

Product Datasheet

26-port Full Gigabit Managed PoE Switch

SUN-POE33026PFM



SUN-POE33026PFM è uno switch in fibra PoE gestito gigabit L2+. Dispone di 24* porte RJ45 10/100/1000Base-T e 2* porte SFP 100/1000Base-X in fibra. Le porte 1-24 supportano lo standard IEEE802.3af/at PoE. La potenza della singola porta PoE raggiunge i 30W. Come dispositivo di alimentazione PoE, è in grado di rilevare e riconoscere automaticamente le apparecchiature e di fornire l'alimentazione attraverso il cavo di rete.

SUN-POE33026PFM è dotato di gestione completa della rete L2+, supporta la gestione IPV4/IPV6, l'inoltro statico a velocità di linea completa, il sistema di protezione, i criteri ACL/QoS completi e le ricche funzioni VLAN. Supporta 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 una rete unidirezionale si guasta, la comunicazione può essere ripristinata rapidamente per garantire una comunicazione ininterrotta importante per le applicazioni. In base ai requisiti applicativi, 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, Gigabit 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

- ◇ IEEE 802.3af/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.
- ◇ 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.
- ◇ 24*10/100/1000Base-T RJ45 ports, meeting the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.

■ Strong business processing capability

- ◇ ERPS/STP/RSTP/MSTP.
- ◇ Static and dynamic aggregation.
- ◇ IGMP V1/V2 and IGMP Snooping.
- ◇ 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.

■ Security

- ◇ 802.1X authentication.
- ◇ Port isolation, Storm control.
- ◇ IP-MAC-VLAN-Port binding.

■ Stable and reliable

- ◇ CCC,CE, FCC, RoHS.
- ◇ Low power consumption, galvanized steel casing. The Fan active cooling.
- ◇ The user-friendly panel can show the device status through the LED indicator of PWR, Link, PoE.SUN
- ◇ Self-developed power supply, high redundancy design, providing a long term and stable PoE power output.

■ **Easy operation and maintenance management**

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

TECHNICAL SPECIFICATION

Model	SUN-POE33026PFM	SUN-POE33026PFM-at
Interface Characteristics		
Fixed Port	1*RS232 console port(115200,N,8,1) 2*100/1000Base-X uplink SFP ports(Data) 24*10/100/1000Base-T PoE ports (Data/Power)	
Ethernet Port	10/100/1000Base-T(X) auto-sensing,Full/half duplex MDI/MDI-X self-adaption	
Twisted Pair	10BASE-T: Cat3,4,5 UTP(≤100 meter)	
Transmission	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 no include optical modules (optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC)	

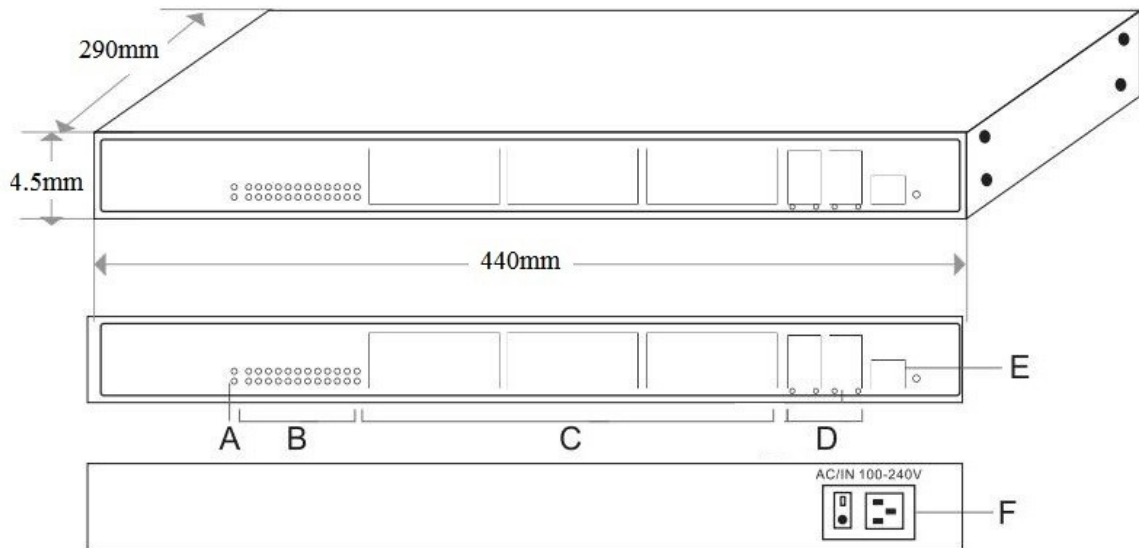
Optical Cable/ Distance	Multi-mode: 850nm /0-550M, Single-mode: 1310nm /0-40KM, 1550nm/ 0-120KM.
Chip Parameter	
Network Management Type	L2+
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x
Forwarding Mode	Store and Forward(Full Wire Speed)
Switching Capacity	256Gbps
Forwarding Rate@64byte	38.69Mpps
CPU	500MHz
DRAM	1G
FLASH	128M
MAC	8K
Buffer Memory	8M
Jumbo Frame	9.6K
LED Indicator	Power: PWR(Yellow), System: SYS(Yellow), Network: Link(Yellow), POE: PoE (Green), Fiber port: L/A(Green)
Reset Switch	Yes, press and hold the switch for 10 seconds and release it to restore the factory settings
PoE & Power Supply	
PoE Port	Port 1 to 24, IEEE802.3af/at
PoE Management	PoE working status Delay start of power supply PoE output priority configuration Scheduling of PoE operation and time Total power limit of PoE power supply PoE output power allocation, off/on&af/at
Power Supply Pin	Default 1/2 (+) 3/6 (-)

