

Product Datasheet

6-port Full Gigabit Managed Industrial PoE Switch

SUN-IPS33064PFM



SUN-IPS33064PFM è uno switch industriale PoE gestito full Gigabit L2+. Dispone di 4* porte RJ45 adattive 10/100/1000M e 2* porte SFP 100/1000M. Le porte 1-4 supportano lo standard IEEE802.3af/at PoE. Alimentazione POE a porta singola fino a 30W. Come dispositivo di alimentazione PoE, è in grado di rilevare e riconoscere automaticamente i dispositivi conformi allo standard e di fornire alimentazione attraverso il cavo di rete.

SUN-IPS33064PFM dispone di una funzione di gestione completa della rete L2+, supporta la gestione IPV4/ IPV6, l'inoltro di percorsi statici, il meccanismo di protezione della sicurezza, i criteri ACL/QoS e le VLAN ed è facile da gestire e mantenere. Supporto di più protocolli di ridondanza di rete STP/RSTP/MSTP (<50ms) e (ITU-T G.8032) ERPS (<20ms) per migliorare il backup dei collegamenti e l'affidabilità della rete. Quando la rete unidirezionale si guasta, la comunicazione può essere ripristinata rapidamente per garantire una comunicazione ininterrotta importante per le applicazioni. In base ai



requisiti effettivi dell'applicazione, è possibile configurare più servizi applicativi come la gestione dell'alimentazione PoE, il controllo del traffico delle porte, la divisione VLAN e SNMP attraverso la modalità di gestione della rete Web.

■ Gigabit access, SFP fiber port uplink

- ♦ Support non-blocking wire-speed forwarding.
- ♦ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.
- Support Gigabit Ethernet port and Gigabit SFP port combination, which enables users to flexibly build networking to meet the needs of various scenarios.

■ Intelligent PoE power supply

- ♦ IEEE802.3af/at PoE standard, without damaging non-PoE devices.
- ◇ PoE network management, realize PoE port power allocation, priority setting, port power status viewing, time scheduling, etc.
- 4*10/100/1000Base-T RJ45 ports, meeting the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.
- 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 and fast Ring function

- Support ERPS ring network and STP/RSTP/MSTP to eliminate layer 2 loops and realize link backup.
- Support IEEE802.1Q VLAN, Users can flexibly divide VLAN, Voice VLAN, and QinQ configuration according to their needs.
- Support static and dynamic aggregation to effectively increase link bandwidth, realize load balancing, link backup, and improve link reliability.
- ♦ Support QoS, port-based, 802.1P-based and DSCP-based three priority modes and four queue scheduling algorithms: Equ, SP, WRR, and SP+WRR.
- ♦ Support ACL to filter data packets by configuring matching rule processing operations



and time permissions, and provide flexible security access control policies.

♦ Support IGMP V1/V2/V3 multicast protocol, IGMP Snooping meets multi-terminal high-definition video surveillance and video conference access requirements.

Security

- ♦ Support port isolation.
- ♦ Support port broadcast storm suppression.
- ♦ Support IP+MAC+port+VLAN quadruple flexible combination binding function.
- Support 802.1X authentication to provide authentication functions for LAN computers, and control the authorization status of controlled ports according to the authentication results.

■ Stable and reliable

- ♦ CCC, CE, FCC, RoHS.
- ♦ Low power consumption, No fan, aluminum shell.
- ♦ The user-friendly panel can show the device status through the LED indicator of PWR, SYS, Link, L/A, PoE.

One-stop remote control and management

- Support CPU monitoring, memory monitoring, Ping detection, cable length detection.
- ♦ Support HTTPS, SSLV3, SSHV1/V2 and other encryption methods, making management more secure.
- Support RMON, system log, and port traffic statistics to facilitate network optimization and transformation.
- ♦ Support LLDP to facilitate the network management system to query and judge the communication status of the link.
- ♦ Support Web network management, CLI command line (Console, Telnet), SNMP (V1/V2/V3) and other diversified management and maintenance.



