SG-POE31024PFM

Layer 2 26-Port Gigabit Uplink Managed PoE Switch

- IP30 galvanized steel casing, No fan mute design
- Optical module DDM digital diagnosis 1.25G fast V-Ring
- 4kv dual lightning protection
- 10/100M PoE ports
- AC power input port

Overview

The SG-POE31024PFM series is a Gigabit uplink managed PoE fiber switch independently developed by Shogun. It has 24*10/100M RJ45 ports and 2 *10/100/1000M RJ45 ports and 2 *100/1000M SFP fiber slot ports (combo port), Port 1-24 can support IEEE 802.3af/at standard PoE power supply, and single port PoE power reaches 30W. The maximum PoE output power is 400W(at-600W). and each port can realize line-speed forwarding.

The SG-POE31024PFM series adopts a new generation of high-performance hardware and software platforms to provide flexible and cost-effective 100Mbps access and uplink ports. It supports complete security protection mechanisms, complete ACL/QoS policies, and flexible VLAN functions, and is easy to manage and maintain. As a PoE power supply device, it can automatically detect and identify the power-receiving equipment that meets the standard and meet the network environment that needs high-density PoE power supply. It is suitable for hotels, campuses, parks, attractions, supermarkets, Factory quarters and small and medium-sized enterprises form a cost-effective network.

Features

100Mbps access, Gigabit (TP/SFP) combo port uplink

- All series supports "10/100M Ethernet port and Gigabit TP/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

- 16*10/100Base-TX RJ45 ports, meeting the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.
- IEEE 802.3af/at PoE standard, without damaging non-PoE devices.
- Priority system for PoE port, it will supply power to the high priority level port first when the power budget is insufficient and avoid overwork of the device.
- PoE network management, realize PoE port power allocation, priority setting, port power status viewing, time scheduling, etc.

Security

- 802.1X authentication.
- Port autentication ,Storm control.
- IP-MAC address authentication.

Strong business processing capability

- IEEE802.1Q VLAN, flexible VLAN division, Voice VLAN, and QinQ configuration.
- QoS, Priority mode based on 802.1P, Port & DSCP, queue scheduling algorithm including EQU, SP, WRR & SP+WRR.
- ALC, filter data packet through configuring matching rules, processing operation & time permission, and provide flexible and safe access control.
- IGMP V1/V2 and IGMP Snooping.
- ERPS/STP/RSTP/MSTP.
- Static and dynamic aggregation.

Strong business processing capability

- Low power consumption, no fan mute design, galvanized steel metal casing.
- Self-developed power supply, high redundancy design, providing a long term and stable PoE power output.
- CCC,CE, FCC, RoHS.
- The user-friendly panel, it can show the device status through the LED indicator of PWR, Link,POE.

Easy operation and maintenance management

- Web management, CLI command line (Console, Telnet), SNMP (V1/V2/V3).
- HTTPS, SSLV3, and SSHV1/V2.
- RMON, system log, LLDP, and port traffic statistics.
- CPU monitoring, memory monitoring, Ping test, and cable diagnose.

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Model	SG-POE31024PFM	SG-POE31024PFM-at
Interface Characteristics		
Fixed Port	24*10/100Base-TX PoE ports (Data/Power) 2*10/100/1000Base-T uplink RJ45 ports (Data) 2*1000M uplink SFP fiber slot ports (Data) 1*Console port (command line)	
Ethernet Port	Port 1-24 support 10/100Base-TX, port 25-26 support 10/100/1000Base-T, auto-sensing, full/half duplex MDI/MDI-X self-adaption.	
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)	
SFP Slot Port	Gigabit SFP optical fiber interface, default matching optical modules (optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC)	
Optical Cable	0 ~ 120KM.	
Chip Parameter		
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-X IEEE802.3x	
Forwarding Mode	Store and Forward(Full Wire Speed)	
Switching Capacity	64Gbps (Non-blocking)	
Forwarding Rate@64byte	6.55Mpps	
MAC	16K	
Buffer Memory	4M	
Jumbo Frame	10K	
LED Indicator	Power:PWR(green), Data :Link,Link/Act (yellow), PoE: PoE (green), Speed: SPD (green)	

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PoE & Power		
PoE Port	Port 1 to 24 IEEE802.3af/at @ POE	
PoE Management	PoE working status Delay start of power supply PoE output priority configuration Scheduling of PoE operation and time	
Power Supply Pin	Defaul :1/2 (+), 3/6 (-),optional:4/5 (+), 7/8 (-)	
Max Power Per Port	30W; IEEE802.3af/at	
Total PWR / Input Voltage	400W/ (AC100-240V)	600W/ (AC100-240V)
Power Consumption	Standby<18W, Full load<380W	Standby<25W, Full load<600W
Power Supply	Built in power supply, AC100~240V 50-60Hz 5.0A	Built in power supply, AC100~240V 50-60Hz 6.6A
Physical Parameter		
Operation TEMP / Humidity	-20~+55°C;5%~90% RH Non condensing	
Storage TEMP / Humidity	-40~+75°C;5%~95% RH Non condensing	
Dimension (L*W*H)	440*290*44.5mm	
Net /Gross Weight	<4.5kg/<5kg	
Installation	Desktop,wall mounted,19 inch 1U cabinet installation	
Certification & Warranty		
Port lightning protection	Port lightning protection : 4KV 8/20us,Protection level: IP30	
Certification	CCC;CE mark, commercial;CE/LVD EN60950; FCC Part 15 Class B;RoHS	
Warranty	3 years, lifetime maintenance.	
Network Management Features		
Interface	IEEE802.3X (Full-duplex) Broadcast storm control based on port speed The speed limit of the message flow in the access port. The minimum particle size is 64Kbps.	
VLAN	QinQ configuration VLAN based on protocol	

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	4K VLAN based on port, IEEE802.1q
Port Aggregation	LACP, Static aggregation Max 13 aggregation groups and 8 ports per group.
Spanning Tree	STP (IEEE802.1d),RSTP (IEEE802.1w), MSTP (IEEE802.1s)
Multicast	MLD Snooping v1/v2, Multicast VLAN IGMP Snoopingv1/v2/v3, Max 64 multicast groups, Fast log out
Image	Bi-directional traffic mirroring supporting the basic port
QoS	8*Output queues of each port 802.1p/DSCP priority mapping Diff-Serv QoS,Priority Mark/Remark Queue Scheduling Algorithm (SP, WRR, SP+WRR)
ACL	Port-based Issuing ACL L2 to L4 packet filtering, matching first 80 bytes message. Provide ACL based on MAC, Destination MAC address, IP Source, Destination IP, IP Protocol Type, TCP/UDP Port, TCP/UDP Port Range, and VLAN, etc.
Security	Port isolation, Storm control. IP-MAC-VLAN-Port binding
DHCP	DHCP Client,DHCP Snooping,DHCP Relay
Management	NTP SNMP V1/V2C/V3 One-key recovery System work log Web Management (HTTPS)