

## Product Datasheet

# 12-port Full Gigabit Industrial PoE Switch

SUN-IPS33128PF



IPS33128PF è uno switch industriale in fibra PoE full gigabit. Dispone di 10\*10/100/1000Base-T porte RJ45 e 2\*1000Base-X porte uplink SFP. La porta 1-8 può supportare lo standard IEEE 802.3af/at PoE, alimentazione PoE a porta singola fino a 30W. Come dispositivo di alimentazione PoE, è in grado di rilevare e riconoscere automaticamente le apparecchiature di ricezione dell'alimentazione conformi allo standard e di fornire l'alimentazione attraverso il cavo di rete. Può alimentare dispositivi PoE come AP wireless, telecamere IP attraverso il cavo di rete e soddisfare l'ambiente di rete che necessita di alimentazione PoE ad alta densità.

### ● Gigabit Ethernet port access, uplink gigabit dual SFP port

- ◇ Uplink gigabit dual SFP fiber ports, easy to achieve high bandwidth and long-distance transmission.
- ◇ Dual SFP fiber ports can cascade, chain, compatible with SFP module connection.

### ■ Port lightning protection, wide voltage input

- ◇ Contact discharge 8KV, air discharge 15KV; port lightning protection common-mode 4KV, differential mode 2KV;
- ◇ Industrial dual power input.

◇ DC INPUT: 48V-57V, non-PoE DC INPUT: 12-48V.

### ■ Intelligent PoE power supply

- ◇ 8\*10/100/1000Base-T 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.

