Product Datasheet

9-Port 10/100M AIPoE Switch

(ONV-POE31008PLD)

OVERVIEW

ONV-POE31008PLD is an unmanaged AI PoE switch. It has 8*10/100Base-TX PoE ports and 1* 10/100Base-TX uplink RJ45 port. Port 1-8 can support IEEE 802.3af/at PoE standard , single-port PoE power up to 30W, The maximum PoE output power of the host is 110W. Port 1-8 can support the watchdog function. When the port communication failure corresponds to the port POE will automatically restart, self-recover network communication, reducing manual intervention and maintenance. As a PoE power supply device, it can automatically detect and recognize the power receiving equipment that meets the standard and supply power through the network cable. It can supply power to POE terminal equipment such as wireless AP, webcam, VoIP, video access control, etc. through the network cable, to meet the network environment that needs high-density PoE power supply. It is suitable for hotels, campuses, parks, banks, hospitals, factories, small and medium-sized enterprises form a cost-effective network.

Unmanaged mode, plug, and play, no configuration, easy to use.
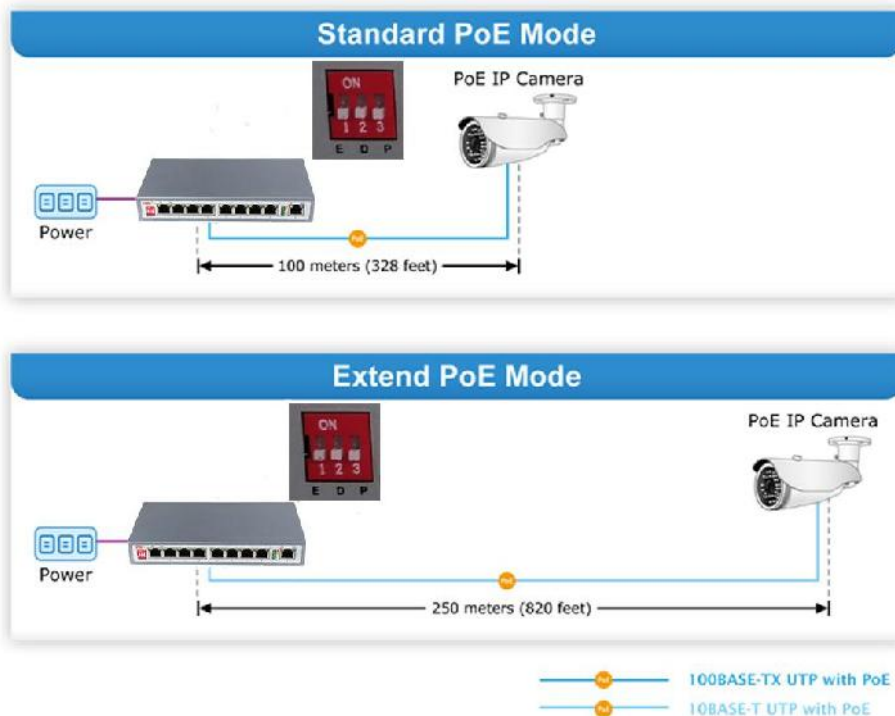
FEATURE

■ **10/100Mbps Ethernet access**

◇ 9*10/100Base-TX RJ45 ports allow users to flexibly network to meet the networking requirements of various scenarios.

◇ Support non-blocking wire-speed forwarding.

◇ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.
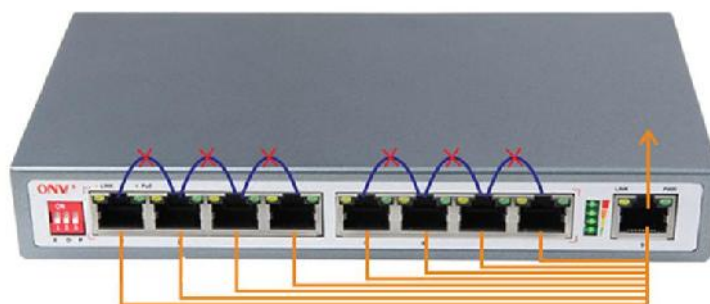
■ **Intelligent PoE power supply**

◇ 8*10/100Base-TX PoE 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.

