Product Datasheet

12-port Gigabit PoE Switch

(ONV-POE33128PF)

OVERVIEW

The ONV-POE33128PF is a Gigabit PoE switch independently developed by ONV. It has 10*10/100/1000M adaptive RJ45 ports and 2*1000M SFP fiber ports. Port 1-8 can support IEEE 802.3 af/at PoE standard, and the single-port PoE power reaches 30W. As a PoE power supply device, it can automatically detect and identify the power-receiving devices that meet the standard and power them through the network cable. It can power wireless AP, IP camera, IP phone, visual intelligent building intercom, and other PoE terminal devices through the network cable to meet the network environment that requires a high-density PoE power supply. It is suitable for hotels, campuses, parks, scenic spots, supermarkets, factory dormitories, and small and medium-sized enterprises to build economical and efficient networks. Unmanaged mode, plug and play, no configuration, simple and convenient to use.

FEATURE

■ **Gigabit access, uplink SFP fiber port**

◇ Support non-blocking wire-speed forwarding.

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◇ Support full-duplex based on IEEE 802.3x and half-duplex based on backpressure.

◇ Support Gigabit RJ45 port and uplink SFP fiber port combination, which enables users to flexibly build networking to meet the needs of various scenarios.

■ **Smart PoE power supply**

◇ Comply with IEEE 802.3 af/at PoE standard, automatically identify PoE devices for power supply, and not damage 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.

◇ 8*10/100/1000Base-T RJ45 ports support PoE power to meet the PoE power supply needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.

■ **Stable and reliable**

◇ CCC, CE, FCC, RoHS.

◇ Plug and play, no configuration, simple and convenient.

◇ Self-developed power supply, high redundancy, providing a long-term and stable PoE power output.

◇ The user-friendly panel can show the device status through the LED indicator of PWR, Link, L/A, and PoE.

◇ Low power consumption, with fan, galvanized steel metal housing, and excellent heat dissipation to ensure the stable operation of the switch.

TECHNICAL SPECIFICATION

Model	ONV-POE33128PF	ONV-POE33128PF-at
Interface Characteristics		
Fixed Port	2*1000Base-X uplink SFP fiber ports (Data) 2*10/100/1000Base-T uplink RJ45 ports (Data) 8*10/100/1000Base-T PoE ports (Data /Power)	
Ethernet Port	Port 1-10 can support 10/100/1000Base-T(X) auto-sensing, full/ half	

	duplex MDI/ MDI-X self-adaption
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)
Optical Fiber Port	Gigabit optical fiber interface, default no include optical module (optional 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 Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X, IEEE 802.3x
Forwarding Mode	Store and Forward (Full wire speed)
Switching Capacity	24Gbps (non-blocking)
Forwarding Rate@64byte	17.86Mpps
MAC	4K
Buffer Memory	4M
Jumbo Frame	9.6K
LED Indicator	Power: PWR (Green), Network: Link/Act (Yellow), PoE: PoE (Green), Fiber port: L/A (Green), Rate: 1000M (Green)

PoE& Power Supply

PoE Port	Port 1-8	
Power Supply Pin	1/2(+) 3/6 (-)	
Max Power Per Port	30W, IEEE 802.3 af/at	
Total PWR/ Input Voltage	130W/ (AC100-240V)	250W/ (AC100-240V)
Power Consumption	Standby<8W, Full Load<120W	Standby<10W, Full Load<240W
Power Supply	Built-in power supply, AC100~240V 50-60Hz, 2.3A	Built-in power supply, AC100~240V 50-60Hz, 4.1A

Physical Parameter

Operation Temp/ Humidity	-20°C~+55°C, 5%~90% RH non condensing

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Storage Temp/ Humidity	-40°C~+75°C, 5%~95% RH non condensing	
Dimension (L*W*H)	270*181*44.5mm	
Net /Gross Weight	1.3kg/ 1.8kg	1.5kg/ 2.0kg
Installation	Desktop, 1U/19" 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, RoHS	
Warranty	3 years, lifelong maintenance.	