### ■ Stable and reliable

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

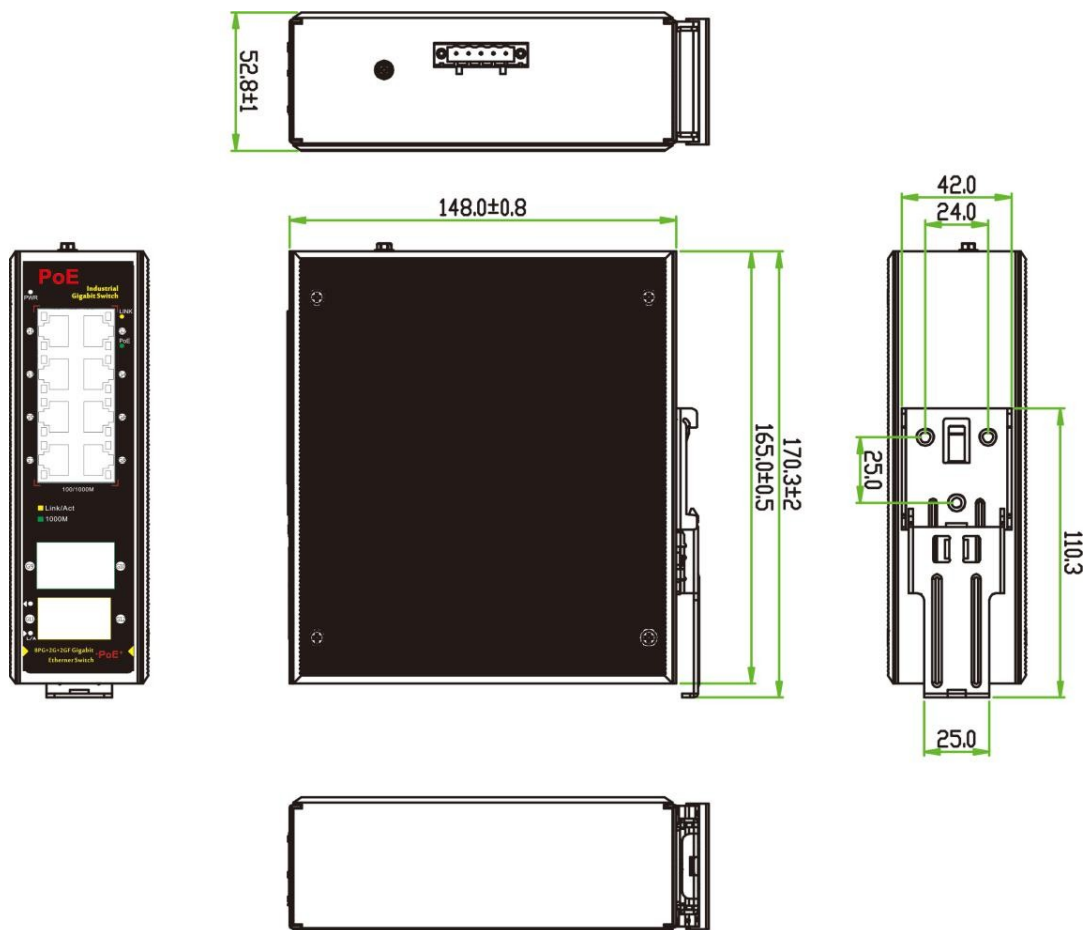
## TECHNICAL SPECIFICATION

Model	SUN-IPS33128PF	SUN-IPS33128PF-at
<b>Interface Characteristics</b>		
Fixed Port	8*10/100/1000Base-T PoE ports (Data/Power) 2*10/100/1000Base-T uplink RJ45 ports (Data) 2*1000Base-X uplink SFP fiber slot ports (Data) 2 sets of V+, V- redundant DC power port (5P Phoenix terminal)	
Ethernet Port	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)	
Fiber Port	Gigabit SFP optical fiber port, default matching optical modules (optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC)	
Optical Cable	Multimode: 850nm 0 ~ 550M, singlemode: 1310nm 0 ~ 40KM, 1550nm 0 ~ 120KM.	
<b>Chip Parameter</b>		
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	24Gbps	

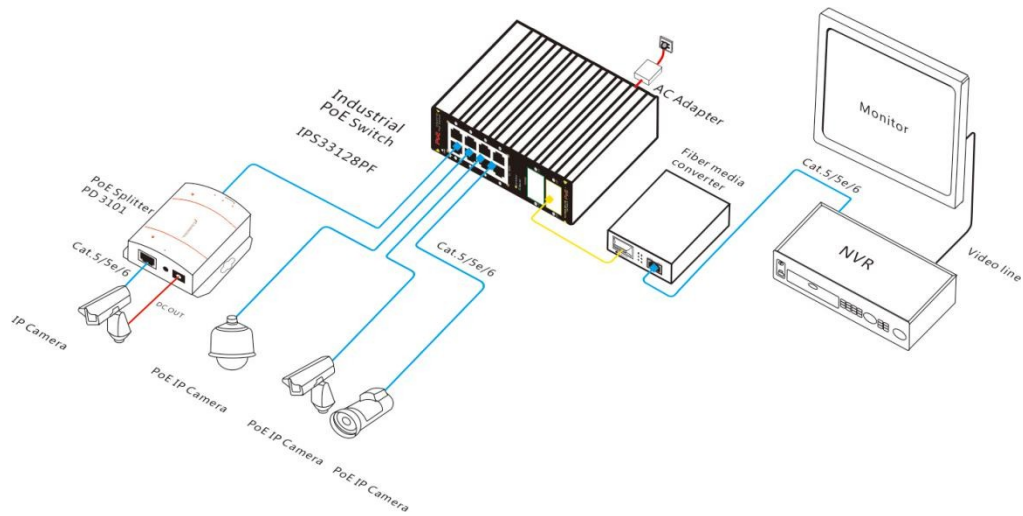
Forwarding Rate@64byte	17.86Mpps	
MAC	8K	
Buffer Memory	4M	
Jumbo Frames	9.2K	
LED Indicator	Power: PWR (green);Network :Link, Link/Act (yellow); PoE : PoE (green)	
<b>PoE &amp; Power</b>		
PoE Port	Port 1 to 8 IEEE802.3af/at @ POE	
Power Supply Pin	1/2 (+), 3/6 (-)	
Max Power Per Port	30W; IEEE802.3af/at	
Total PWR / Input Voltage	120W/48VDC	240W/48VDC
Power Consumption	Standby:<8W;Full load:<120W	Standby:<10W;Full load:<240W
Working Voltage	48-57VDC; 5P industrial phoenix terminal, anti-reverse protection.	
Power Supply	No, optional 48V/120W or 48V/240W industrial power supply	
<b>Physical Parameter</b>		
Operation TEMP / Humidity	-40~+80°C;5%~90% RH Non condensing	
Storage TEMP / Humidity	-40~+85°C;5%~95% RH Non condensing	
Dimension	165*148*54mm	
Net /Gross Weight	<1.0kg / <1.3kg	
Installation	Desktop, 35mm DIN rail	
<b>Certification &amp; Warranty</b>		
Lightning Protection / Protection Level	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 A IEC61000-6-2(Common Industrial Standard)
Mechanical Properties	IEC60068-2-6 (anti vibration),IEC60068-2-27 (anti shock),IEC60068-2-32 (free fall)
Certification	CCC;CE mark, commercial; CE/LVD EN60950;FCC Part 15 Class B;RoHS;