◇ 8*10/100Base-TX PoE ports can support the watchdog function, real-time detection of data communication status.

■ **Innovative function**

◇ long-distance transmission and VLAN mode (E): When the switch status is "ON" (default OFF), Port 1-8 rate is 10M/250m transmission, the port physical VLAN isolated, broadcast storm, the transmission distance can up to 250m; solve the problem of poor transmission caused by line aging.

◇ AI self-healing mode (D): When the switch status is "ON" (default OFF), port 1-8 can support the watchdog function and automatically detects the data communication status in real-time.

◇ Real-time power and power priority mode (P): When the switch status is "ON" (default OFF), the POE real-time power grading indicator lights up, quickly understanding the power consumption of the host, and enabling the port priority function to ensure the port 1 power output.
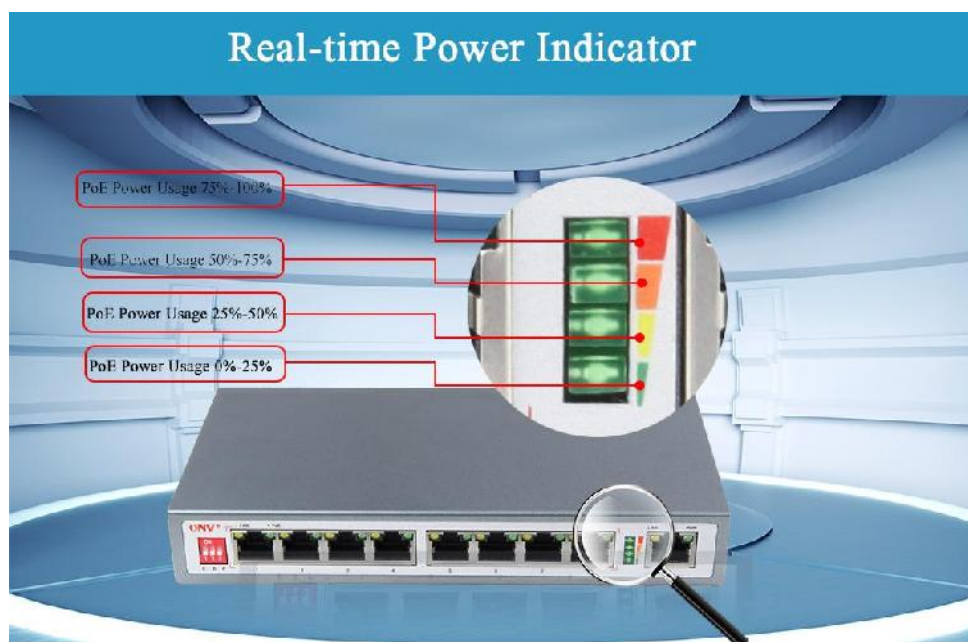
Standard PoE Mode

PoE IP Camera

Power

100 meters (328 feet)

Extend PoE Mode

PoE IP Camera

Power

250 meters (820 feet)

100BASE-TX UTP with PoE
10BASE-T UTP with PoE

Extend network communication distance and PoE power supply distance.

Suppress network broadcast storm, Prevent network viruses and attacks.
Improve port cache utilization

■ **Stable and reliable**

◇ Low power consumption and low noise, No fan, galvanized steel shell.

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

◇ CCC,CE, FCC, RoHS.

◇ Plug and play, no configuration, easy to maintain.