DIMENSION
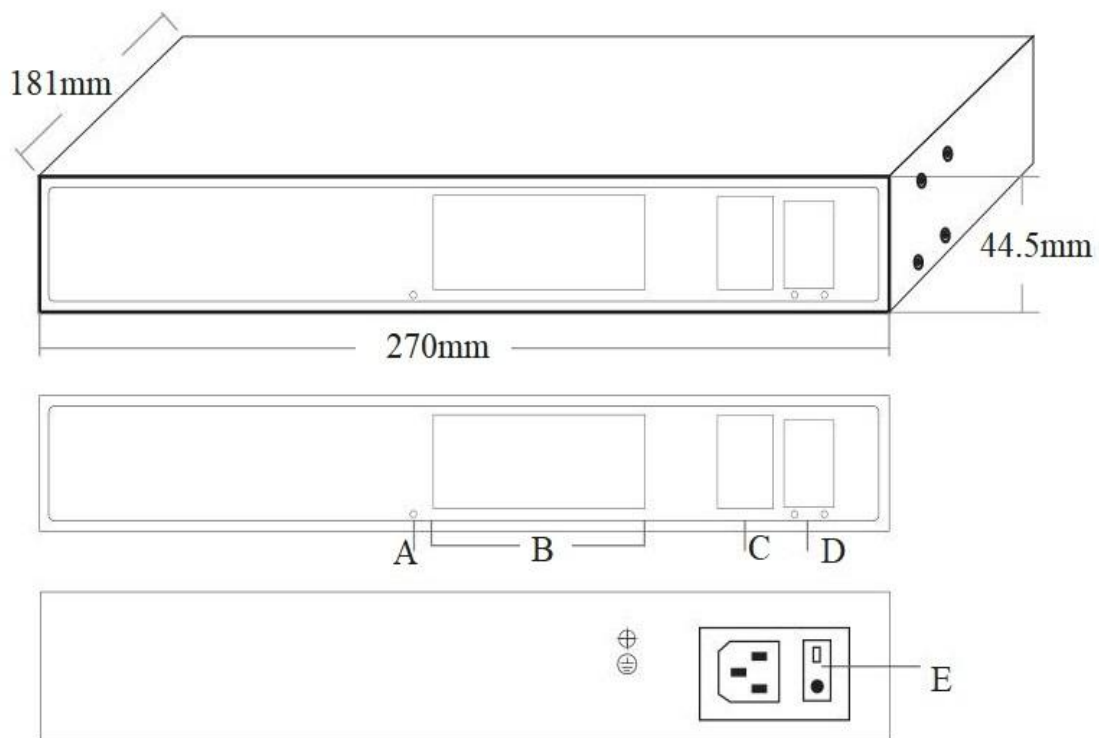
A. Working indicator   B. 8*10/100/1000M PoE ports
C. 2*10/100/1000M uplink RJ45 ports   D. 2*1000M uplink SFP fiber ports
E. Power input port AC100-240V, 50/60Hz

