Product Datasheet

18-port Gigabit Uplink PoE Switch

(ONV-H1016PLS)



OVERVIEW

The ONV-H1016PLS is a Gigabit uplink PoE switch independently developed by ONV. It has 16*10/100M RJ45 ports and 2*10/100/1000M uplink RJ45 ports. Ports 1-16 support the PoE+ standard, and single-port PoE power is up to 30W. 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, video access control intercom, etc. through a network cable to meet the network environment that needs a high-density PoE power supply. It is suitable for hotels, campuses, factory quarters, and small and medium-sized enterprises to form an economy-efficient network. Plug and play, easy to use.

FEATURE

10/100M access, Gigabit RJ45 uplink

- ◇ Supports non-blocking wire-speed forwarding.
- ◇ Supports full-duplex based on IEEE802.3x and half-duplex based on Backpressure.
- ◇ Provides 16*10/100M PoE ports and 2*10/100/1000M RJ45 ports for flexible networking and meets the networking requirements of various scenarios.

Smart PoE power supply

- ◇ 16*10/100Base-TX RJ45 ports, meeting the needs of security monitoring, teleconferencing systems, wireless coverage, and other scenarios.
- ◇ Complies with PoE+ power standard, automatically identify PoE devices for power without damaging non-PoE devices, and the single port max PoE output power is 30W.

Stable and reliable

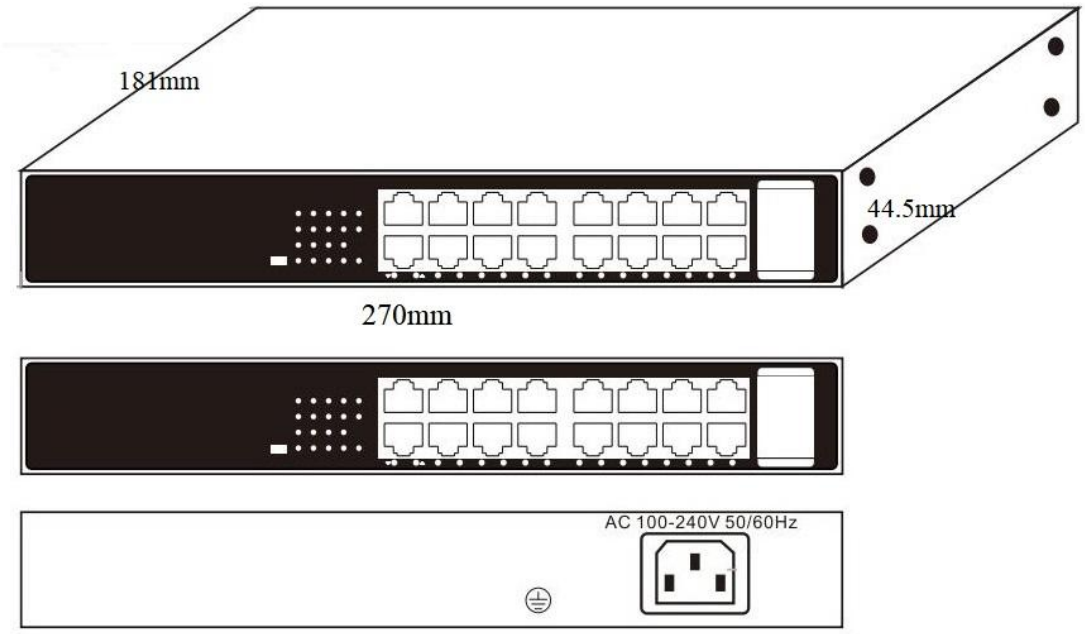
- ◇ CE, FCC, RoHS.
- ◇ Support desktop and 1U/19-inch cabinet installation.
- ◇ Plug and play, no configuration, simple and convenient.
- ◇ The user-friendly panel can show the device status through the LED indicators of PWR, Link, and PoE.
- ◇ Self-developed power supply, high redundancy design, providing long-term and stable PoE power output.
- ◇ With a function switch(250m), when it is opened, Ports 9-16 support 10M/250 meters transmission and PoE watchdog.
- ◇ Low power consumption, galvanized steel casing, excellent heat dissipation to ensure the stable operation of the switch.