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:<22W, Full load:<600W
Power Supply	Built-in power supply, AC 100~240V 50-60Hz 5.0A	Built-in power supply, AC 100~240V 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	<4.4kg / <5.0kg	<4.6kg / <5.3kg
Installation	Desktop, 19 inch 1U cabinet	
Certification & Warranty		
Lightning Protection	Lightning protection: 4KV 8/20us, Protection level: IP30	
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B, RoHS	
Network Management Features		
Interface	<p>IEEE802.3X (Full-duplex)</p> <p>Port temperature protection setting</p> <p>Port green Ethernet Energy-saving setting</p> <p>Broadcast storm control based on port speed</p> <p>The speed limit of the message flow in the access port. The minimum particle size is 64Kbps.</p>	
Layer 3 Features	<p>IPV4/IPV6 static route/default route supports up to 128 entries</p> <p>L2+ network management, ARP protocol, maximum 1024 entries</p> <p>Layer 3 routing and forwarding, support communication between different network segments and different VLANs</p>	

VLAN	Voice VLAN, QinQ configuration, IEEE802.1q VLAN based on MAC, VLAN based on the protocol 4K VLAN based on port, Port configuration of Access, Trunk, Hybrid.
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)
Industrial Ring Network Protocol	G.8032 (ERPS), Recovery time less than 20ms 250Ring at most, Max 250 devices per ring.
Multicast	MLD Snooping v1/v2, Multicast VLAN IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out
Port Mirroring	Bidirectional data mirroring based on port
QoS	Diff-Serv QoS, Priority Mark/Remark Queue Scheduling Algorithm (SP, WRR, SP+WRR) Flow-based Rate Limiting, Flow-based Packet Filtering 8*Output queues of each port, 802.1p/DSCP priority mapping
ACL	Port-based Issuing ACL,ACL based on port and VLAN 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	IP-MAC-VLAN-Port binding ARP inspection,Anti-DoS attack AAA & RADIUS,MAC learning limit Mac black holes,IP source protection IEEE802.1X & MAC address authentication Broadcast storm control,Backup for host datum SSH 2.0,SSL,Port isolation,ARP message speed limit User hierarchical management and password protection
DHCP	DHCP Client, DHCP Snooping, DHCP Server, DHCP Relay
Management	CPU instant utilization status view Console/AUX Modem/Telnet/SSH2.0 CLI

