

SG-IPS33108PFM

Gigabit Managed Industrial PoE Switch

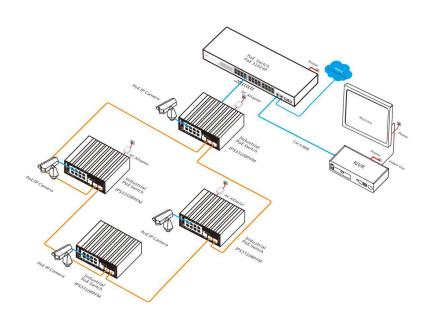




DESCRIPTIONS

The SG-IPS33108PFM is a full Gigabit managed industrial PoE switch independently developed by Shogun. it has *10/100/1000M PoE ports and 2*100/1000 SFP fiber slot ports , port 1-8 can support IEEE 802.3af/at standard POE power supply, single port POE power up to 30W, and the maximum POE output power is 60W (at-110W). As a POE power supply device, it can automatically detect and identify the electrical equipment that meets the standard and supply power through the cable. It can supply the POE terminal equipment, such as wireless AP, network camera, network telephone, industrial sensor and so on, to meet the demand for high density PoE power supply network environment. It is suitable for intelligent transportation, rail transportation, electric power industry, mining mining, metallurgy and green energy construction and so on. A reliable communication network. Managed model supports a variety of network redundancy protocol STP/RSTP/MSTP (<50ms). When one way network fails, communication can be recovered quickly to ensure uninterrupted communication of important applications. SG-IPS33108PFM industrial series products fully follow industrial product design and material. The shell adopts aluminum alloy to enhance heat dissipation efficiency, IP40 protection grade, and ensures the stable operation of the equipment in bad environment. According to the actual application needs, through Web, CLI, SNMP network management, POE power supply management, port flow control, VLAN division, STP, RSTP and other functions of the application service configuration.

APPLICATIONS





FEATURES

■ Full gigabit port

- ♦ All series supports "Ethernet port + 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

- 8*10/100/1000Base-T RJ45 ports support POE power supply to meet the needs of POE in various industrial fields.
- ◇ Conforms to the IEEE 802.3af POE power supply standard, automatically recognizes POE devices for power supply, without damaging non-POE devices. The maximum POE output power of the entire device reaches 120W(at-240W), and the maximum POE output power of a single port is 30 W.
- Support POE network management function, through the network management configuration, POE port power allocation, priority setting, port power status view, time scheduling, etc.

Strong business processing capability

- ♦ Support IEEE 802.1Q VLAN, users can flexibly divide VLAN according to needs, and support QinQ configuration.
- ♦ Support QoS, support port based, 802.1P based and DSCP based three priority modes and Equ, SP, WRR, SP+WRR four queue scheduling algorithms.
- ACL supports the filtering of data packets by configuring matching rules, processing operations and time permissions, and provides a flexible access control strategy.
- Support IGMP V1/V2 multicast protocol and support IGMP Snooping to meet the multiterminal HD video surveillance and video conference access requirements.
- ♦ Support industrial fast Ring network ERPS and STP/RSTP/MSTP production tree protocol, eliminates two layers of loops, and realizes link backup.
- ♦ Support static convergence and dynamic convergence, effectively increases link bandwidth, achieves load balancing, link backup, and improves link reliability.

Complete safety protection mechanism

Support 802.1X authentication, provide authentication function for LAN computer, and control the authorized status of controlled port according to the result of authentication.



- Support port isolation , port mirroring
- ♦ Support port broadcast storm suppression
- ♦ Support port +MAC binding, IP+MAC+ port binding function

■ The equipment is stable and reliable

- The host has low power consumption, no fan mute design, aluminum alloy metal shell, excellent heat dissipation, and ensure stable operation of products.
- ♦ The equipment fully meets the requirements of UL, CE, FCC and RoHS safety regulations, and is safe and reliable.
- The user can easily understand the working status of the device through the power indicator/ system indicator (SYS), port status indicator (Link,L/A), and POE operation indicator.

■ Easy operation and maintenance management

- ♦ Supports various management and maintenance methods such as Web management, CLI command line (Console, Telnet), SNMP (V1/V2/V3).
- ♦ Supports encryption methods such as HTTPS, SSLV3, and SSHV1/V2 for more secure management.
- Support RMON, system log, port traffic statistics, easy network optimization and transformation.
- Support LLDP, which is convenient for the network management system to query and judge the communication status of the link.
- ♦ Support CPU monitoring, memory monitoring, ping detection, cable length detection.



