Product Datasheet

18-port Gigabit Uplink PoE Fiber Switch (ONV-POE31016PFA)



OVERVIEW

The ONV-POE31016PFA is a gigabit uplink PoE fiber switch independently developed by ONV. It has 16*10/100M RJ45 ports and 2*10/100/1000M uplink RJ45 ports and 2*1000M uplink fiber combo ports.. Port 1-16 can support IEEE 802.3 af/at PoE standard and single-port PoE power reaches 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, and visual intelligent building intercom through a network cable, and meet the network environment that needs a high-density PoE power supply. It is suitable for hotels, campuses, factory dormitories, and small and medium-sized enterprises. Unmanaged model, plug and play, no configuration, easy to use.

FEATURE

■ 10/100M access, uplink gigabit combo port

- ♦ Support non-blocking wire-speed forwarding.
- ♦ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.
- Support 10/100M RJ45 port and gigabit combo port combination, which enables users to flexibly build networking to meet the needs of various scenarios.

Smart PoE power supply

Comply with IEEE 802.3 af/at PoE standard, automatically identify PoE devices for power supply, and not damage non-PoE devices.

www.onvcom.com

- 16*10/100Base-TX RJ45 ports, meeting the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.
- 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

- \diamond CCC, CE, FCC, RoHS.
- ♦ Plug and play, no configuration, simple and convenient.
- Self-developed power supply, high redundancy, 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, and PoE.
- Low power consumption, galvanized steel metal shell, and excellent heat dissipation to ensure the stable operation of the switch.

TECHNICAL SPECIFICATION

Model	ONV-POE31016PFA	ONV-POE31016PFA-at	
Interface Characteristics			
Fixed Port	16*10/100Base-TX PoE ports (Data	/Power)	
	2*10/100/1000Base-T uplink RJ45 ports (Data)		
	2*1000M uplink SFP fiber combo ports (Data)		
Ethernet Port	10/100Base-T(X) and 10/100/1000B	ase-T auto-sensing, full/ half duplex	
Ethemet Port	MDI/ MDI-X self-adaption		
Twisted Pair	10BASE-T: Cat3,4,5 UTP (≤100 me	ters)	
Transmission	100BASE-TX: Cat5 or later UTP (≤100 meters)		
	1000BASE-T: Cat5e or later UTP (≤	100 meters)	

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

Optical Fiber Port	Gigabit optical fiber interface, default no include optical module (optional single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)	
Optical Cable/	Multi-mode: 850nm/ 0-500m, Single-mode: 1310nm/ 0-40km, 1550nm/	
Distance	0-120km	
Chip Parameter		
Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX,	
	IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X, IEEE 802.3x	
Forwarding Mode	Store and Forward (Full Wire Speed)	
Switching Capacity	14.8Gbps (Non-blocking)	
Forwarding	5.36Mpps	
Rate@64byte		
MAC	16K	
Buffer Memory	4M	
Jumbo Frame	10K	
LED Indicator	Power: PWR (Green), Network: Link, Link/Act (Yellow), PoE: PoE(Green),	
	Rate: 1000M (Green)	

www.onvcom.com

PoE & Power Supply

PoE Port	Port 1-16		
Power Supply Pin	1/2(+) 3/6 (-)		
Max Power Per Port	30W, IEEE 802.3 af/at		
Total PWR / Input			
Voltage	250W/ (AC100-240V)	400W/ (AC100-240V)	
Power Consumption	Standby<15W, Full load<250W	Standby<20W, Full load<400W	
Power Supply	Built in power supply,	Built in power supply, AC100~240V	
Power Supply	AC100~240V 50-60Hz, 4.1A	50-60Hz, 5.0A	
Physical Parameter			
Operation TEMP /	$20 + 55^{\circ}C = 50^{\prime} = 0.00^{\prime}$ DU Non condensing		
Humidity	-20~+55°C, 5%~90% RH Non condensing		
Storage TEMP /	-40~+75°C, 5%~95% RH Non condensing		

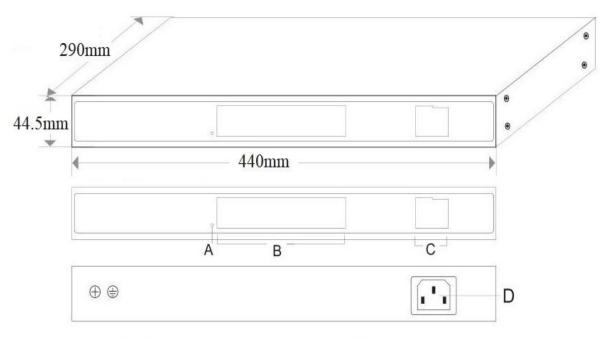
+86 755 33376606 Optical Network Video Technologies (Shenzhen) Co., Ltd.

