#### **Product Datasheet**

# 26-Port Gigabit Uplink Al PoE Switch

(ONV-H1024PLD)



#### **OVERVIEW**

ONV-H1024PLD is an unmanaged AI PoE switch independently developed by ONV. It has 24\*10/100M PoE ports and 2\*10/100/1000M uplink RJ45 ports and 1\*1000Base-X SFP fiber port (combo port). Port 1-24 can support IEEE802.3af/at standard PoE power supply, and single port PoE power reaches 30W. The maximum PoE output power is 250W. Port 1-24 can support the PoE 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 model, plug and play, no configuration, easy to use.

#### **FEATURE**

#### ■ 10/100Mbps access, gigabit TP/SFP uplink

- ♦ 24\*10/100M PoE ports and 2\*10/100/1000M RJ45 ports and 1\*1000M combo port, which is convenient for users to flexibly network to meet various networking needs.
- Support non-blocking wire-speed forwarding.
- ♦ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.

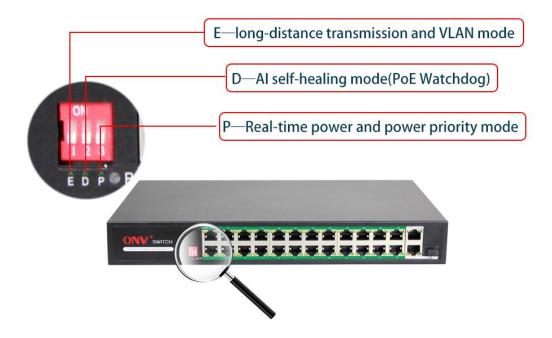
#### ■ Smart PoE power supply function

- 24\*10/100Base-TX RJ45 ports support POE, meeting the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.
- ♦ 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.
- 24\*10/100Base-TX PoE ports can support the watchdog function to automatically detect the
  data communication status in real-time. When the port communication fails, the corresponding
  port POE will automatically restart to repair the network communication, eliminating the need
  for manual maintenance.

#### Innovative function

- ◇ long-distance transmission and VLAN mode (E): When the switch status is "ON" (default OFF), Port 1-24 physical VLAN isolation is enabled, suppressing broadcast storms and improving network performance, and port 17-24 rate is reduced to 10M. The use of the existing twisted pair can break through the transmission limit of 100m of twisted pairs, and the transmission distance can reach 250m. On the other hand, it can solve the problem of poor transmission caused by line aging.
- ♦ Al self-healing mode (D): When the switch status is "ON" (default OFF), port 1-24 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.



#### ■ Stable and reliable

- ♦ CCC,CE, FCC, RoHS.
- ♦ Support desktop and 1U/19 inch cabinet installation.
- ♦ Plug and play, no configuration, simple and convenient.
- ♦ Low power consumption, galvanized steel casing, The fan active cooling.
- Self-developed power supply, high redundancy design, 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.

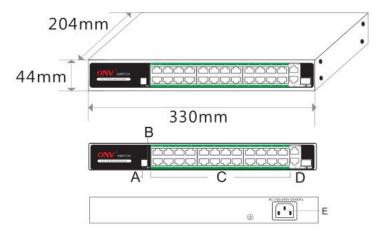
# **TECHNICAL SPECIFICATION**

Model	ONV-H1016PLD	ONV-H1016PLD ONV-H1024PLD			
Interface Characteristics					
	16*10/100Base-TX PoE ports	24*10/100Base-TX PoE ports			
	(Data/Power)	(Data/Power)			
Fixed Port	2*10/100/1000Base-T uplink RJ45	2*10/100/1000Base-T uplink RJ45			
Tixeu Foit	ports (Data)	ports (Data)			
	1*1000Base-X SFP fiber port	1*1000Base-X SFP fiber port			
	(Data) (combo port)	(Data) (combo port)			
	Port 1-16 support 10/100Base-TX,	Port 1-24 support 10/100Base-TX,			
	port 17-18 support	port 25-26 support			
Ethernet Port	10/100/1000Base-T(X) automatic	10/100/1000Base-T(X) automatic			
	detection, full/half Duplex	detection, full/half Duplex			
	MDI/MDI-X adaptive	MDI/MDI-X adaptive			
Twisted Pair	10BASE-T:Cat5 UTP(≤250 meter)				
Transmission	100BASE-TX:Cat5 or later UTP(≤100 meter)				
Hansinission	100BASE-T:Cat5e or later UTP(≤100 meter)				
	Gigabit SFP optical fiber interface, default not matching optical modules				
SFP Slot Port	(optional order single-mode / multi-mode, single fiber / dual fiber optical				
	module. LC)				
Optical Cable/	Multi mode: 850nm /0 ~ 500M, singl	le mode: 1310nm /0 ~ 40KM,			
Distance	1550nm /0 ~ 120KM.				
	(E, D, P) Three levels, the default state is "OFF", the function description				
E adia ad O Mah	is as follows after "ON" is turned on				
Functional Switch	E is the "ON" state, port 9-16/17-24 can support long-distance				
	transmission 10M/250m and VLAN transmission mode; when "OFF",				
	100 meters transmission.				
	D is the "ON" state, port 1-16/1-24 can support Al self-healing mode;				

