Product Datasheet

18-Port Full Gigabit PoE Switch

(ONV-H3016PF)

OVERVIEW

The ONV-H3016PF series is an unmanaged PoE switch independently developed by ONV, it has 16*10/100/1000M PoE ports and 2*1000M uplink SFP ports. Port 1-16 can support IEEE 802.3af/at standard PoE power supply, single port PoE power up to 30W, and the maximum POE output power is 250W. 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 phone, video access control intercom, etc. through network cable to meet the network environment that needs 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.

Unmanaged model, plug and play, no configuration, easy to use.

+86 755 33376606
Optical Network Video Technologies (Shenzhen) Co., Ltd. ONV

FEATURE

■   **Full Gigabit port**

◇ Supports the combination of RJ45 ports and Gigabit SFP ports to facilitate flexible networking and 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**

◇ 16*10/100/1000Base-T RJ45 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.

◇ 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.
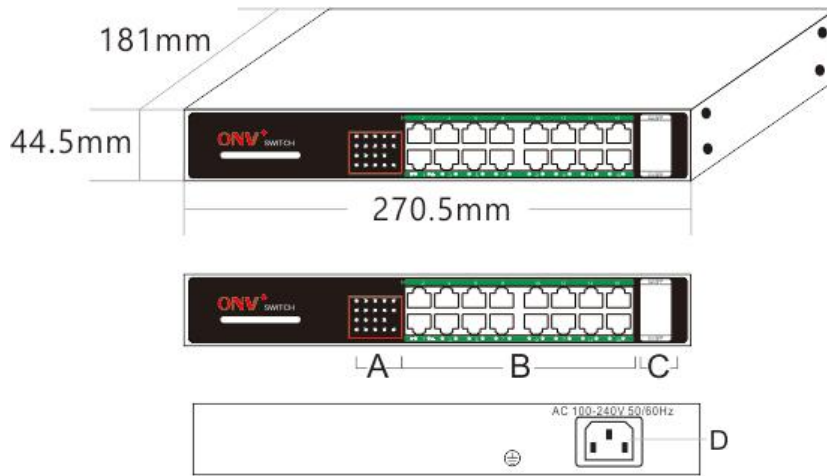
■   **Stable and reliable**

◇ CCC,CE, FCC, RoHS.

◇ 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, it can show the device status through the LED indicator of PWR, Link, PoE.

TECHNICAL SPECIFICATION

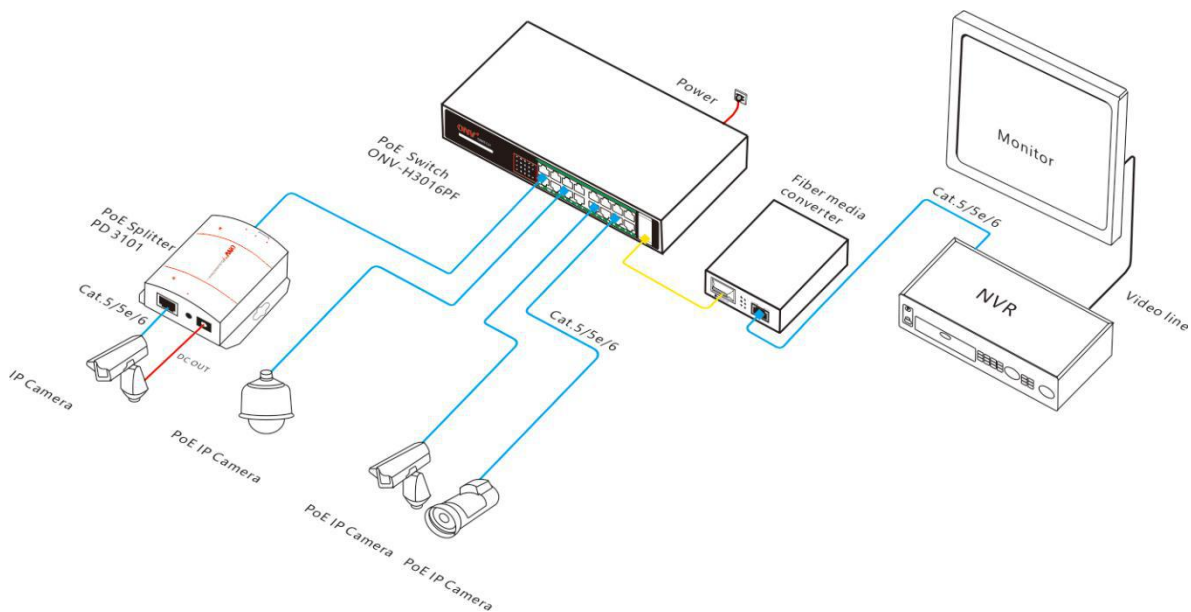| Model	ONV-H3016PF	ONV-H3024PF
Interface Characteristics		
Fixed Port	16*10/100/1000Base-T PoE ports (Data/Power) 2*1000Base-X uplink SFP ports (Data)	24*10/100/1000Base-T PoE ports (Data/Power) 2*1000Base-X uplink SFP ports (Data)
Ethernet Port	Port 1-16 support 10/100/1000Base-T auto-sensing, full/half duplex MDI/MDI-X self-adaption	Port 1-24 support 10/100/1000Base-T auto-sensing, full/half duplex MDI/MDI-X self-adaption
Twisted Pair Transmission	100BASE-TX: Cat5 or later UTP(≤100 meter) 1000BASE-T: Cat5e or later UTP(≤100 meter)	
SFP Slot Port	Gigabit SFP optical fiber interface, default not matching optical modules (optional order 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	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	52Gbps (Non-blocking)	
Forwarding Rate@64byte	26.78Mpps	38.69Mpps
MAC	8K	

