

SG-IPS33148PFM Gigabit Managed Industrial PoE Switch

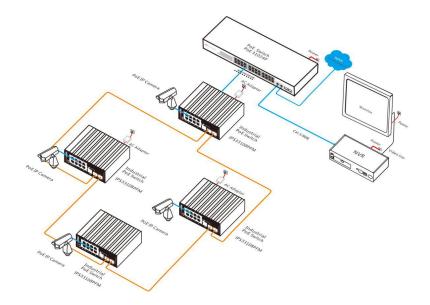




DESCRIPTIONS

The SG-IPS33148PFM is a full Gigabit managed industrial PoE switch independently developed by Shogun .it has 8*10/100/1000M PoE ports+2*10/100/1000M RJ45 ports +4*100/1000M SFP fiber slot ports , port 1-8 can supports IEEE 802.3af/at standard POE power supply, single port POE power up to 30W, and the maximum POE output power is 120W (at-240W). 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-IPS33148PFM 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



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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.
- \diamond Support non-blocking wire speed forwarding .
- \diamond Support full duplex based on IEEE802.3x and half duplex based on backpressure .

Intelligent POE Power Supply Function

- 8*10/100/1000 Base-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 multi terminal HD video surveillance and video conference access requirements.
- Support 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 (PWR), port status indicator (Link/Act), 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-IPS33148PFM	SG-IPS33148PFM-at	
	8*10/100/1000Base-T POE Ports (Data	a/Power)	
	2*10/100/1000Base-T uplink RJ45 ports (Data)		
Interface	4*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 (6 Pin Phoenix terminal)		
PoE Port	Port 1-8 supports POE @ IEEE802.3a	f/at	
	IEEE802.3 10BASE-T; IEEE802.3i 10Base-T;		
	IEEE802.3u 100Base-TX/FX;		
Network	IEEE802.3ab 1000Base-TX		
Protocol	IEEE802.3z 1000Base-X		
	IEEE802.3x		
PoE Standard	IEEE802.3af/at		
	10/100/1000BaseT (X) automatic deter	ction, full / half duplex MDI/MDI-X	
	adaptive		
	Gigabit SFP optical fiber interface, def	ault matching optical modules, need to	
SFP Port	buy separately, (optional order mode / multi-mode, single fiber / double fiber		
Characteristic	optical module.		
Forwarding	Store and Forward(Full Wire Speed)		
Mode			
Switching	256Gbps		
Capacity			
Forwarding	20.83Mpps		
Rate@64byte			
MAC	8K		
Buffer Memory	4M		
Twinter I D. 1	10BASE-T: Cat3,4,5 UTP(≤100 meter)		
Twisted Pair	100BASE-TX: Cat5 or later UTP(≤100 meter)		
Transmission	1000BASE-T: Cat5 or later UTP(≤100 meter)		
Optical Cable	Multi mode: 850nm 0 ~ 550M,single mode: 1310nm 0 ~ 40KM, 1550nm 0 ~		
	120KM.		
Power Supply	Only support 1/2 (+), 3/6 (-) 4-core power supply		
Pin			
Max / Average	30W/15.4W	30W/30W	
Power Per Port	3000/15.400	3000/3000	
Total PWR /		240W (48-57VDC)	
Input Voltage	120W (48-57VDC)		
Power	Standby:<10W/Full load:<120W/	Standby:<12\//:Eull.load:<240\//	
Consumption	Standby:<10W;Full load:<120W Standby:<12W;Full load:<240W		
LED	Power Indicator : PWR (green);system indicator:SYS(green); Network		
	Indicator: Link/Act (yellow);SFP Indicator: L/F (green) ; PoE Indicator: PoE		



	(green) ;Speed Indicator:100/1000 (green)	
Input Voltage	12-48VDC	
Power Interface	6 Pin industrial Phoenix terminal, support anti-reverse protection	
Power Supply	No, see accessories information table to buy and use	
Operation		
TEMP /	-40~+80°C;5%~90% RH Non condensing	
Humidity		
Storage TEMP /	-40~+85°C;5%~95% RH Non condensing	
Humidity		
Dimension	165*148*54mm	
Net /Gross	<1.1kg / <1.5kg	
Weight		
	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	IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz)	
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)	
	Support for broadcast storm suppression based on port rate	
Port	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	
Layer2+	L2+ network management function	



Function	Support IPV4/IPV6 management
	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 port based VLAN (4K), IEEE802.1q
	Support protocol based VLAN
VLAN	Support Voice VLAN
	Support for MAC address-based VLANs
	Support Access, Trunk, Hybrid three types of port configuration
	Support QinQ configuration
	Support Dynamic/LACP, Link Aggregation (IEEE802.3ad)
Port	Support static polymerization
Aggregation	Support the largest 8 aggregation groups, each aggregation group supports 8
	ports.
Spanning Tree	Support STP (IEEE802.1d)
	Support STPRSTP (IEEE802.1w)
	Support STP MSTP (IEEE802.1s)
Industrial Ring	Support G.8032 (ERPS), support 255 loops at most, and supports 1024
Network	devices per ring.
Protocol	The self healing time of the ring network is less than 20ms
	Support IGMP Snooping V1/V2 and support 1024 multicast groups at most.
Multicast	Support the user's quick departure mechanism
	Support MLD Snooping V1/V2
	Support multicast VLAN
Mirror	Bi-directional traffic mirroring supporting the basic port
	Support Diff-Serv QoS
	Each port supports 8 output queues
	Support 802.1p/DSCP priority mapping
QoS	Support queue scheduling mechanism (SP, WRR, SP+WRR)
	Support priority tag Mark/Remark
	Support stream based packet filtering
	Support for stream based redirection
	Support flow based speed limit
	Support L2 to L4 packet filtering function, can match the first 80 bytes of the
	message, provide based on the source MAC address, destination MAC
ACLs	message, provide based on the source MAC address, destination MAC address, source IP address, destination IP address, IP protocol type,
ACLs	message, provide based on the source MAC address, destination MAC address, source IP address, destination IP address, IP protocol type, TCP/UDP port, TCP/UDP port range, VLAN and other definition ACL.
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	Support SSH 2.0 to provide secure passwords for user login.
	Support SSL to ensure data transmission security
	Support port isolation
	Support the speed limit function of ARP message
	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
	Support DHCP Client
DHCP	Support DHCP Snooping
DHCP	Suport DHCP Serve
	Suport DHCP Relay
	Support Console/AUX Modem/Telnet/SSH2.0 CLI command line
	configuration
	Support WEB network management (HTTPS)
	Support FTP, TFTP, Xmodem, SFTP file download management
Management	Support SNMP V1/V2C/V3
And	Support one bond reduction
Maintenance	Support NTP clock
Maintenance	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
System Requirements	Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or
	higher, Microsoft Internet Explorer10 or later;
	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.