

Product Datasheet

5-port 10/100M Industrial PoE Switch

(ONV-IPS1004PF)



OVERVIEW

The ONV-IPS1004PF is a 10/100M industrial PoE fiber switch independently developed by ONV. It has 4*10/100M adaptive RJ45 ports and 1*155M SC fiber port. Ports 1-4 support the IEEE 802.3af/at PoE standard, with 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. The network cable can supply power to PoE terminal devices such as wireless APs, IP cameras, and industrial sensors. It also meets network environments that require a high-density PoE power supply. It is suitable for intelligent transportation, rail transit, the power industry, mining, petroleum, and sea transportation. Industrial scenes such as metallurgy, green energy, and construction form a cost-effective, stable, and reliable communication network. Plug-and-play and easy to use.

FEATURE

- **10/100M access**
- ◇ Support non-blocking wire-speed forwarding

- ◇ Support full-duplex based on IEEE 802.3x and half-duplex based on Backpressure
- ◇ Supports a combination of 100M RJ45 port and 155M SC fiber port, which allows users to flexibly build networks and meet the networking needs of various scenarios.

■ Smart PoE power supply

- ◇ Complies with IEEE 802.3 af/at PoE standard, automatically identifies PoE devices for power supply, and does not damage non-PoE devices.
- ◇ 4*10/100Base-TX RJ45 ports can support PoE power supply to meet the needs of PoE power supply in various scenarios in the industrial field.

■ Stable and reliable

- ◇ CE, FCC, RoHS.
- ◇ The user-friendly panel can show the device status through the LED indicators for PWR, Link, and PoE.
- ◇ Low power consumption, no fan, aluminum alloy housing, and excellent heat dissipation to ensure the stable operation of the switch.

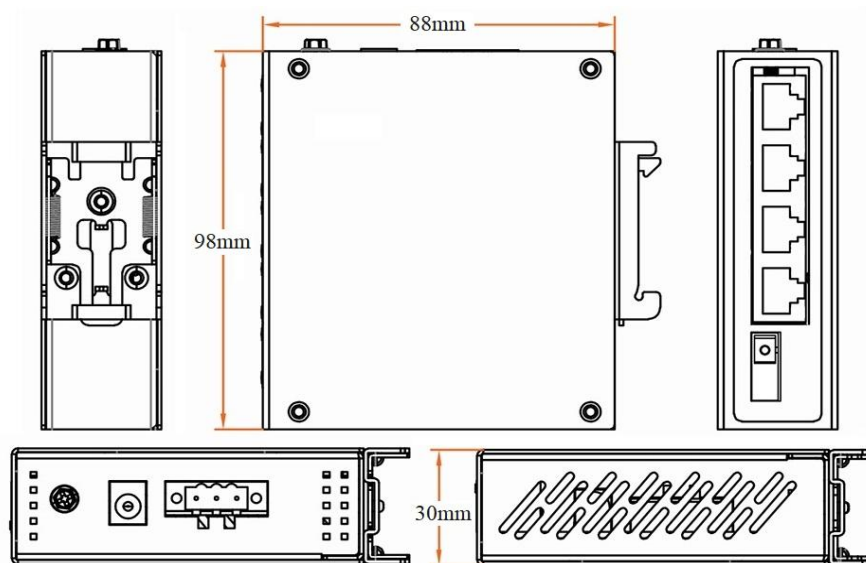
TECHNICAL SPECIFICATION

Model	ONV-IPS1004PF	ONV-IPS1004PF-A	ONV-IPS1004PF-B
Interface Characteristics			
Fixed Port	1*DC5521 power socket 1*155M uplink SC fiber port (Data) 4*10/100Base-TX PoE ports (Data/ Power) 1 V+, V- (3P Phoenix terminal) DC power interface Dual power interfaces support reverse-connection protection.		
Ethernet Port	Ports 1-4 support 10/100Base-TX auto-sensing, full/ half duplex MDI/ MDI-X self-adaption		
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP (≤100 meters) 100BASE-TX: Cat5e or later UTP (≤100 meters)		

Optical Fiber Port	Single-mode dual-fiber 20 km, SC port	Single-mode, single-fiber, 20 km, SC port	
Optical Cable/ Distance	20 km, 1310 nm	20 km, TX 1310 nm/RX 1550 nm	20 km, TX 1550 nm/RX 1310 nm
Chip Parameter			
Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3u 100Base-FX, IEEE 802.3x		
Forwarding Mode	Store and forward (Full wire speed)		
Switching Capacity	1.0Gbps (non-blocking)		
Forwarding Rate@64byte	0.74Mpps		
MAC	1K		
Buffer Memory	512K		
Jumbo Frame	2048bytes		
LED Indicator	Power: PWR (Green), Network: Link 1-4 (Green), PoE: PoE 1-4 (Red), Fiber port: FX (Green)		
PoE& Power Supply			
PoE Port	Port 1-4		
Power Supply Pin	1/2(+) 3/6(-)		
Max Power Per Port	30W, IEEE 802.3 af/at		
Power Consumption	Standby<3W, full load af<60W, at<120W		
Operation Voltage	DC44-56V		
Power Supply	No, optional 48V/60W and 48V/120W industrial power supply		
Physical Parameter			
Operation Temp/ Humidity	-40~+75°C, 5%~90% RH non-condensing		
Storage Temp/ Humidity	-40~+85°C, 5%~95% RH non-condensing		
Dimension (L*W*H)	98*88*30mm		
Net /Gross Weight	0.25kg/ 0.35kg		
Installation	Desktop, 35mm DIN Rail		
Certification& Warranty			

