooping, LLDP, 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
- Dual firmware backup
- 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
- 6KV surge protection, 6KV contact/8KV air ESD protection



Specifications:

Model	Sepitam-PI204G-DFM
Copper Ports	4-10/100/1000BASE-T RJ45 auto-sensing ports
Fiber Ports	2-100/1000BASE-T SFP interfaces, supports 100/1000Mbps dual mode
Console Ports	1 x RS-232-to-RJ45 serial port (115200, 8, N, 1)
Switch Architecture	Store-and-Forward
Switch Fabric	12Gbps/non-blocking
Throughput	8.928Mpps @64 bytes
Address Table	8K entries
Share Data Buffer	4.1 Mb
Jumbo Frame	9216 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	12~48 VDC, 50/60Hz, Dual DC
LED Indicators	<p>Power: Green Solid on--power work normal, off--power disconnected</p> <p>System: Green Blink--work normally, solid on--soft work abnormal, fast blink--soft upgrade</p> <p>10/100/1000T RJ45 Interfaces (Port 1 to Port 4): 1000 LNK/ACT (Green), 10/100 LNK/ACT (yellow), Blink--port connected with data transmission; Solid on--port connected without data transmission</p> <p>100/1000Mbps SFP Interfaces (Port 5 to Port 6): Green Blink- port connected with data transmission; Solid on- port connected without data transmission</p>
EMC	<p>Surge Immunity: 6KV Per: IEC61000-4-5</p> <p>ESD Protection: ESD Level 4 Per: IEC61000-4-2; EFT Level 4 Per: IEC61000-4-4</p>
Dimension	145x112x47.2mm
Weight	0.6kg
Working Temperature	-40° C to 75° C
Storage Temperature	-40°C to 80 °C
MTBF	50,000hrs



<p>Port configuration</p>	<p>Auto-negotiation Flow Control Port Mirror: TX/RX/BOTH; Many-to-1 monitor CPU Mirror Traffic statistics</p>
<p>Link Aggregation</p>	<p>Static link aggregation LACP (Dynamic Trunk/Static Trunk) Algorithm based on Source/Destination MAC Algorithm based on Source/Destination IP</p>
<p>MAC Table</p>	<p>Aging Time Static MAC address Dynamic MAC address management</p>
<p>VLAN</p>	<p>4094 Active VLANs 4094 VID 802.1Q Tag VLAN Port VLAN Protocol VLAN MAC VLAN Voice VLAN 802.1ad Q-in-Q tunneling Private VLAN (Protected port) GARP/GVRP</p>
<p>ACL</p>	<p>256ACLs L2, L3 e L4 Time-based ACL IP ACL MAC ACL MAC-IP ACL User-Defined ACL ICMPv6</p>
<p>Spanning tree</p>	<p>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</p>



Ring Protection	<20ms G.8032 ERPS Ring (Fast Ring)
Multicast	256 groups IGMP v1/v2/v3 Snooping, Fast Leave MLD Snooping Multicast VLAN IGMP filter MVR Multicast Routing
QOS	8 mapping 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 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



Layer 3 Functions:

<p>Static Routing</p>	<p>IPv4 Unicast: Static Routing (Software Base) IPv6 Unicast: Static Routing (Software Base)</p>
<p>IPV6</p>	<p>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</p>



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