

## Product Datasheet

# 20-port Full Gigabit Unmanaged PoE Fiber Switch

**SUN-POE33020PF-AT**



SUN-POE33020PF-AT è uno switch in fibra PoE non gestito full gigabit. Dispone di 18\* porte RJ45 adattive 10/100/1000M e 2\* porte SFP 1000M. Le porte 1-16 possono supportare lo standard IEEE802.3af/at PoE. La potenza PoE di una singola porta raggiunge i 30W e la potenza massima di uscita PoE è di 400W. 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.

### ■ Full gigabit access

- ◇ 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 fiber 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.
- ◇ 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.

- ◇ 16\*10/100/1000Base-T RJ45 ports can support POE power to meet the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.

■ **Stable and reliable**

- ◇ CCC, CE, FCC, RoHS.
- ◇ The user-friendly panel can show the device status through the LED indicator of PWR, Link, PoE.
- ◇ Self-developed power supply, high redundancy design, providing a long term and stable PoE power output.
- ◇ Low power consumption, galvanized steel shell, with fan super heat dissipation to ensure stable operation of the product.
- ◇

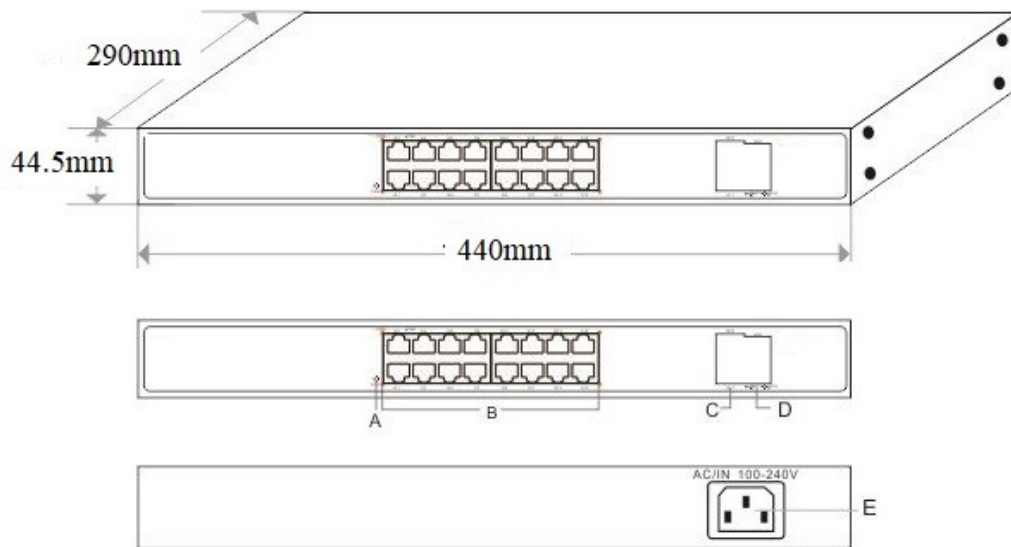
## TECHNICAL SPECIFICATION

Model	SUN-POE33020PF	SUN-POE33020PF-at
<b>Interface Characteristics</b>		
Fixed Port	16*10/100/1000Base-T PoE ports (Data /Power) 2*10/100/1000Base-T uplink RJ45 ports (Data) 2*1000Base-X uplink SFP slot ports (Data)	
Ethernet Port	Port 1-16 can support 10/100/1000Base-T auto-sensing, full/half duplex MDI/MDI-X	
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meters) 100BASE-TX: Cat5 or later UTP(≤100 meters) 1000BASE-T: Cat5e or later UTP(≤100 meters)	
SFP Slot Port	Gigabit SFP optical fiber port, default no include optical modules (optional order single-mode/ multi-mode, single fiber / dual fiber optical module. LC)	

Optical Cable/ Distance	Multi-mode:850nm/ 0-500M, Single-mode: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	56Gbps (Non-blocking)	
Forwarding Rate@64byte	29.76Mpps	
MAC	8K	
Buffer Memory	4M	
Jumbo Frame	9.6K	
LED Indicator	Power: PWR (Green), Network: Link, Link/Act (Yellow), PoE: PoE(Green), Fiber port: L/A (Green), Speed: SPD(Green)	
Reset Switch	Yes, One-button factory reset	
<b>PoE &amp; Power Supply</b>		
PoE Port	Port 1 to 16	
Power Supply Pin	1/2(+) 3/6 (-)	
Max Power Per Port	30W, IEEE802.3af/at	
Total PWR / Input Voltage	250W (AC100-240V)	400W (AC100-240V)
Power Consumption	Standby<15W, Full Load<240W	Standby<16W, Full Load<380W
Power Supply	Built-in power supply AC100~240V 50-60Hz 4.1A	Built-in power supply AC100~240V 50-60Hz 5.0A
<b>Physical Parameter</b>		
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	

