Product Datasheet

2-port 10/100M Industrial PoE Fiber 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 can automatically detect and recognize the power-receiving equipment that meets the standard and supplies power through the network cable. It can supply power to PoE terminal equipment such as wireless AP, IP cameras, VoIP phones, and industrial sensors through network cables, and meet the network environment that needs a high-density PoE power supply. It is suitable for intelligent transportation, rail transit, electric power, mining, metallurgy and green energy, and industrial scenes such as construction to set up a cost-effective and stable communication network. Unmanaged mode, plug and play, no configuration, easy to use.

FEATURE

■ **10/100M RJ45 and SC port, fast Ethernet**

◇ 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 155M SC fiber port combination, which enables users to flexibly build networking to meet the needs of various scenarios.

■ **Smart PoE power supply**

◇ IEEE 802.3 af/at PoE standard, without damaging non-PoE devices.

◇ 1*10/100Base-TX RJ45 ports, meeting the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.

■ **Stable and reliable**

◇ CCC, CE, FCC, RoHS.

◇ The user-friendly panel can show the device status through the LED indicator of PWR, Link, PoE.

◇ Low power consumption, no fan, aluminum shell, excellent heat dissipation to ensure the stable operation of the switch.
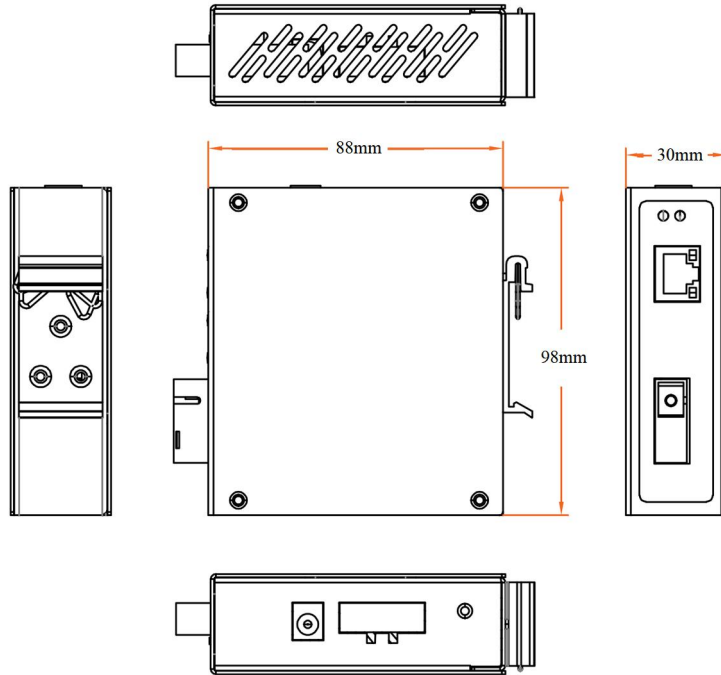
TECHNICAL SPECIFICATION

Model	ONV-IPS1021PF
Interface Characteristics	
Fixed Port	1*DC5521 power socket 1*155M uplink SC fiber port(Data) 1*10/100Base-TX PoE port (Data/Power) 2 set of V+, V- redundant DC power interface (3P Phoenix terminal)
Ethernet Port	Port 1 support 10/100Base-TX auto-sensing, full/ half duplex MDI/ MDI-X self-adaption
Twisted Pair	10BASE-T: Cat3,4,5 UTP (≤100 meters)