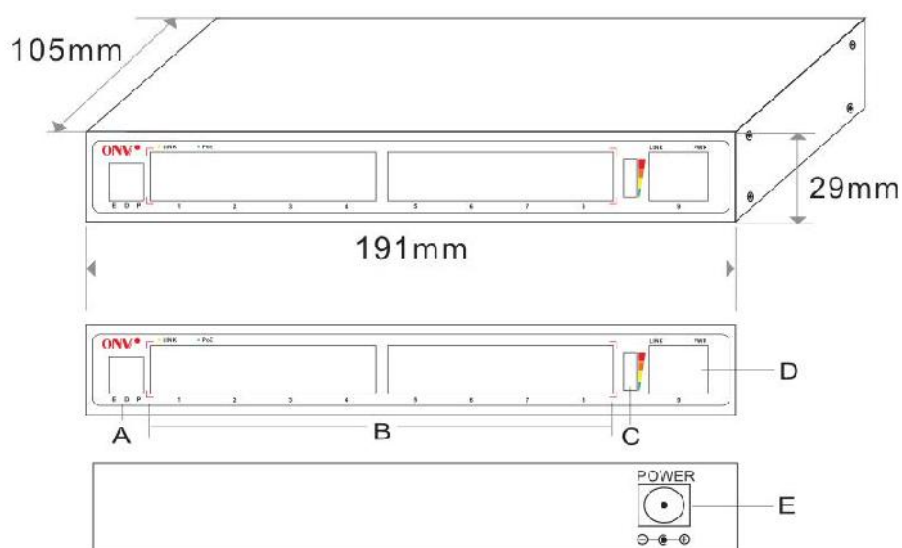◇ The user-friendly panel, it can show the device status through the LED indicator of P, Link, PoE.

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Real-time Power Indicator

PoE Power Usage 75%-100%
PoE Power Usage 50%-75%
PoE Power Usage 25%-50%
PoE Power Usage 0%-25%

TECHNICAL SPECIFICATION

Model	ONV-POE31008PLD	ONV-POE31008PLD-at
Interface Characteristics		
Fixed Port	8*10/100Base-TX PoE ports (Data/Power) 1*10/100Base-TX uplink RJ45 port (Data)	
Ethernet Port	Port 1-9 support 10/100 Base-T(X) auto-sensing, full/half duplex MDI/MDI-X self-adaption	
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤250 meter) 100BASE-TX: Cat5 or later UTP(≤100 meter)	
Function Switch	E is the "ON" state, port 1-8 can support long-distance transmission 10M/250m and VLAN transmission mode; when "OFF", 100 meters transmission.	
	D is the "ON" state, port 1-8 can support AI self-healing mode; when "OFF", no communication self-healing function.	
	P is the "ON" state, POE outputs total power and priority indication	

	mode; when "OFF", no power indication function.

Chip Parameter

Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T IEEE802.3u 100Base-TX, IEEE802.3x
Forwarding Mode	Store and Forward(Full Wire Speed)
Switching Capacity	1.8Gbps
Forwarding Rate@64byte	1.34Mpps
MAC	2K
Buffer Memory	1.25M
Jumbo Frame	1632byte
LED Indicator	Power: PWR (green), Network: Link (yellow), POE: PoE (green), POE power: P≤25% (green block), 25%<P≤50% (yellow block), 50%<P≤75% (orange block), P>75%(red block)

PoE & Power

PoE Port	Port 1 to 8 IEEE802.3af/at @ POE	
Power Supply Pin	Defaul 1/2 (+), 3/6 (-), optional 4/5(+), 7/8(-)	
Max Power Per Port	30W; IEEE802.3af/at	
Total PWR / Input Voltage	110W/ (DC52V)	250W/ (DC52V)
Power Consumption	Standby<5W, Full load<110W	Standby<7W, Full load<240W
Power Supply	External power adapter, AC100~240V 50-60Hz 2.0A	External power adapter, AC100~240V 50-60Hz 4.1A