Model	SG-IPS33108PFM	SG-IPS33108PFM-at
Interface	8*10/100/1000Base-T PoE ports (Data	/Power)
	2*100/1000Base-X uplink SFP fiber slot ports (Data)	
	1 * RS232 console port(115200,N,8,1)	
	2 sets of V+, V- redundant DC power interface (5 Pin Phoenix terminal)	
PoE Port	Port 1-8 can support IEEE802.3af/at POE standard	
Network Protocol	IEEE802.3 10BASE-T; IEEE802.3i 10Base-T;	
	IEEE802.3u 100Base-TX/FX;	
	IEEE802.3ab 1000Base-TX	
	IEEE802.3z 1000Base-X	
	IEEE802.3x	
PoE Standard	IEEE802.3af/at	
Ethernet Port	10/100/1000BaseT (X) automatic detection, full / half duplex MDI/MDI-X	
Feature	adaptive	
SFP Port	Gigabit SFP optical fiber interface, default matching optical modules, need to	
Characteristic	buy separately, (optional order mode / multi-mode, single fiber / double fiber	
Onaraciensiic	optical module.	
Forwarding	Store and Forward(Full Wire Speed)	
Mode		
Switching	192Gbps	
Capacity		
Forwarding	14.88Mpps	
Rate@64byte		
MAC	8K	
Buffer Memory	4M	
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter)	
	100BASE-TX: Cat5 or later UTP(≤100 meter)	
Transmission	1000BASE-T: Cat5 or later UTP(≤100 meter)	
Optical Cable	Optical Cable Multi mode: 850nm 0 ~ 550M,single mode: 1310nm 0 ~ 40KM, 15	
	120KM.	
Power Supply	Only support 1/2 (+), 3/6 (-) 4-core power supply	
Pin		
Max / Average	30W/15.4W	30W/30W
Power Per Port		3311,3311
Total PWR /	120W (48-57VDC)	240W (50-57VDC)
Input Voltage		
Power	Standby:<8W;Full load:<120W	Standby:<10W;Full load:<240W
Consumption	•	•
LED	System indicator:SYS(green); Network Indicator: Link (yellow); SFP Indicator:	
	L/A (green) ; PoE Indicator: PoE (green)	
Power Supply	No, see accessories information table to buy	



Operation		
TEMP /	-40~+80°C;5%~90% RH Non condensing	
Humidity		
Storage TEMP / Humidity	-40~+85°C;5%~95% RH Non condensing	
Dimension	165*148*54mm	
Weight	<0.8kg / <1.2kg	
	Lightning protection: 6KV 8/20us;Protection level: IP40	
	IEC61000-4-2(ESD):±8kV contact discharge,±15kV air discharge	
	IEC61000-4-3(RS):10V/m(80~1000MHz)	
	IEC61000-4-4(EFT): power cable:±4kV; data cable:±2kV	
	IEC61000-4-5(Surge):power cable:CM±4kV/DM±2kV; data cable:±4kV	
Lightning	, <u> </u>	
protection /	IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m ,1s to 3s	
protection level	IEC61000-4-9(pulsed magnet field):1000A/m	
·	IEC61000-4-10(damped oscillation):30A/m 1MHz	
	IEC61000-4-12/18(shockwave):CM 2.5kV,DM 1kV	
	IEC61000-4-16(common-mode transmission):30V; 300V,1s	
	FCC Part 15/CISPR22(EN55022):Class A	
	IEC61000-6-2(Common Industrial Standard)	
Mechanical	IEC60068-2-6 (anti vibration)	
Properties	IEC60068-2-27 (anti shock)	
·	IEC60068-2-32 (free fall)	
Certification	CCC;CE mark, commercial; CE/LVD EN60950;FCC Part 15 Class B; RoHS;	
Warranty	5 years , lifelong maintenance.	
Business feature	es (only restricted management function models)	
	Support IEEE802.3x flow control (full duplex)	
Port	Support for broadcast storm suppression based on port rate	
	support speed limit for incoming and offline message traffic, with a minimum	
	particle size of 64Kbps.	
	Support port temperature protection settings	
	Support port EEE green Ethernet energy saving configuration	
	Support total power limit configuration for POE power supply	
	Support PoE output power allocation per port, close / start af/at	
PoE	Support PoE output priority configuration per port	
Management	Support PoE work status per port display	
	Support power delay start	
	Support PoE work and time scheduling	
	L2+ network management function	
Layor 2	Support IPV4/IPV6 management	
Layer 3 Function	Support layer3 soft routing (weak three tier) forwarding,	
	Support different network segments, communication between different VLAN	
	Support static routing / default routing 128, 1024 ARP software forwarding	





	Support IP source address protection	
	Support ARP intrusion detection function	
	Support against DoS attacks	
	Support port broadcast message suppression	
	Support host data backup mechanism	
	Binding capabilities of IP+MAC+VLAN+ ports	
DHCP	Support DHCP Client	
	Support DHCP Snooping	
	Suport DHCP Serve	
	Suport DHCP Relay	
Management And	Support Console/AUX Modem/Telnet/SSH2.0 CLI command line	
	configuration	
	Support WEB network management (HTTPS)	
	Support FTP, TFTP, Xmodem, SFTP file download management	
	Support SNMP V1/V2C/V3	
	Support one bond reduction	
Maintenance	Support NTP clock	
Mairiteriance	Support system work log	
	Support Ping detection	
	Support cable state detection	
	Support CPU instant utilization status view	
	Support link layer discovery protocol LLDP	
	Support ONV NMS intelligent management center	
	Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or	
System	higher, Microsoft Internet Explorer10 or later;	
Requirements	Cat5e or later Ethernet cable;	
	TCP/ IP, network adapter and network operating system (Microsoft Windows,	
	Linux or Mac OS X) installed on on every computer in the network.	