![Sepitam logo]

TYPE: Sepitam-PI408G-QFM-bt

Technical Specification of Sepitam-PI408G-QFM-bt

8 port 10/100/1000 switch with 8 POE port and 4 fiber SFP port

Description:

Sepitam-PI408G-QFM-bt Layer 2 Managed Industrial 8-Port Gigabit 802.3bt PoE++ Switch supports 8x10/100/1000Base-TX 90W 802.3bt PoE++ Ports and +4x1000Base-FX SFP Ports.Integrated with high performance, high security and multiple services, this switch provide full line-rate layer 2 switching and complete QoS policies to ensure the undelayed transmission of key data by applying different traffic classification rules to different applications.Bisides,the switches are classified as power source equipment (PSE), can be used to power IEEE802.3af/at/bt standard devices (PD), eliminating the need for additional wiring.Its dustproof fully sealed structure (IP40 protection grade), overcurrent,over-voltage and EMC protected,redundant double power input, -40～ 80°C wide operating temperature can help system main tenancy personnel monitor the network operation, which can work reliably in harsh and dangerous environment.It supports various rich protocols, such as integrated switching and security, support public Ethernet multi-ring protection technology (ERPS), greatly improve network flexibility and enhance the reliability and security of industrial networks

Features:

♦   8x10/100/1000Base-TX 90W 802.3bt PoE Ports+4x1000Base-FX SFP Ports

♦ PoE port 1-8 supports IEEE 802.3af/at/bt(Max 90W/port)

♦ Automatic MAC address learning and aging

♦ Support Auto-MDIX, and full/half duplex self-negotiation mode

♦ Support IEEE802.3az energy efficient Ethernet technology

♦ LED indicators for monitoring power/link/activity

♦ Industrial lightning chip design,up to 6KV effective against lightning,avoiding   electrostatic induction

♦ Supports DIN-Rail installation

♦ Super lightning protection, IP40 protection.

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- Excellent heat elimination without cooling fan.

- Electric 8KV surge protection, easy to use in outdoor environment

- Redundant tripple DC48-57V power inputs.

- Apply to Urban Intelligent Traffic Monitoring System (ITS), Safe City. • Harsh industrial environment or higher requirement

- -40°C-80°C operating temperature range.

Specifications:

Product Model	Sepitam-PI408G-QFM-bt
Fixed Port	8x10/100/1000Base-TX 90W 802.3bt PoE +4x1000Base-FX SFP
Network Protocols	IEEE802.3 10Base-T IEEE802.3u 100Base-TX/FX IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-SX/LX IEEE802.3x flow control IEEE 802.3af/at/bt PoE/PoE+/PoE++ IEEE 802.3ad IEEE 802.3q 、 IEEE 802.3q/p IEEE 802.1w、 IEEE 802.1d 、 IEEE 802.1S STP(Spanning Tree Protocol) RSTP/MSTP(Rapid Spanning Tree Protocol) EPPS ring network protocol EAPS ring network protocol
POE Description	POE Port:8x10/100/1000Base-TX RJ45 802.3bt PoE++ PSE POE Standard:IEEE802.3af/at/bt Power Pin Assignment:1/2/4/5+,3/6/7/8-(4 Pairs) POE Power Output:PoE Port 1-8 90W Max
Network Media	10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-TX: Cat5 or later UTP(≤100 meter) 1000BASE-TX: Cat6 or later UTP(≤100 meter)
Fiber Optic	Interface:4x1000Base-FX SFP Distance:0-80km(Based on the optical transceiver use)

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Switch Properties	Switching Capacity: 128Gbps Packet forwarding rate: 40.32Mpps MAC Address Table: 8K Packet Buffer Size: 4.1M RAM:128M FLASH:16M CPU:500M
Forwarding Mode	Store-and-Forward
Protection	lightning protection, IP40 protection,Overload protection,Reverse Connection Protection,Redundancy prodection
LED Indicators	Power: PWR; Link: Link/Act,PoE;9-12:SFP Optic;HW:Ring Network LED
Power Supply	Input Voltage: Redundant dual DC48～57V Connector: 5.08mm Removable Termina Block
Other Specifications	
Working Environment	Working temperature: -40～80°C ; Storage temperature: -40～85°C Relative Humidity: 5%~95 %(no condensation)
Industry Standard	FCC CFR47 Part 15,EN55022/CISPR22, Class A EMS: IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air) IEC61000-4-3 (RS): 10V/m (80MHz-2GHz) IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)
MTBF	300,000 hours
Mechanical	Case: Aluminum IP Rating: IP40 protection Cooling way: Natural cooling,fanless design Dimension: 188x130x50mm(LxWxH) N.W: 1.3Kg Installation: DIN-Rail
Layer 2 Switching	

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Ring Network	STP(Spanning Tree Protocol) RSTP/MSTP(Rapid Spanning Tree Protocol) PPS ring network protocol EAPS ring network protocol
IGMP Snooping	IGMPv1/2/3, MLDv1/2 Snooping GMRP protocol registration Multicast address management, multicast VLAN, multicast routing ports, static multicast addresses
VLAN	Port-based VLAN Up to 4096 VLAN Support Voice VLAN,can configure QoS for voice data 802.1Q VLAN
QOS	802.1p port queue priority algorithm Cos/Tos,QOS sign WRR (Weighted Round Robin)，Weighted priority rotation algorithm WRR、SP、WFQ,3 priority scheduling models
Port management	Enable/Disable port.port bandwidth management,port flow-control
Link Aggregation	Dynamic IEEE 802.3ad LACP Link Aggregation, Static Link Aggregation
Diagnostic Maintenance	Port mirroring, Ping,Admin login privleges
Security	DHCP Server/Client/Relay option 82/Snooping User hierarchical management
Flexibility security	Port based and MAC based IEEE 802.1X, ACL, HTTP/HTTPS, SSL/SSH v2 Data control Port-based ingress/egress speed limit, Full duplex IEEE 802.3x, half duplex back-pressure flow control. Broadcast storm suppression, Unknown-Multicast suppression and UnknownUnicast suppression
PoE Function	Port PoE ON/OFF Switch Schedule arrangement, time switch Voltage, current and power Display System total power display and configuration PoE Watchdog, automatically restart and timed restart when device crashes; support IP binding restart Port power configuration Over-power Indicator Port PoE type configuration(af/at)
Network Management	WEB interface managementCLI management based on Telnet、 TFTIP、 ConsoleSNMP V1/V2/V3 managementRMONV1/V2 managementRMON management

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