Product Datasheet

10-port 10/100M AI PoE Switch

(ONV-H1108PLD)

OVERVIEW

The ONV-H1108PLD is a 10/100M unmanaged AI PoE switch independently developed by ONV. It has 8*10/100Base-TX RJ45 ports and 2*10/100Base-TX RJ45 ports. Port 1-8 can support IEEE 802.3 af/at PoE standard. single port PoE power reaches 30W, and the max PoE output power is 120W. It 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, IP camera, VoIP phone, building visual access control intercom through network cable, to meet the network environment that needs high-density PoE power supply, suitable for hotels, campuses, parks, supermarkets, scenic spots, factory quarters and SMB small and medium-sized enterprises form a cost-effective network. Unmanaged mode, plug, and play, no configuration, easy to use.

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FEATURE

■ **10/100Mbps access, Dual RJ45 port uplink**

◇ Support non-blocking wire-speed forwarding.

◇ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.

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

■ **Intelligent PoE power supply**

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

◇ 8*10/100Base-TX PoE ports, meeting the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.

◇ Comply with PoE standard, automatically identify PoE devices for power without damaging non-PoE devices, and the single port max PoE output power is 30W.

■ **Innovative function**

◇ **AI PoE watchdog 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.

◇ **Power supply priority mode:** the power supply priority function of PoE port is on by default, and the power output of the leftmost PoE port (port 1) is guaranteed in priority, so as to eliminate the potential safety hazard of overload use.

◇ **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.

■ **Stable and reliable, easy to use**

◇ CCC, CE, FCC, RoHS.

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

◇   Low power consumption, galvanized steel casing, with fan.

◇   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.

TECHNICAL SPECIFICATION

Model	ONV-H1064PLD	ONV-H1108PLD
Interface Characteristics		
Fixed Port	4*10/100Base-TX PoE ports (Data/Power) 2*10/100Base-TX uplink RJ45 ports (Data)	8*10/100Base-TX PoE ports (Data/Power) 2*10/100Base-TX uplink RJ45 ports (Data)
Ethernet Port	Port 1-6/1-10 can support 10/100Base-TX auto-sensing, full/half duplex MDI/MDI-X self-adaption	
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤250 meters) 100BASE-TX: Cat5 or later UTP(≤100 meters)	
Function Switch	**E: long-distance transmission and VLAN isolation** (Default: OFF, Use: ON)	
	D: AI PoE watchdog mode: When the network fails, PoE watchdog will restart the power supply of the device and automatically repair the network communication. (Default: OFF, Use:ON)	
	Note: The function switch can control different functions, which can be enabled separately and simultaneously.	
Chip Parameter		
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T IEEE802.3u 100Base-TX, IEEE802.3x	

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Forwarding Mode	Store and Forward(Full Wire Speed)	
Switching Capacity	1.6Gbps	2Gbps
Forwarding Rate@64byte	0.89Mpps	1.488Mpps
MAC	1K	2K
Buffer Memory	768K	1.25M
Jumbo Frame	1536byte	
LED Indicator	Power: PWR (Green), Network: Link (Yellow), POE: PoE (Green) Function switch: EXTEND (Green)	

PoE & Power Supply

PoE Port	Port 1 to 4 IEEE 802.3 af/at	Port 1 to 8 IEEE 802.3 af/at
Power Supply Pin	1/2(+)3/6(-)	
Max Power Per Port	30W, IEEE 802.3 af/at	
Total PWR / Input Voltage	65W/ (AC100-240V)	120W/ (AC100-240V)
Power Consumption	Standby<3W, Full load<65W	Standby<5W, Full load<120W
Power Supply	Built-in power supply, AC100-240V 50-60Hz 1.0A	Built-in power supply, AC100-240V 50-60Hz 2.2A

Physical Parameter

Operation TEMP / Humidity	-20°C~+55°C, 5%~90% RH Non condensing	
Storage TEMP / Humidity	-40°C~+80°C, 5%~95% RH Non condensing	
Dimension (L*W*H)	143*115*40mm	195*130*40mm
Net /Gross Weight	<0.6kg / <1.0kg	<0.8kg / <1.2kg
Installation	Desktop, Wall mount	

Certification & Warranty

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
Warranty	1 year, lifelong maintenance.

ORDERING INFORMATION

Model	Description	Built-in Power Supply
ONV-H1064PLD	Unmanaged AI PoE switches with 6*10/100M RJ45 ports. Port 1-4 can support IEEE 802.3 af/at PoE standard. Adjust function switch, port 1-4 can support 10M/250m transmission, VLAN isolation, and PoE watchdog function. Built-in power supply.	65W
ONV-H1108PLD	Unmanaged AI PoE switches with 10*10/100M RJ45 ports. Port 1-8 can support IEEE 802.3 af/at PoE standard. Adjust function switch, port 1-8 can support 10M/250m transmission, VLAN isolation, and PoE watchdog function. Built-in power supply.	120W

Note: Default wall mount installation does not include hanging ears. you must buy them separately!

PACKING LIST

	Content	Qty	Unit
Packing List	10-port 10/100M AI PoE switch	1	SET
	AC Power Cable	1	PC
	User Guide	1	PC
	Warranty Card	1	PC

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