TECHNICAL SPECIFICATION

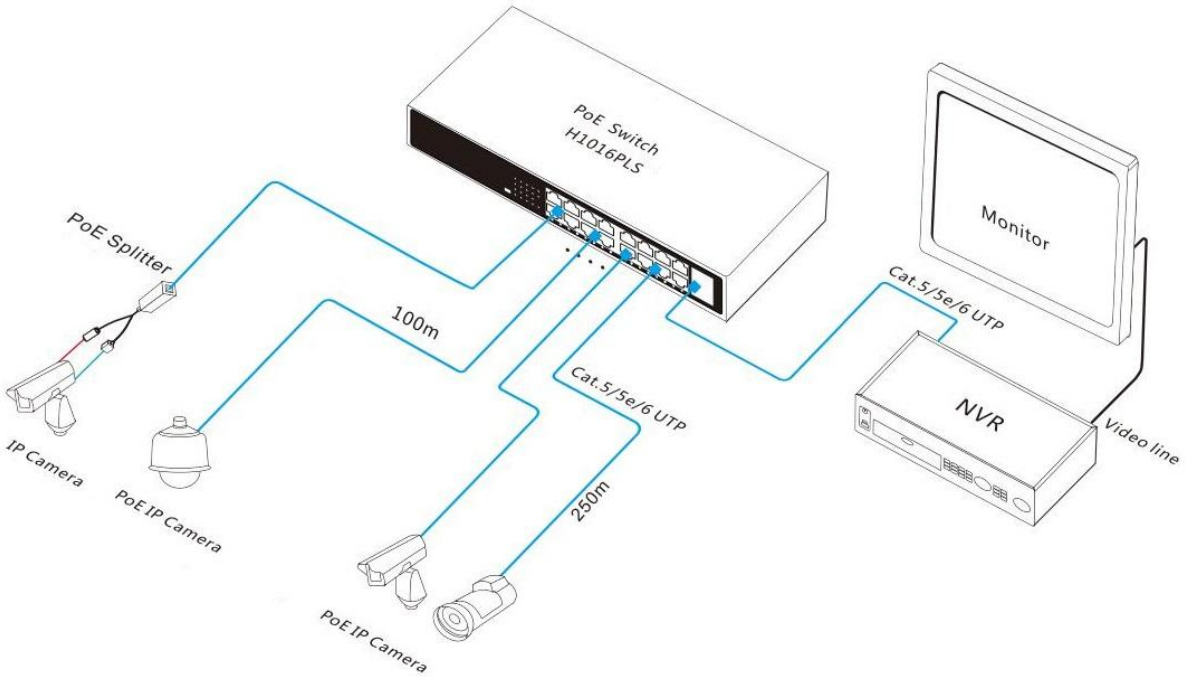
Model	ONV-H1016PLS	ONV-H1024PLS
Interface Characteristics		
Fixed Port	16*10/100Base-TX PoE ports (Data/ Power) 2*10/100/1000Base-T uplink RJ45 ports (Data)	24*10/100Base-TX PoE ports (Data/ Power) 2*10/100/1000Base-T uplink RJ45 ports (Data)
Ethernet Port	Ports 1-16 support 10/100Base-T(X) and port 17-18 support 10/100/1000Base-T auto-sensing, full/ half duplex MDI/ MDI-X self-adaptation	Ports 1-24 support 10/100Base-T(X) and port 25-26 support 10/100/1000Base-T auto-sensing, full/ half duplex MDI/ MDI-X self-adaptation
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP (≤250 meters) 100BASE-TX: Cat5 or later UTP (≤100 meters) 1000BASE-T: Cat5e or later UTP (≤100 meters)	
Function Switch	When switched to the **250m** position, the ports 9-16 rate is 10M, the transmission distance is up to 250 meters, and it supports PoE watchdog. When switched to the **100m** position, ports 1-16 rate is 100M, the transmission distance is 100 meters.	When switched to the **250m** position, the ports 17-24 rate is 10M, the transmission distance is up to 250 meters, and it supports PoE watchdog. When switched to the **100m** position, ports 1-24 rate is 100M, the transmission distance is 100 meters.
Chip Parameter		
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T, IEEE802.3x	
Forwarding Mode	Store and forward (Full wire speed)	

Switching Capacity	12Gbps (Non-blocking)	
Forwarding Rate@64byte	5.36Mpps	6.55Mpps
MAC	2K	
Buffer Memory	2M	
LED Indicator	Power: PWR (Green), Network: Link(Green), PoE: PoE (Green)	
PoE & Power Supply		
PoE Port	Port 1-16	
Power Supply Pin	1/2(+) 3/6(-)	
Max Power Per Port	30W, PoE+	
Total PWR/ Input Voltage	180W (AC100-240V)	250W (AC100-240V)
Power Consumption	Standby<15W, full load<180W	Standby<20W, full load <250W
Power Supply	Built-in power supply, AC100~240V 50-60Hz, 3.5A	Built-in power supply, 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)	270*181*44.5mm	330*204*44mm
Net /Gross Weight	1.3kg/ 1.75kg	1.85kg/ 2.4kg
Installation	Desktop, Wall mounted, 1U/19” rack mounted	
Certification& Warranty		
Lightning Protection	Port lightning protection: 4KV 8/20us, Protection level: IP30	
Certification	CE mark, commercial, CE/LVD EN62368-1, FCC Part 15, RoHS	
Warranty	1 year, lifelong maintenance	

DIMENSION



APPLICATION



ORDERING INFORMATION

Model	Description	Built-in Power Supply
ONV-H1016PLS	PoE switch with 16*10/100M RJ45 ports and 2*10/100/1000M uplink RJ45 ports. Ports 1-16 support the PoE+ standard. Adjust the function switch to 250m position, ports 9-16 support 10M/250 meters transmission and PoE watchdog.	180W
ONV-H1024PLS	PoE switch with 24*10/100M RJ45 ports and 2*10/100/1000M uplink RJ45 ports. Ports 1-24 can support the PoE+ standard. Adjust the function switch to 250m position, ports 17-24 support 10M/250 meters transmission and PoE watchdog.	250W

PACKING LIST

	Content	Qty	Unit
Packing List	18-port Gigabit uplink PoE switch	1	Set
	AC power line	1	PC
	Mounting Kits (hanging ears)	1	Set
	User Guide	1	PC
	Warranty Card and Certificate of Conformity	1	PC

CONTACT US

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

Tel: 0086-755-33376606

Fax: 0086-755-33376608

Email: onv@onv.com.cn

WeChat ID: ONV-PoE-IoT

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