## DIMENSION



## APPLICATION



## ORDERING INFORMATION

Model	Description	Recommended power supply
SUN-IPS33128PF	Unmanaged industrial PoE fiber switch with 10*10/100/1000M RJ45 ports and 2*1000M uplink SFP slot ports, Port 1-8 can support IEEE802.3af/at PoE. Support DC dual power supply input and DIN rail mounting.	120W
SUN-IPS33128PF-at		240W

**Note:** Industrial PoE switch does not match the SFP optical module and power supply.

## OPTICAL MODULE INFORMATION

Product	Model	Description	Unit
1.25G Fiber 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-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-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.

## POWER SUPPLY SELECTION TABLE

Product	Model	Description	Unit
130W Desktop Power Adaptor	SUN-AP130-52	Desktop tape 130W single set of output power adapter; Input Voltage:AC 100V~240V 50-60Hz,2.3A Output Voltage:DC 52V 2.5A Operation Temperature:-20°C—+65°C	PC
250W Desktop Power Adaptor	SUN-AP250-52	Desktop tape 250W single set of output power adapter; Input Voltage:AC 100V~240V 50-60Hz,4.1A Output Voltage:DC 52V 4.8A Operation Temperature:-20°C—+65°C	PC
120W DIN Rail Industrial Power Supply	SUN-DP120-48	Din Rail type 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—+70°C	PC
240W DIN Rail Industrial Power Supply	SUN-DP240-48	Din Rail type 240W single set of output power supply; Input Voltage:AC 100V~240V 50-60Hz,3A Output Voltage:DC 48V 5A Operation Temperature:-40°C—+70°C	PC

## RELATED PRODUCT

Model	Description
SUN-IPS33021PF	Unmanaged industrial PoE fiber switch with 1*10/100/1000M RJ45 port and 1*1000M SFP slot port, Port 1 can support IEEE802.3af/at PoE. Support DC dual power supply input and DIN rail mounting.
SUN-IPS33032PF	Unmanaged industrial PoE fiber switch with 2*10/100/1000M RJ45 ports and 1*1000M SFP slot port, Port 1-2 can support IEEE802.3af/at PoE. Support DC dual power supply input and DIN rail mounting.
SUN-IPS33042PF	Unmanaged industrial PoE fiber switch with 2*10/100/1000M RJ45 ports and 2*1000M SFP slot ports, Port 1-2 can support IEEE802.3af/at PoE. Support DC dual power supply input and DIN rail mounting.
SUN-IPS33064PF	Unmanaged industrial PoE fiber switch with 4*10/100/1000M RJ45 ports and 2*1000M SFP slot ports, Port 1-4 can support IEEE802.3af/at PoE. Support DC dual power supply input and DIN rail mounting.
SUN-IPS33108PF	Unmanaged industrial PoE fiber switch with 8*10/100/1000M RJ45 ports and 2*1000M SFP slot ports, Port 1-8 can support IEEE802.3af/at PoE. Support DC dual power supply input and DIN rail mounting.

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