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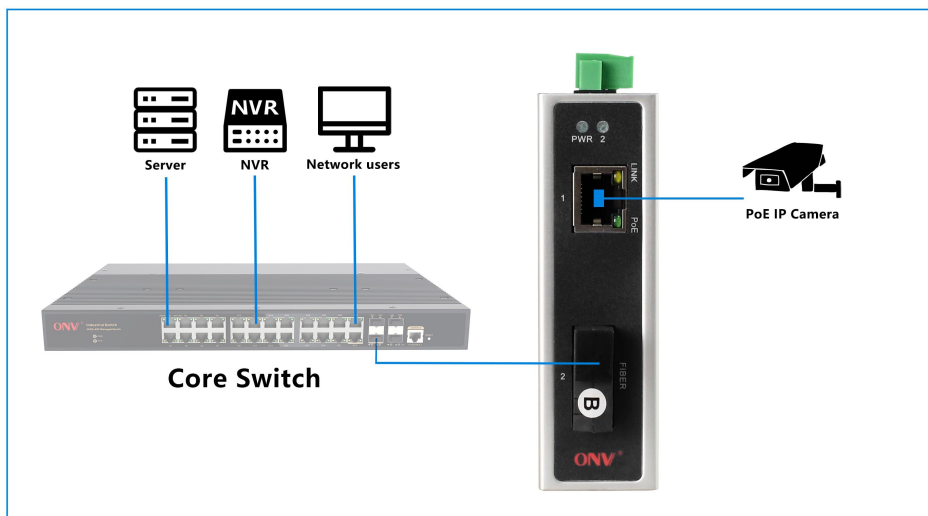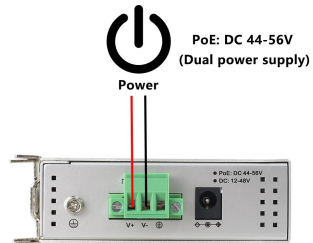| Transmission	100BASE-TX: Cat5 or later UTP (≤100 meters)
Fiber Port	Default optical module is single-mode dual fiber 20km, SC port
Optical Cable/ Distance	Multi-mode: 850nm/ 0-500m, 1310nm/ 0-2km Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km.
Chip Parameter	
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T IEEE802.3u 100Base-TX, IEEE802.3u 100Base-FX, IEEE802.3x
Forwarding Mode	Store and Forward (Full Wire Speed)
Switching Capacity	1.0Gbps (no-blocking)
Forwarding Rate@64byte	0.3Mpps
MAC	2K
Buffer Memory	512Kb
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/ 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

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Net /Gross Weight	<0.2kg / <0.3kg
Installation	Desktop, 35mm DIN Rail
Certification & Warranty	
Lightning Protection	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
	IEC61000-4-10 (Damped oscillation): 30A/m, 1MHz
	IEC61000-4-12/18 (Shockwave): CM 2.5kV, DM 1kV
	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 (Anti Shock)
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B, RoHS
Warranty	5 years, lifelong maintenance.

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DIMENSION

88mm

30mm

98mm

APPLICATION

Plug and play

Wide temperature range

DIN Rail installation

PoE: DC 44-56V
(Dual power supply)

Power

Server   NVR   Network users

Core Switch

PoE IP Camera

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ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS1021PF	Unmanaged industrial PoE fiber switch with 1*10/100M RJ45 port and 1*155M uplink SC port (1310nm/20km single-mode dual fiber module). Port 1 can support IEEE 802.3 af/a PoE standard. It can support dual DC redundant power input and DIN rail mounting.	48V/36W
ONV-IPS1021PF-A	Unmanaged industrial PoE fiber switch with 1*10/100M RJ45 port and 1*155M uplink SC port (1310nm/20km single-mode single fiber module). Port 1 can support IEEE 802.3 af/a PoE standard. It can support dual DC redundant power input and DIN rail mounting.	48V/36W
ONV-IPS1021PF-B	Unmanaged industrial PoE fiber switch with 1*10/100M RJ45 port and 1*155M uplink SC port (1550nm/20km single-mode single fiber module). Port 1 can support IEEE 802.3 af/a PoE standard. It can support dual DC redundant power input and DIN rail mounting.	48V/36W

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

PACKING LIST

	Content	Qty	Unit
Packing List	2-port 10/100M industrial PoE fiber switch	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

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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℃ to +65℃	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℃ to +70℃	PC

CONTACT US

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