Buffer Memory	4M	
Jumbo Frame	10K	
LED Indicator	Power: PWR (green), network: Link (green),PoE: PoE (green), fiber: G1/G2(green), POE :PoE(green)	
PoE & Power		
PoE Port	Port 1 to 16 IEEE802.3af/at @ POE	Port 1 to 24 IEEE802.3af/at @ POE
Power Supply Pin	Defaul 1/2 (+), 3/6 (-)	
Max Power Per Port	30W; IEEE802.3af/at	
Total PWR / Input Voltage	250W /(AC100-240V)	
Power Consumption	Standby<15W,Full Load<240W	Standby<20W, Full Load<250W
Power Supply	Built-in power supply, AC 100~240V 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	<1.7kg / <2.2kg	<3.0kg / <3.5kg
Installation	Desktop, wall mounted,19 inch 1U cabinet	
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	1 year, lifelong maintenance.	

+86 755 33376606 ONV
Optical Network Video Technologies (Shenzhen) Co., Ltd.

DIMENSION

181mm
44.5mm
270.5mm

A B C

AC 100-240V 50/60Hz D

A. Working indicator   B.16*PoE ports
C.2*1000M uplink SFP ports
D. Power input port AC100-240V,50-60Hz

APPLICATION

+86 755 33376606
Optical Network Video Technologies (Shenzhen) Co., Ltd. **ONV**

ORDERING INFORMATION

Model	Description
ONV-H3016PF	Unmanaged PoE switch with 16* 10/100/1000M PoE ports and 2* 1000M uplink SFP ports. Port 1-16 can support IEEE802.3af/at PoE Standard. Built-in 250W power supply. Support 19-inch cabinet installation.
ONV-H3024PF	Unmanaged PoE switch with 24* 10/100/1000M PoE ports and 2* 1000M uplink SFP ports. Port 1-24 can support IEEE802.3af/at PoE Standard. Built-in 250W power supply. Support 19-inch cabinet installation.

PACKING LIST

	CONTENT	QTY	UNIT
PACKING LIST	18-port full gigabit PoE switch	1	SET
	AC Power Cable	1	PC
	Mounting Kits	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

OPTICAL MODULE INFORMATION

Product	Model	Description	Unit
1.25G Optical Module	ONV-2630	SFP optical module, 1.25G, multi mode dual fiber 850nm, transmission distance: 550m, LC interface, support DDM function, support hot plug and pull.	PC
	ONV-2632	SFP optical module, 1.25G, single-mode dual fiber 1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC
	ONV-2612-T	SFP optical module, 1.25G, single-mode single fiber TX1310nm/RX1550nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC
	ONV-2613-R	SFP optical module, 1.25G, single-mode single fiber TX1550nm/RX1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC
	ONV-2612-T-SC	SFP optical module, 1.25G, single-mode single fiber TX1310nm/RX1550nm, transmission distance: 20km, SC interface, support DDM function, support hot plug and pull.	PC
	ONV-2613-R-SC	SFP optical module, 1.25G, single-mode single fiber TX1550nm/RX1310nm, transmission distance: 20km, SC interface, support DDM function, support hot plug and pull.	PC
Power Module	ONV-2633	1.25G SFP optical module transfers to 10/100/1000M RJ45 port.	PC

+86 755 33376606
Optical Network Video Technologies (Shenzhen) Co., Ltd. ONV

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

+86 755 33376606
Optical Network Video Technologies (Shenzhen) Co., Ltd.