#### **Product Datasheet**

# 2-port 10/100M Industrial PoE Switch (ONV-IPS1021PF)



#### **OVERVIEW**

The ONV-IPS1021PF is a 10/100M industrial PoE fiber switch independently developed by ONV. It has 1\*10/100M RJ45 port and 1\*155M uplink SC fiber port. Port 1 can support IEEE 802.3 af/at PoE standard 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 devices such as wireless AP, IP cameras, and industrial sensors through the network cable, and meet the network environment that needs a high-density PoE power supply. It is suitable for intelligent transportation, rail transit, power industry, mining, petroleum, and sea transportation. Industrial scenes such as metallurgy and green energy, construction form a cost-effective, stable, and reliable communication network. Unmanaged model, plug and play, no configuration, easy to use.

#### FEATURE

#### 100M RJ45 and SC port, fast Ethernet

- ♦ Support non-blocking wire-speed forwarding.
- ♦ Support full-duplex based on IEEE 802.3x and half-duplex based on Backpressure.
- Support 10/100M RJ45 port and 155M SC fiber 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.
- 1\*10/100Base-TX RJ45 port can support PoE power supply to meet the needs of PoE power
   supply in various scenarios in the industrial field.

#### Stable and reliable

- $\diamond$  CCC, CE, FCC, RoHS.
- The user-friendly panel can show the device status through the LED indicator of PWR, Link, and PoE.
- Low power consumption, no fan, aluminum shell, and excellent heat dissipation to ensure the stable operation of the switch.

### **TECHNICAL SPECIFICATION**

Model	ONV-IPS1021PF		
Interface Characteristics			
	1*DC5521 power socket		
Fixed Dert	1*155M uplink SC fiber port(Data)		
Fixed Port	1*10/100Base-TX PoE port (Data/Power)		
	2 sets V+, V- redundant DC power port (3P Phoenix terminal)		
	Port 1 can support 10/100Base-TX auto-sensing, full/ half duplex MDI/		
Ethernet Port	MDI-X self-adaption		

Twisted Pair	10BASE-T: Cat3,4,5 UTP (≤100 meters)	
Transmission	100BASE-TX: Cat5 or later UTP ( ≤100 meters)	
Optical Fiber Port	Optical module is single-mode dual fiber 20km, SC port	
Optical Cable/	Multi-mode: 850nm/ 0-550m, 1310nm/ 0-2km, Single-mode: 1310nm/	
Distance	0-40km, 1550nm/ 0-120km.	
Chip Parameter		
Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX,	
Network Protocol	IEEE 802.3u 100Base-FX, IEEE 802.3x	
Forwarding Mode	Store and Forward (Full Wire Speed)	
Switching Capacity	1.0Gbps (non-blocking)	
Forwarding Rate	0.3Mpps	
@64byte		
MAC	2К	
Buffer Memory	512K	
Jumbo Frame	2048B	
LED Indicator	Power: PWR (Green), PoE: PoE (Green), Network: Link (Yellow), Fiber	
	port: 2 (Green)	
PoE & Power Supply		
PoE Port	Port 1	
Power Supply Pin	1/2(+) 3/6 (-)	
Max Power Per Port	30W, IEEE 802.3 af/at	

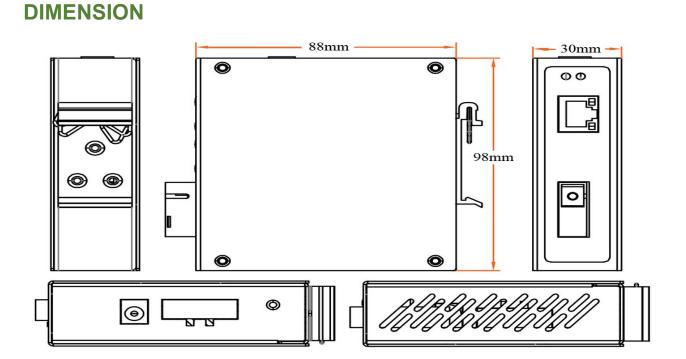
	Power Consumption	Standby<1W, Full load af<15, at<30W	
	Operating Voltage	DC44-56V, 3P industrial Phoenix terminal, support anti-reverse protection.	
	Power Supply	No, optional 36W/48V industrial power supply	
Physical Parameter			
	Operation TEMP/	$40 \times 175^{\circ}$ C = $50(\times 0.00)$ BH Non condensing	
	Humidity	-40~+75°C, 5%~90% RH Non condensing	
	Storage TEMP/	$40 \pm 95^{\circ}C = 50/1050/1011$ Non-condensing	
		-40~+85°C, 5%~95% RH Non condensing	