Lightning Protection	IEC61000-4-3 (RS): 10V/m (80~1000MHz)
	FCC Part 15/CISPR22 (EN55022): Class A
	IEC61000-6-2 (Common Industrial Standard)
	IEC61000-4-9 (Pulsed magnetic field): 1000A/m
	IEC61000-4-10 (Damped oscillation): 30A/m 1MHz
	IEC61000-4-12/18 (Shockwave): CM2.5kV, DM1kV
	Protection level: IP30, Lightning protection: 6KV 8/20us
	IEC61000-4-4(EFT): Power cable: ± 4 kV, data cable: ± 2 kV
	IEC61000-4-16 (Common-mode transmission): 30V, 300V, 1s
	IEC61000-4-2 (ESD): ± 8 kV contact discharge, ± 15 kV air discharge
Mechanical Properties	IEC61000-4-6 (Radio frequency transmission): 10V(150 kHz- 80 MHz)
	IEC61000-4-8 (Power frequency magnetic field): 100A/m, 1000A/m, 1s-3s
Certification	CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class A, RoHS
Warranty	5 years, lifelong maintenance.

DIMENSION



APPLICATION

 **Plug and play**

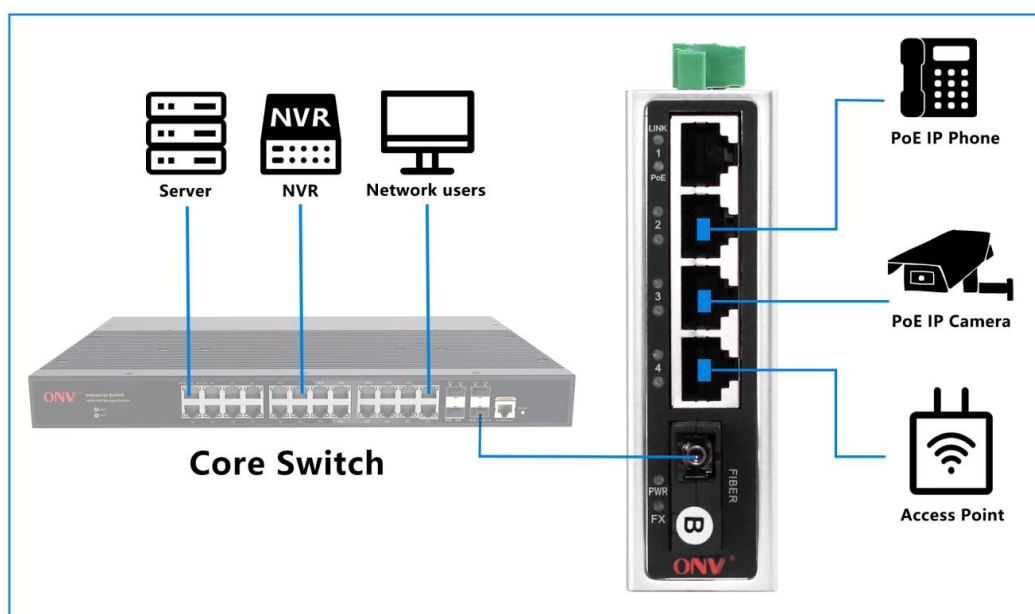
 **Wide temperature range**

 **DIN Rail installation**



PoE: DC44-56V
(Dual power supply)

Power



ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS1004PF	Industrial PoE switch with 4*10/100M RJ45 ports and 1*155M uplink SC fiber port (1310nm/20km single-mode dual-fiber optical module). Ports 1-4 support the IEEE 802.3 af/at PoE standard. It supports dual DC power input and DIN rail mounting.	60W/120W
ONV-IPS1004PF-A	Industrial PoE switch with 4*10/100M RJ45 ports and	60W/120W

	1*155M uplink SC fiber port (1310nm/20km single-mode single-fiber optical module). Ports 1-4 support the IEEE 802.3 af/at PoE standard. It supports dual DC power input and DIN rail mounting.	
ONV-IPS1004PF-B	Industrial PoE switch with 4*10/100M RJ45 ports and 1*155M uplink SC fiber port (1550nm/20km single-mode single-fiber optical module). Ports 1-4 support the IEEE 802.3 af/at PoE standard. It supports dual DC power input and DIN rail mounting.	60W/120W

Note: The power supply is not included and needs to be purchased.

PACKING LIST

	Content	Qty	Unit
Packing List	5-port 10/100M industrial PoE switch	1	PC
	User Guide	1	PC
	Warranty Card and Certificate of Conformity	1	PC

POWER SUPPLY

Product	Model	Description	Unit
65W Desktop power adapter	GWS-AP65-52	Desktop 65W single-set output power adapter Input voltage: AC100V~240V 50-60Hz, 1.1A Output voltage: DC52V, 1.25A Operation Temperature: -20℃ to +65℃	PC
110W Desktop power adapter	GWS-AP110-52	Desktop 110W single-set output power adapter Input voltage: AC100V~240V 50-60Hz, 2.0A Output voltage: DC52V, 2.15A Operation temperature: -20℃ to +65℃	PC
60W DIN Rail	GWS-DP60-48	DIN Rail 60W single-set output power supply	PC

industrial power supply		Input voltage: AC100V~240V 50-60Hz, 1.6A Output voltage: DC48V, 1.25A Operation temperature: -40℃ to +70℃	
120W DIN Rail industrial power supply	GWS-DP120-48	DIN Rail 120W single-set output power supply Input voltage: AC100V~240V 50-60Hz, 2.3A Output voltage: DC48V, 2.5A Operation temperature: -40℃ to +70℃	PC

CONTACT US



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