APPLICATION
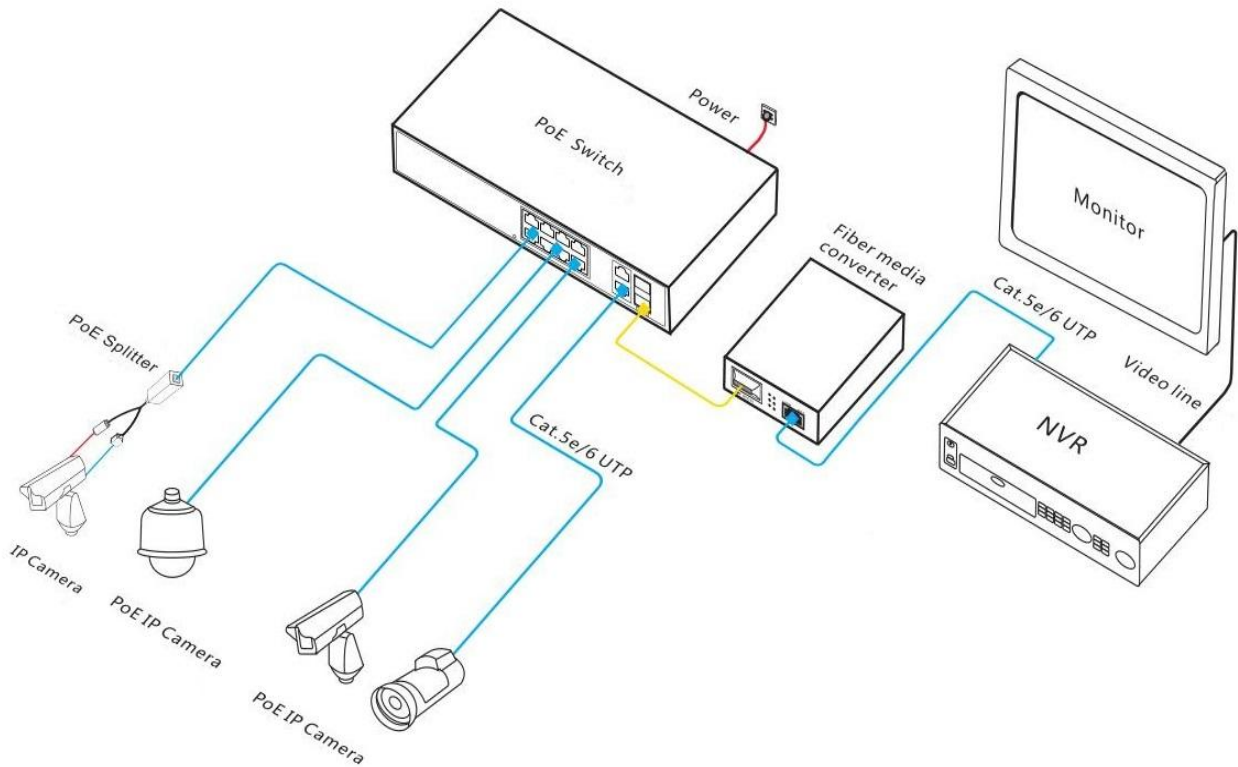
ORDERING INFORMATION

Model	Description	Built-in Power Supply
ONV-POE33128PF	Unmanaged PoE switch with 10*10/100/1000M RJ45 ports and 2*1000M uplink SFP fiber ports. Port 1-8 can support IEEE 802.3 af/at PoE standard. It built-in power supply and 1U/19" cabinet installation.	130W
ONV-POE33128PF-at		250W
Note: The optical module is not included and needs to be purchased.		

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PACKING LIST

Packing List	Content	Qty	Unit
	12-port Gigabit PoE switch	1	Set
	AC Power Cable	1	PC
	Mounting Kits (Hanging Ear)	1	Set
	User Guide	1	PC
	Warranty Card and Certificate of Conformity	1	PC

OPTICAL MODULE

Product	Model	Description	Unit
1.25G Optical Module	2630	SFP optical module, 1.25G multi-mode dual fiber 850nm, transmission distance: 550m, LC interface. support DDM function and hot plugging.	PC
	2632	SFP optical module, 1.25G single-mode dual fiber 1310nm, transmission distance: 20km, LC interface. support DDM function and hot plugging.	PC
	2612-T	SFP optical module, 1.25G single-mode single fiber TX1310nm/ RX1550nm, transmission distance: 20km, LC interface. support DDM function and hot plugging.	PC
	2613-R	SFP optical module, 1.25G single-mode single fiber TX1550nm/ RX1310nm, transmission distance: 20km, LC interface. support DDM function and hot plugging.	PC
	2612-T-SC	SFP optical module, 1.25G single-mode single fiber TX1310nm/ RX1550nm, transmission distance: 20km, SC interface. support DDM function and hot plugging.	PC
	2613-R-SC	SFP optical module, 1.25G single-mode single fiber TX1550nm/ RX1310nm, transmission distance: 20km, SC interface. support	PC

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		DDM function and hot plugging.	
Power Module	2633	1.25G SFP optical module transfers to 10/100/1000M RJ45 port.	PC

CONTACT US

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