Humidity

#### Use PoE, Choose ONV >>>

www.onvcom.com

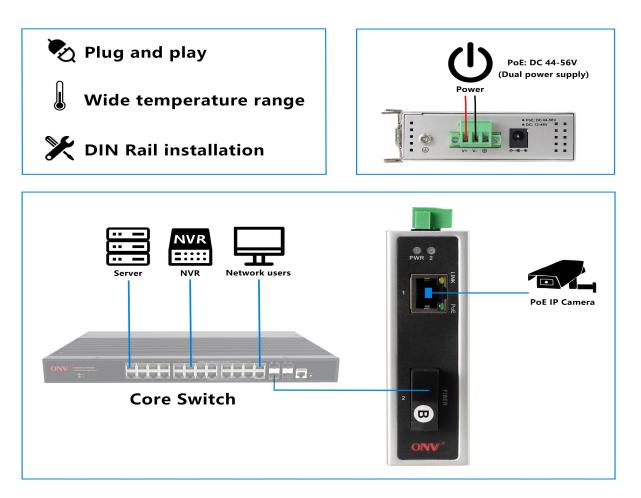
Dimension (L*W*H)	98*88*30mm	
Net /Gross Weight	0.25kg/ 0.35kg	
Installation	Desktop, 35mm DIN Rail	
Certification & Warran	ty	
	Protection level: IP30	
	Lightning protection: 6KV 8/20us	
	IEC61000-4-3 (RS):10V/m (80~1000MHz)	
	FCC Part 15/CISPR22 (EN55022): Class B	
	IEC61000-6-2 (Common Industrial Standard)	
	IEC61000-4-9 (Pulsed magnet field): 1000A/m	
Lightning Protection	IEC61000-4-10 (Damped oscillation): 30A/m 1MHz	
Lightining Flotection	IEC61000-4-12/18 (Shockwave): CM2.5kV, DM1kV	
	IEC61000-4-4(EFT): Power cable: ±4kV, data cable: ±2kV	
	IEC61000-4-16 (Common-mode transmission): 30V, 300V, 1s	
	IEC61000-4-2 (ESD): ±8kV contact discharge, ±15kV air discharge	
	IEC61000-4-6 (Radio frequency transmission): 10V(150kHz~80MHz)	
	IEC61000-4-8 (Power frequency magnetic field): 100A/m, 1000A/m, 1s-3s	
	IEC61000-4-5 (Surge): Power cable: CM±4kV/ DM±2kV, data cable: ±4kV	
Mechanical Properties	IEC60068-2-6 (Anti Vibration), IEC60068-2-32 (Free Fall), IEC60068-2-27	
Mechanical Properties	(Anti Shock)	
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B,	
Certification	RoHS	
Warranty	5 years, lifelong maintenance.	



www.onvcom.com

### **APPLICATION**

Use PoE, Choose ONV ▶▶▶





## **ORDERING INFORMATION**

Model	Model Description		
	Unmanaged industrial PoE fiber switch with 1*10/100M		
	RJ45 port and 1*155M uplink SC fiber port (1310nm		
ONV-IPS1021PF	/20km single-mode dual fiber optical module). Port 1 can	48V/36W	
	support IEEE 802.3 af/at PoE standard. It can support		
	dual DC power input and DIN rail mounting.		
	Unmanaged industrial PoE fiber switch with 1*10/100M		
	RJ45 port and 1*155M uplink SC fiber port (1310nm		
ONV-IPS1021PF-A	/20km single-mode single fiber optical module). Port 1	48V/36W	
	can support IEEE 802.3 af/at PoE standard. It can		
	support dual DC power input and DIN rail mounting.		
	Unmanaged industrial PoE fiber switch with 1*10/100M		
	RJ45 port and 1*155M uplink SC fiber port (1550nm		
ONV-IPS1021PF-B	/20km single-mode single fiber optical module). Port 1	48V/36W	
	can support IEEE 802.3 af/at PoE standard. It can		
	support dual DC power input and DIN rail mounting.		
Note: The power supply is not included and needs to be purchased.			

## **PACKING LIST**

	Content	Qty	Unit
Decking List	2-port 10/100M industrial PoE switch	1	SET
Packing List	User Guide	1	PC
	Warranty Card and Certificate of Conformity	1	PC

www.onvcom.com

### **POWER SUPPLY**

Product	Model	Description	Unit
36W Desktop Power Adapter	GWS-AP36-52	Desktop 36W single set of output power adapter Input Voltage: AC100V~240V 50-60Hz, 0.56A Output Voltage: DC52V, 0.7A Operation Temperature: -20°C to +65°C	PC
36W DIN Rail Industrial Power Supply	GWS-DP36-48	DIN Rail 36W single set of output power supply Input Voltage: AC100V~240V 50-60Hz, 0.56A Output Voltage: DC48V, 0.75A Operation Temperature: -40°C to +70°C	PC

## **CONTACT US**

ONV optical Network Video Technologies (Shenzhen) Co., Ltd. Tel: 0086-755-33376608 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