TECHNICAL SPECIFICATION

Model	SUN-IPS33064PFM		
Interface Characteristics			
Fixed Port	4*10/100/1000M PoE ports (Data/Power)		
	2*100/1000M uplink SFP slot ports (Data)		
rixed Fort	1*RS232 console port(115200,N,8,1)		
	2 set of V+, V- redundant DC power interface (5 Pin Phoenix terminal)		
Ethernet Port	Port 1-4 support 10/100/1000Base-T auto-sensing, full/half duplex		
Ethernet Port	MDI/MDI-X self-adaption		
Twisted Pair	10BASE-T: Cat3,4,5 UTP(≤100 meters)		
	100BASE-TX: Cat5 or later UTP(≤100 meters)		
Transmission	1000BASE-T: Cat5e or later UTP(≤100 meters)		
	Gigabit SFP optical fiber port, default no include optical modules		
SFP Slot Port	(optional single-mode / multi-mode, single fiber / dual fiber optical		
	module. LC)		
Optical Cable/	Multi-mode: 850nm/ 0-500M, Single-mode: 1310nm/ 0-40KM, 1550nm/		
Distance	0-120KM.		
Chip Parameter			
Network	L2+		
Management Type	LZT		
Natural Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX		
Network Protocol	IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x		
Forwarding Mode	Store and Forward(Full Wire Speed)		
Switching Capacity	16Gbps		
Forwarding	8.93Mpps		
Rate@64byte			
CPU	416MHz		
DRAM	1G		



FLASH	128M		
MAC	8K		
Buffer Memory	4M		
Jumbo Frame	9.6K		
LED Indicator	Power/ System: SYS (Green) , Network: Link (Yellow), Fiber port: L/A		
LED Indicator	(Green), PoE: PoE (Green)		
Decet Cuitele	Yes, (Press and hold for 10 seconds and release, the switch will restore		
Reset Switch	the factory settings)		
PoE & Power Supply			
PoE Port	Port 1 to 4, IEEE802.3af/at		
	Total power limit of PoE power supply		
PoE Management	PoE output power allocation, PoE on/off & af/at		
1 OE Management	PoE working status, Delay start of power supply		
	PoE output priority configuration, Scheduling of PoE operation and time		
Power Supply Pin	1/2(+) 3/6(-)		
Max Power Per Port	30W, IEEE 802.3 af/at		
Power Consumption	Standby<8W, Full load af<60W, at<120W		
Working Voltage	DC48-57V, 5 Pin industrial Phoenix terminal, support anti-reverse		
Working Voltage	protection.		
Power Supply	No, optional 48V/60W or 48V/120W industrial power supply		
Physical Parameter			
Operation TEMP /	-40~+80°C, 5%~90% RH Non condensing		
Humidity	-40° +60° C, 376° -9076 INTI NOIT CONDENSING		
Storage TEMP /	-40~+85°C, 5%~95% RH Non condensing		
Humidity	-40~+65 C, 5%~95% KH Non condensing		
Dimension (L*W*H)	145*134.5*47.5mm		
Net /Gross Weight	<0.6kg / <0.8kg		
Installation	Desktop, 35mm DIN rail		
Certification & Warra	anty		
Lightning Protection	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
	IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz)
	IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m ,1s to
	3s
	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 B
	IEC61000-6-2(Common Industrial Standard)
Marshaviani	IEC60068-2-6 (anti vibration)
Mechanical	IEC60068-2-27 (anti shock)
Properties	IEC60068-2-32 (free fall)
	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B,
Certification	RoHS
Network Manageme	nt Features
	Port green Ethernet Energy-saving setting
	Broadcast storm control based on port speed
Interface	IEEE802.3X (Full-duplex), Port temperature protection setting
	The speed limit of the message flow in the access port. The minimum
	particle size is 64Kbps.
Layer 3 Features	Support L2+ network management function, IPV4/IPV6 dual stack
	management
	Support L3 routing and forwarding, and support communication between
	different network segments and different VLAN
	amoroni hetwork segments and different VLAIN