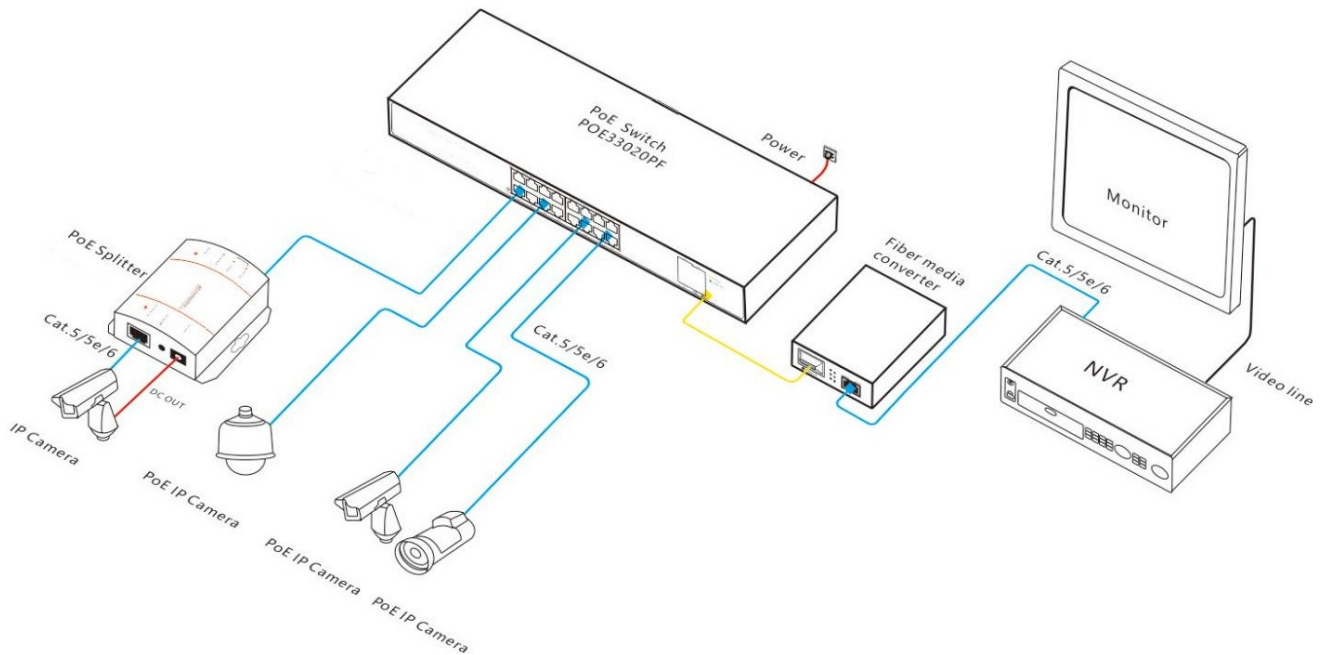
Net /Gross Weight	<3.3kg /<4.0kg	<3.6kg /<4.5kg
Installation	Desktop, wall-mount, 19" 1U rack-mount	
<b>Certification &amp; Warranty</b>		
Lightning Protection	Lightning protection: 4KV 8/20us, Protection level: IP30	
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B, RoHS	

## DIMENSION



- A. Working indicator
- B. 16\*10/100/1000M PoE ports
- C. 2\*10/00/1000M RJ45 ports
- D. 2\*1000M SFP ports
- E. Power input port AC100-240V, 50/60Hz

## APPLICATION



## ORDERING INFORMATION

Model	Description	Built-in Power Supply
SUN-POE33020PF	Unmanaged PoE fiber switch with 18*10/100/1000M RJ45 ports and 2*1000M uplink SFP ports. Port 1-16 can support IEEE802.3af/at PoE standard. Support 19" 1U rack-mount installation.	250W
SUN-POE33020PF-at		400W

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

## OPTICAL MODULE

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

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