Use PoE, Choose ONV >>>

Humidity		
Dimension (L*W*H)	440*290*44.5mm	
Net /Gross Weight	3.5kg /4.3kg	3.7kg /4.5kg
Installation	Desktop, wall mount, 1U/19" cabinet	
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	3 years, lifelong maintenance.	

www.onvcom.com

DIMENSION

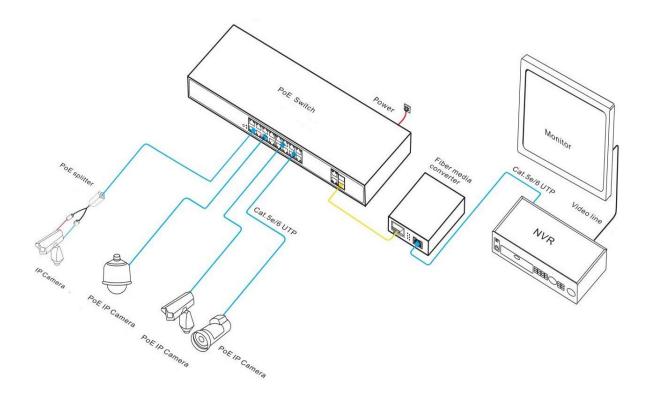


A. Working indicator B. 16*10/100M PoE ports

- C. 2*1000M uplink RJ45/SFP fiber combo ports
- D. Power input port AC100-240V, 50/60Hz



APPLICATION



www.onvcom.com

ORDERING INFORMATION

Model	Description	Built-in Power Supply
ONV-POE31016PFA	Unmanaged PoE fiber switch with 16*10/100M RJ45 ports and 2*10/100/1000M uplink RJ45 ports and 2*1000M SFP fiber combo ports. Port 1-16 can	250W
ONV-POE31016PFA-at	support IEEE 802.3 af/at PoE standard. It built-in power supply and 1U/19" cabinet installation.	400W
Note: The optical module is not included and needs to be purchased.		



PACKING LIST

Packing List	Content	Qty	Unit
	18-port gigabit uplink PoE fiber switch	1	SET
	AC Power Cable	1	PC
	Mounting Kit (Hanging Ear)	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

OPTICAL MODULE

Product	Model	Description	Unit
	2630	SFP optical module, 1.25G multi-mode dual fiber 850nm, transmission distance: 550m, LC interface. support DDM function	PC
		and hot plugging.	
		SFP optical module, 1.25G single-mode dual fiber 1310nm,	
	2632	transmission distance: 20km, LC interface. support DDM function	PC
		and hot plugging.	
		SFP optical module, 1.25G single-mode single fiber TX1310nm/	
1.25G	2612-T	RX1550nm, transmission distance: 20km, LC interface. support	PC
Optical		DDM function and hot plugging.	
Module		SFP optical module, 1.25G single-mode single fiber TX1550nm/	
	2613-R	RX1310nm, transmission distance: 20km, LC interface. support	PC
		DDM function and hot plugging.	
		SFP optical module, 1.25G single-mode single fiber TX1310nm/	
	2612-T-SC	RX1550nm, transmission distance: 20km, SC interface. support	PC
		DDM function and hot plugging.	
	2613-R-SC	SFP optical module, 1.25G single-mode single fiber TX1550nm/	PC
	20101100	RX1310nm, transmission distance: 20km, SC interface. support	. •

		DDM function and hot plugging.	
Power Module	2633	1.25G SFP optical module transfers to 10/100/1000M RJ45 port.	PC

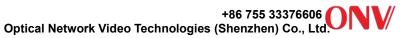
www.onvcom.com

RELATED PRODUCT

Model	Description
ONV-POE33108PF	Unmanaged PoE fiber switch with 8*10/100/1000M RJ45 ports and
	2*1000M uplink SFP fiber ports. Port 1-8 can support IEEE 802.3 af/at PoE
	standard. It built-in 130W power supply and 1U/19" cabinet installation.
	Unmanaged PoE fiber switch with 10*10/100/1000M RJ45 ports and
ONV-POE33128PF	2*1000M uplink SFP fiber ports. Port 1-8 can support IEEE 802.3 af/at PoE
	standard. It built-in 130W power supply and 1U/19" cabinet installation.
	Unmanaged PoE fiber switch with 16*10/100/1000M RJ45 ports and
ONV-POE33016PF	2*1000M uplink SFP fiber ports. Port 1-16 can support IEEE 802.3 af/at
	PoE standard. It built-in 250W power supply and 1U/19" cabinet installation.
ONV-POE33020PF	Unmanaged PoE fiber switch with 18*10/100/1000M RJ45 ports and
	2*1000M uplink SFP fiber ports. Port 1-16 can support IEEE 802.3 af/at
	PoE standard. It built-in 250W power supply and 1U/19" cabinet installation.
	Unmanaged PoE fiber switch with 26*10/100/1000M RJ45 ports and
ONV-POE33028PF	2*1000M uplink SFP fiber ports. Port 1-24 can support IEEE 802.3 af/at
	PoE standard. It built-in 400W power supply and 1U/19" cabinet installation.

CONTACT US

ONV Optical Network Video Technologies (Shenzhen) Co., Ltd. Tel: 0086-755-33376606 Fax: 0086-755-33376608 Email:onv@onv.com.cn Skype: 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