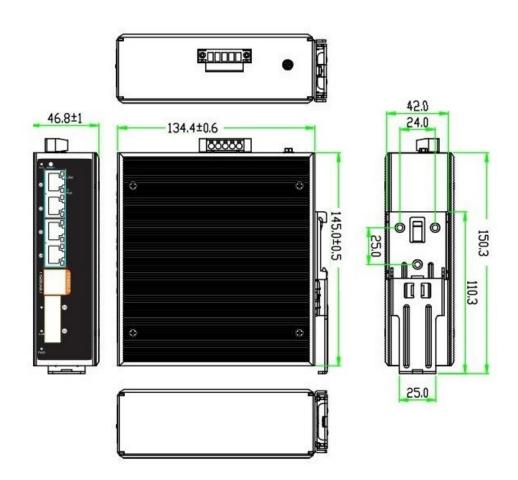


	Support static routing/default routing with a maximum of 128 entries	
	Support ARP protocol maximum entries 1024	
	Port configuration of Access, Trunk, Hybrid.	
VLAN	VLAN based on MAC, VLAN based on the protocol	
	Voice VLAN, 4K VLAN based on port, IEEE802.1q, QinQ configuration	
Port Aggregation	LACP, Static aggregation	
Fort Aggregation	Max 3 aggregation groups and 8 ports per group.	
Spanning Tree	STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)	
Industrial Ring	G.8032 (ERPS), Recovery time less than 20ms	
Network Protocol	250 Ring at most, Max 250 devices per ring.	
Multicast	MLD Snooping v1/v2, Multicast VLAN	
Multicast	IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out	
Port Mirroring	Bidirectional data mirroring based on port	
	Flow-based Rate Limiting	
	Flow-based Packet Filtering	
QoS	8*Output queues of each port	
Q0S	802.1p/DSCP priority mapping	
	Diff-Serv QoS,Priority Mark/Remark	
	Queue Scheduling Algorithm (SP, WRR, SP+WRR)	
	Port-based Issuing ACL, ACL based on port and VLAN	
4.01	L2 to L4 packet filtering, matching first 80 bytes message. Provide ACL	
ACL	based on MAC, Destination MAC address, IP Source, Destination IP, IP	
	Protocol Type, TCP/UDP Port, TCP/UDP Port Range, and VLAN, etc.	
	Mac black holes, IP source protection	
	IEEE802.1X & MAC address authentication	
	Broadcast storm control, Backup for host datum	
Security	SSH 2.0, SSL, Port isolation, ARP message speed limit	
	User hierarchical management and password protection	
	Anti-DoS attack, AAA & RADIUS & TACACS+ certification	
	IP-MAC-VLAN-Port binding, ARP inspection, MAC learning limit	
DHCP	DHCP Client, DHCP Snooping, DHCP Server, DHCP Relay	



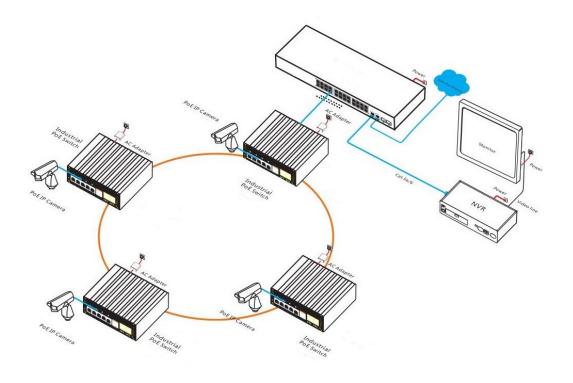
	One-key recovery
	Cable Diagnose, LLDP, SNMP V1/V2/V3
Management	NMS platform cluster management (LLDP+SNMP)
Management	Download & Management on FTP, TFTP, Xmodem, SFTP
	NTP, System work log, Ping Test, CPU instant utilization status view
	Web Management (HTTPS), Console/AUX Modem/Telnet/SSH2.0 CLI
	Category 5 Ethernet network cable
System	Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42
	or higher, Microsoft Internet Explorer10 or later;
	TCP/IP, network adapter, and network operating system (such as
	Microsoft Windows, Linux, or Mac OS X) installed on each computer in a
	network

DIMENSION





APPLICATION



ORDERING INFORMATION

Model	Description	Recommended Power Supply
SUN- IPS33064PFM	L2+ managed industrial PoE fiber switch with 4*10/100/1000M RJ45 ports and 2*100/1000M SFP ports. Port 1-4 can support IEEE 802.3 af/at PoE standard. It can support dual DC power input and DIN rail mounting.	60W/120W

Note: Industrial PoE switches do not include SFP optical modules and power supplies by default.