Physical Parameter

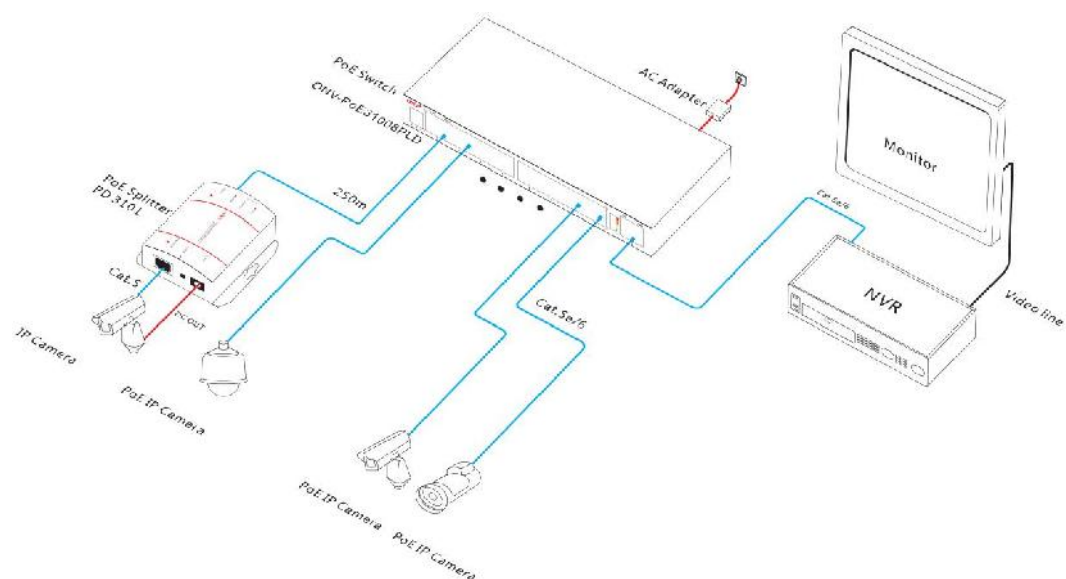|	
Operation TEMP / Humidity	-20~+55°C;5%~90% RH Non condensing
Storage TEMP / Humidity	-40~+75°C;5%~95% RH Non condensing

Dimension (L*W*H)	191*105*29mm	
Net /Gross Weight	<0.5kg / <1.5kg	<0.6kg / <1.2kg
Installation	Desktop.Wall-mounted	
Certification & Warranty		
Lightning protection / protection level	Lightning protection: 4KV 8/20us; Protection level: IP30	
Certification	CCC, CE mark, commercial; CE/LVD EN60950, FCC Part 15 Class B, RoHS	
Warranty	3 years, lifelong maintenance.	

DIMENSION

A. Functional switch   B. 8* PoE ports
C. Power indicator   D. 1*10/100M Uplink RJ45 port
E. Power input port DC48V

APPLICATION

ORDERING INFORMATION

Model	Description
ONV-POE31008PLD	AI PoE switch with 8*10/100M PoE port and 1*10/100M uplink RJ45 port. Port 1-8 can support IEEE 802.3af/at PoE standard. Adjust function switch, port 1-8 can support VLAN isolation, 10M/250m transmission, AI self-healing, power indication, and power supply priority, External 110W power supply.
ONV-POE31008PLD-at	AI PoE switch with 8*10/100M PoE port and 1*10/100M uplink RJ45 port. Port 1-8 can support IEEE 802.3af/at PoE standard. Adjust function switch, port 1-8 can support VLAN isolation, 10M/250m transmission, AI self-healing, power indication, and power supply priority, External 250W power supply.

PACKING LIST

	CONTENT	QTY	UNIT
PACKING LIST	9-port 10/100M AI PoE switch	1	SET
	AC Power Cable+ Power Adapter	1	SET
	Mounting Kits	1	SET
	User Guide	1	PC
	Warranty Card	1	PC