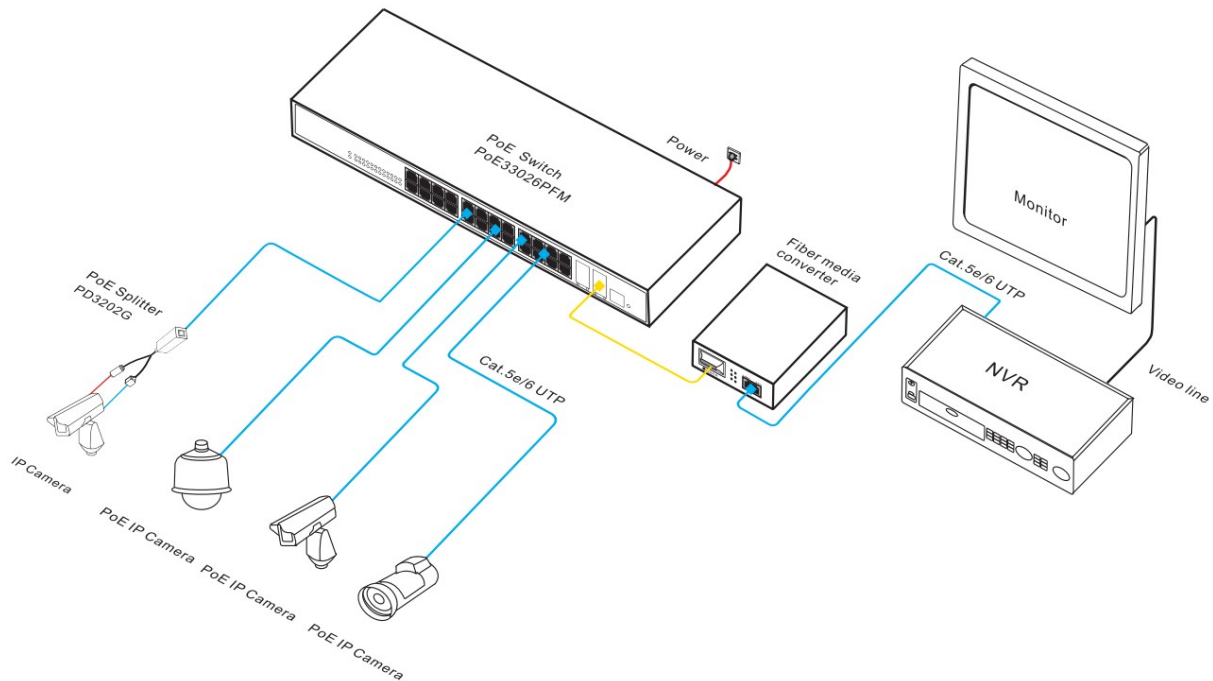
	<p>One-key recovery, Cable Diagnose, LLDP</p> <p>Web Management (HTTPS), NTP, System work log, Ping Test</p> <p>Download & Management on FTP, TFTP, Xmodem SFTP, SNMP</p> <p>V1/V2C/V3</p>
System	<p>Category 5 Ethernet network cable</p> <p>Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome</p> <p>V42 or higher, Microsoft Internet Explorer10 or later;</p> <p>TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on each computer in a network</p>

DIMENSION



- | | |
|------------------------------|--|
| A. Power indicator | B. PoE work indicator |
| C. 24*10/100/1000M PoE ports | D. 2*100/1000M SFP ports |
| E. Console port | F. Power input port AC100-240V,50/60Hz |

APPLICATION



ORDERING INFORMATION

Model	Description	Built-in Power Supply
SUN-POE33026PFM	L2+ managed PoE fiber switch with 24* 10/100/1000M PoE ports and 2*100/1000M SFP ports. Port 1-24 can support IEEE802.3af/at PoE standard. Built-in power supply.	400W
SUN-POE33026PFM-at		600W

Note: The SFP optical module is not included by default and needs to be purchased separately.

OPTICAL MODULE INFORMATION

Product	Model	Description	Unit
1.25G Optical Module	SUN-2630	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	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	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	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-SC	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-SC	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

RELATED PRODUCT

Model	Description
SUN-POE33028PFM	L2+ managed PoE fiber switch with 24*10/100/1000M PoE ports and 4*100/1000M SFP fiber ports. Port 1-24 can support IEEE802.3af/at PoE standard. Built-in 400W power supply.
SUN-POE36028PFM	L2+ managed PoE fiber switch with 24*10/100/1000M RJ45 ports and 4*1/10G SFP ports. Port 1-24 can support IEEE802.3af/at PoE standard. Built-in 400W power supply.
SUN-POE36036PFM	L2+ managed PoE fiber switch with 24*10/100/1000M RJ45 ports and 8*100/1000M SFP ports and 4*1/10G SFP+ ports. Port 1-24 can support IEEE802.3af/at PoE standard. Built-in 400W power supply.
SUN-POE36048PFM	L2+ managed PoE fiber switch with 48*10/100/1000M RJ45 ports and 4*1/10G SFP+ ports. Port 1-48 can support IEEE802.3af/at PoE standard. Built-in 600W power supply.
SUN-POE36448PFM	L2+ managed PoE fiber switch with 12*10/100/1000M RJ45 ports and 28*100/1000M SFP ports and 4*1/10G SFP+ ports. Port 1-8 can support IEEE802.3af/at PoE standard. Built-in 400W power supply.

SUNELL ITALIA STARK SOLUTION

Via 3° Strada n°36 Zona Industriale 95121 Catania (CT)

info@sunellitalia.net