OPTICAL MODULE

Product	Model	Description	Unit
1.25G Optical Module	SUN-2630-G	Industrial SFP optical module, 1.25G, multi-mode dual fiber 850nm, transmission distance: 550m, LC interface, support DDM function, support hot plug and pull.	PC
	SUN-2632-G	Industrial SFP optical module, 1.25G, single-mode dual fiber 1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC
	SUN-2612-T- G	Industrial SFP optical module, 1.25G, single-mode single fiber TX1310nm/RX1550nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC
	SUN-2613-R- G	Industrial SFP optical module, 1.25G, single-mode single fiber TX1550nm/RX1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC
	SUN-2612-T- G-SC	Industrial SFP optical module, 1.25G, single-mode single fiber TX1310nm/RX1550nm, transmission distance: 20km, SC interface, support DDM function, support hot plug and pull.	PC
	SUN-2613-R- G-SC	Industrial SFP optical module, 1.25G, single-mode single fiber TX1550nm/RX1310nm, transmission distance: 20km, SC interface, support DDM function, support hot plug and pull.	PC
Power Module	SUN-2633	1.25G SFP optical module transfers to 10/100/1000M RJ45 port.	PC



POWER SUPPLY

Product	Model	Description	Unit
65W Desktop Power Adaptor	SUN-AP65-52	Desktop 65W single set of output power adapter Input Voltage: AC 100V~240V 50-60Hz, 1.1A Output Voltage: DC 52V 1.25A Operation Temperature: -20°C to +65°C	PC
110W Desktop Power Adaptor	SUN-AP110-52	Desktop 110W single set of output power adapter Input Voltage: AC 100V~240V 50-60Hz, 2.0A Output Voltage: DC 52V 2.0A Operation Temperature: -20°C to +65°C	PC
60W DIN Rail Industrial Power Supply	SUN-DP60-48	Din Rail 60W single set of output power supply Input Voltage: AC 100V~240V 50-60Hz,1.0A Output Voltage: DC 48V 1.25A Operation Temperature: -40°C to +70°C	PC
120W DIN Rail Industrial Power Supply	SUN-DP120-48	Din Rail 120W single set of output power supply Input Voltage: AC 100V~240V 50-60Hz,1.5A Output Voltage: DC 48V 2.5A Operation Temperature: -40°C to +70°C	PC

RELATED PRODUCT

Model	Description
SUN-	L2+ managed industrial PoE fiber switch with 4*10/100/1000M RJ45
IPS33084PFM	ports and 4*100/1000M SFP slot ports. Port 1-4 can support



	IEEE802.3af/at PoE standard. It can support dual DC power input
	and DIN rail mounting.
	L2+ managed industrial PoE fiber switch with 8*10/100/1000M RJ45
SUN-	ports and 2*100/1000M SFP slot ports. Port 1-8 can support
IPS33108PFM	IEEE802.3af/at PoE standard. It can support dual DC power input
	and DIN rail mounting.
	L2+ managed industrial PoE fiber switch with 8*10/100/1000M RJ45
SUN-	ports and 8*100/1000M SFP slot ports. Port 1-8 can support
IPS33168PFM	IEEE802.3af/at PoE standard. It can support dual DC power input
	and DIN rail mounting.
	L2+ managed industrial PoE fiber switch with 12*10/100/1000M RJ45
SUN-	ports and 4*100/1000M SFP slot ports. Port 1-8 can support
IPS33168PFM-4GF	IEEE802.3af/at PoE standard. It can support dual DC power input
	and DIN rail mounting.
	L2+ managed industrial PoE fiber switch with 12*10/100/1000M RJ45
SUN-	ports and 4*1/10G SFP+ slot ports. Port 1-8 can support
IPS36168PFM	IEEE802.3af/at PoE standard. It can support dual DC power input
	and DIN rail mounting.

SUNELL ITALIA STARK SOLUTION

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