	when "OFF", no communication self	f-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				
	IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x				
Forwarding Mode	Store and Forward(Full Wire Speed)				
Switching Capacity	14.8Gbps(non-blocking)				
Forwarding	5.36Mpps	6.55Mpps			
Rate@64byte	3.30Nipps	0.001/11/100			
MAC	16K				
Buffer Memory	4M				
Jumbo Frame	10K				
LED Indicator	Power: PWR (green), Network : link (yellow), PoE :PoE				
LED Indicator	(green) .rate:1000M (green)				
PoE & Power Supply					
PoE Port	Port 1 to 16 IEEE802.3af/at @	Port 1 to 24 IEEE802.3af/at @			
POE POIL	POE	POE			
Power Supply Pin	Default 1/2 (+), 3/6 (-)				
Max Power Per Port	30W, IEEE802.3af/at				
Total PWR / Input	250W (100-240V)				
Voltage	,				
Power Consumption	Standby<15W,Full load<240W	Standby<20W,Full load<250W			
Power Supply	Built-in switching power supply, AC 100 ~ 240V 50-60Hz 4.1A				
Physical Parameter					
Operation TEMP /	-20~+55°C, 5%~90% RH Non condensing				
Humidity					
Storage TEMP /	-40~+75°C, 5%~95% RH Non condensing				

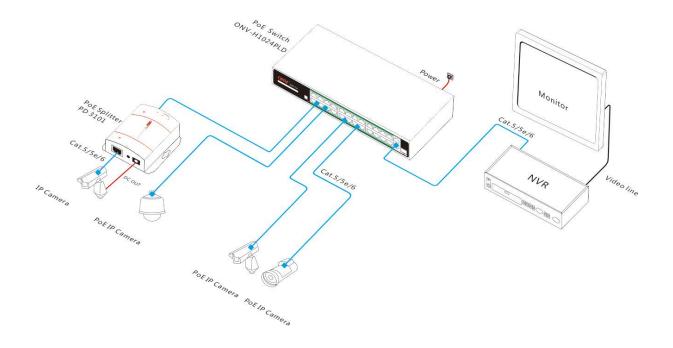
Humidity			
Dimension (L*W*H)	330*204*44mm		
Net /Gross Weight	<1.7kg / <2.2kg	<2.3kg / <3kg	
Installation	Desktop, wall-mounted,19 inch 1U cabinet		
Certification & Warranty			
Lightning Protection	Lightning protection: 4KV 8/20us, Protection level: IP30		
Certification	CCC,CE mark, commercial, CE/LVD EN60950, FCC Part 15 Class B,		
	RoHS		
Warranty	1 year, lifelong maintenance.		

### **DIMENSION**



- A.Multi-functional switch B.Working LED indicator
- C.24\*PoE port
- D.2\*10/100/1000M uplink RJ45 ports and 1\*1000M SFP combo port
- E.Power input port AC100-240V,50/60Hz

## **APPLICATION**



# **ORDERING INFORMATION**

Model	Description	
ONV-H1016PLD	Unmanaged AI PoE switch with 16*10/100M PoE ports and 2*10/100/1000M	
	uplink RJ45 ports and 1*1000M SFP combo port, Port 1-16 can support	
	IEEE802.3af/at PoE standard. Adjust function switch, Port 9-16 can support	
	10M/250 meters transmission. VLAN isolation, AI self-healing, power indication,	
	and power supply priority. Support 1U/19 inch cabinet installation.	
ONV-H1024PLD	Unmanaged AI PoE switch with 24*10/100M PoE ports and 2*10/100/1000M	
	uplink RJ45 ports and 1*1000M SFP combo port, Port 1-24 can support	
	IEEE802.3af/at PoE standard. Adjust function switch, Port 17-24 can support	
	10M/250 meters transmission. VLAN isolation, AI self-healing, power indication,	
	and power supply priority. Support 1U/19 inch cabinet installation.	

### **PACKING LIST**

	CONTENT	QTY	UNIT
	26-port Gigabit uplink AI PoE switch	1	SET
PACKING	AC Power Cable	1	PC
LIST	Mounting Kits(Hanging Ear)	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

### **CONTACT US**



OPTICAL NETWORK VIDEO TECHNOLOGIES (SHENZHEN) CO., LTD.

Tel: 0086-755-33376606

Fax: 0086-755-33376608

Email: onv@onv.com.cn

Website: www.onvcom.com

Zip: 518000

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

Factory Address: The 4-6th Floor, No. 59, Huaning Road, Xinwei Community, Dalang Street,

Longhua District, Shenzhen, China

