Product Datasheet

19-port Full Gigabit PoE Fiber Switch

(ONV-H3016PFD)



OVERVIEW

The ONV-H3016PFD is an unmanaged gigabit PoE fiber switch independently developed by ONV. It has 18*10/100/1000Base-T RJ45 ports and 1*1000Base-X uplink SFP fiber port. Port 1-16 can support PoE+ power supply, and single-port PoE power 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. Unmanaged mode, plug and play, no configuration, easy to use.

FEATURE

- Full gigabit rate, optical port uplink
- ♦ Support non-blocking wire-speed forwarding for smoother transmission.
- ♦ Support full-duplex based on IEEE 802.3x and half-duplex based on Backpressure.
- Provides Gigabit Ethernet ports and SFP port uplink for flexible networking and meets the networking requirements of various scenarios.

Smart PoE power supply

- ♦ 16*10/100/1000Base-T RJ45 ports support PoE power to meet the needs of PoE power in various scenarios in the security field.
- ♦ Comply with PoE+ power supply, automatically identify PoE devices for power without damaging non-PoE devices, and the single port max PoE output power is 30W.
- PoE port supports the watchdog function, which automatically detects the data communication status in real-time. When the port communication fails, the corresponding port PoE will automatically restart and repair the network communication by itself.

Stable and reliable, easy to use

- ♦ CCC, CE, FCC, RoHS.
- ♦ Plug and play, no configuration, simple and convenient.
- ♦ The user-friendly panel can show the device status through the LED indicator of PWR, Link, and PoE.
- Self-developed power supply, high redundancy design, providing a long-term and stable PoE power output.
- ♦ Low power consumption, no fan, galvanized steel casing, excellent heat dissipation to ensure the stable operation of the switch.

Innovative function

- ◇ PoE watchdog: The watchdog function is enabled by default for ports 1-16, which can automatically detect the data communication status in real-time. When the port communication fails, the corresponding port POE will automatically restart, and the network communication can be repaired by itself, eliminating manual maintenance costs.
- ♦ Long-distance and VLAN mode (250m): switch to ON position (default off), the port 9-16 rate is 10M, and the physical VLAN isolation function is turned on at the same time to suppress broadcast storms and improve network performance. Using the existing twisted pair can break through the 100 meters transmission limit, and the transmission distance can be up to 250 meters. At the same time, it can solve the problem of poor transmission caused by aging lines.

TECHNICAL SPECIFICATION

Model	ONV-H3016PFD	ONV-H3016PFD-250			
Interface Characteristics					
Fixed Port	1*1000Base-X uplink SFP fiber port (Data)				
	2*10/100/1000Base-T uplink RJ45 ports (Data)				
	16*10/100/1000Base-T PoE ports (Data/Power)				
Ethernet Port	Port 1-18 can support 100/1000Base-T(X) auto-sensing, full/ half duplex				
	MDI/ MDI-X self-adaption				
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP (≤250 mete	rs)			
	100BASE-TX: Cat5 or later UTP (≤100 meters)				
	1000BASE-T: Cat5e or later UTP (≤100 meters)				
Optical Fiber Port	Gigabit optical fiber port, default no include optical module (optional				
Optical Fiber Fort	single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)				
Optical Cable/	Multi-mode: 850nm/ 0-550m				
Distance	Single-mode: 1310nm/ 0-40km, 1550r	e-mode: 1310nm/ 0-40km, 1550nm/ 0-120km			
Formation all Oscitals	250m: long-distance function (Default	off, Use:on), After opening, port 9-16			
Functional Switch	support 10M/250m transmission and PoE watchdog function				
Chip Parameter					
Nativalis Duata and	IEEE802.3 10BASE-T, IEEE802.3i 10	Base-T, IEEE802.3u 100Base-TX			
Network Protocol	IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x				
Forwarding Mode	Store and Forward(Full Wire Speed)				
Switching Capacity	38Gbps (Non-blocking)				
Forwarding					
Rate@64byte	28.27Mpps				
MAC	4K				
Buffer Memory	4M				
Jumbo Frame	9.2K				

Use PoE,Choos	e ONV ▶▶▶	www.onvcom.com		
	Power: PWR (Green), Network: Link (Green)			
LED Indicator	PoE: PoE (Red), Functional switch: 100m/250m (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	460M/ (A 0400 240V)	250\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
Voltage	160W/ (AC100-240V)	250W/ (AC100-240V)		
Power Consumption	Standby <5W, Full load <160W	Standby <5W, Full load <250W		
D 0 1	Built-in power supply, AC100~240V	Built-in power supply, AC100~240V		
Power Supply	50-60Hz, 3.0A	50-60Hz, 4.1A		
Physical Parameter				
Operation TEMP/	-20~+55°C, 5%~90% RH Non condensing			
Humidity				
Storage TEMP/	40x +90°C 5% -05% PH Non condensing			
Humidity	-40~+80°C, 5%~95% RH Non condensing			
Dimension (L*W*H)	350*215*44mm			
Net /Gross Weight	1.75kg / 2.25kg	2.0kg / 2.5kg		
Installation	Desktop, Rack mounted			
Certification & Warranty				
Lightning Protection	Lightning protection: 4KV 8/20us, Protection level: IP30			
Cortification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B,			

DIMENSION

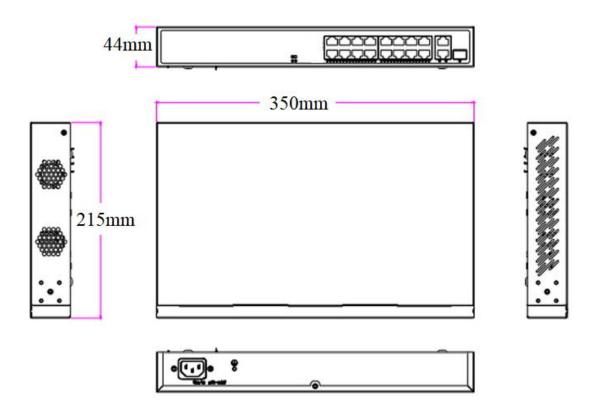
Certification

Warranty

RoHS

1 year, lifelong maintenance.





APPLICATION

ORDERING INFORMATION

Model	Description	Built-in Power Supply	
ONV-H3016PFD	Unmanaged PoE switch with 18*10/100/1000M RJ45 ports and 1*1000Base-X uplink SFP fiber port. Port 1-16 can support PoE+ power supply. PoE watchdog	52V/160W	
ONV-H3016PFD-250	function is turned on by default, switch the functional		

PACKING LIST

Packing List	Content	Qty	Unit
	19-port full Gigabit PoE fiber switch	1	SET
	AC Power Line	1	PC
	User Guide	1	PC
	Warranty Card	1	PC

CONTACT US

ONV

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

Tel: 0086-755-33376606

Fax: 0086-755-33376608

WeChat: ONV-PoE-IoT

Email: onv@onv.com.cn

Skype: onv@onv.com.cn

Website: www.onvcom.com

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

Factory Address: Floor 4-6, Building A, Senyutai Industrial Park, No. 111, Huaning Road, X

Community, Dalang Street, Longhua District, Shenzhen

