

Product Datasheet

9-port 2.5G PoE Switch

(ONV-POE57008PF)



OVERVIEW

The ONV-POE57008PF is a 2.5G PoE fiber switch independently developed by ONV. It has 8*10/100/1000/2500Base-T adaptive RJ45 ports and 1*1/10G SFP+ fiber port. Port 1-8 can support the IEEE 802.3 af/at PoE standard, and the single-port max PoE power is 30W. As a PoE power supply device, it can automatically detect and identify powered devices that meet standards and power them through network cables. It can power PoE terminal equipment such as wireless AP (WIFI6/WIFI7), IP cameras, Internet telephones, video access control intercoms, etc., through network cables to meet the network environment that requires a high-density PoE power supply. It is suitable for hotels, campuses, factories, parks, supermarkets, and small and medium-sized enterprises to establish cost-effective networks.

FEATURE

- **2.5G access, uplink 1/10G SFP+ fiber port**
- ◇ Support non-blocking wire-speed forwarding.

- ◇ Support full-duplex based on IEEE 802.3x and half-duplex based on Backpressure.
- ◇ Support 2.5G RJ45 port and 1/10G 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.
- ◇ 8*10/100/1000/2500Base-T RJ45 port support PoE power, meeting the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.
- ◇ The PoE port supports the priority mechanism. When the remaining power is insufficient, the power of the high-priority port is given priority to avoid overloading of the device.

■ Stable and reliable

- ◇ CCC, CE, FCC, RoHS.
- ◇ 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, and PoE.
- ◇ Low power consumption, no fan, galvanized steel metal housing, and excellent heat dissipation to ensure the stable operation of the switch.

TECHNICAL SPECIFICATION

Model	ONV-POE57008PF	ONV-POE57008PF-at
Interface Characteristics		
Fixed Port	1*1/10G uplink SFP+ fiber port (Data) 8*10/100/1000/2500Base-T PoE ports (Data/ Power)	
Ethernet Port	Port 1-8 can support 10/100/1000/2500Base-T 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)	
	2500BASE-T: Cat6a or later UTP (≤100 meters)	
Optical Fiber Port	1/10G SFP+ optical fiber port, 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 802.3be 2.5GBase-T, IEEE 802.3ae 10GBase-SR/LR, IEEE 802.3x	
Forwarding Mode	Store and forward (Full wire speed)	
Switching Capacity	36Gbps (non-blocking)	
Forwarding Rate@64byte	44.64Mpps	
MAC	4K	
Buffer Memory	8M	
Jumbo Frame	12K	
LED Indicator	Power: PWR (Green), PoE: PoE (Green), Network: Link (Yellow), Fiber port: L/A (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<13W, full load<120W	Standby<15W, full load<240W
Power Supply	Built-in power supply, AC100-240V 50-60Hz, 2.3A	Built-in power supply, AC100-240V 50-60Hz, 4.0A
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)	270*181*44.5mm	
Net /Gross Weight	1.3kg/ 1.8kg	1.5kg/ 2.0kg
Installation	Desktop, 1U/19” cabinet	
Certification& Warranty		
Lightning Protection	Protection level: IP30, Lightning protection: 4KV 8/20us	
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15, RoHS	
Warranty	3 years, lifelong maintenance.	

DIMENSION

APPLICATION

ORDERING INFORMATION

Model	Description	Built-in Power Supply
ONV-POE57008PF	Unmanaged PoE switch with 8*10/100/1000/2500M RJ45 ports and 1*1/10G uplink SFP+ fiber port. Port 1-8 can support IEEE 802.3 af/at PoE standard. Built-in power supply.	130W
ONV-POE57008PF-at		250W

Note: The optical module is not included and needs to be purchased.

PACKING LIST

	Content	Qty	Unit
Packing List	9-port 2.5G PoE switch	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	Optical module, 1.25G multi-mode dual fiber 850nm, transmission distance: 550m, LC interface. supports DDM function and hot plugging.	PC
	2632	Optical module, 1.25G single-mode dual fiber 1310nm, transmission distance: 20km, LC interface. supports DDM function and hot plugging.	PC
	2612-T	Optical module, 1.25G single-mode single fiber TX1310nm/ RX1550nm, transmission distance: 20km, LC interface. supports DDM function and hot plugging.	PC
	2613-R	Optical module, 1.25G single-mode single fiber TX1550nm/ RX1310nm, transmission distance: 20km, LC interface. supports DDM function and hot plugging.	PC
	2612-T-SC	Optical module, 1.25G single-mode single fiber TX1310nm/ RX1550nm, transmission distance: 20km, SC interface. supports DDM function and hot plugging.	PC
	2613-R-SC	Optical module, 1.25G single-mode single fiber TX1550nm/ RX1310nm, transmission distance: 20km, SC interface. supports DDM function and hot plugging.	PC
Power Module	2633	1.25G optical module transfers to 10/100/1000M RJ45 port.	PC
10G Optical Module	6630	SFP+ optical module, 10G multi-mode dual fiber 850nm, transmission distance: 300m, LC interface. supports DDM function and hot plugging.	PC
	7832	SFP+ optical module, 10G single-mode dual fiber 1310nm, transmission distance: 20km, LC interface. supports DDM function and hot plugging.	PC

	7832-33	SFP+ optical module, 10G single-mode single fiber TX1330nm/ RX1270nm, transmission distance: 20km, LC interface. supports DDM function and hot plugging.	PC
	7832-27	SFP+ optical module, 10G single-mode single fiber TX1270nm/ RX1330nm, transmission distance: 20km, LC interface. supports DDM function and hot plugging.	PC

CONTACT US



Optical Network Video Technologies (Shenzhen) Co., Ltd.

Tel: 0086-755-33376606

Fax: 0086-755-33376608

WeChat: ONV-PoE-IoT

Email: onv@onv.com.cn

Skype: onv@onv.com.cn

Website: www.onvcom.com

Headquarter Address: Room 1003, Block D, Terra Building, Futian District, Shenzhen

Factory Address: Building B3, Galaxy Artificial Intelligence Industrial Park, No. 333,

Zhongkai 6th Road, Chenjiang Street, Zhongkai High-tech Zone, Huizhou

