

Product Datasheet

2-port Gigabit Industrial PoE Switch

(ONV-IPS3021PF-SFP)



OVERVIEW

The ONV-IPS3021PF-SFP is a Gigabit industrial PoE fiber switch independently developed by ONV. It has 1*10/100/1000Base-T adaptive RJ45 port and 1*1000Base-X uplink SFP fiber port. Port 1 supports 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 the needs of 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

■ Gigabit access, uplink SFP fiber port

- ◇ Support non-blocking wire-speed forwarding.
- ◇ Support full-duplex based on IEEE 802.3x and half-duplex based on Backpressure.
- ◇ Supports a combination of Gigabit RJ45 port and SFP 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.
- ◇ 1*10/100/1000Base-T 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

- ◇ 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.

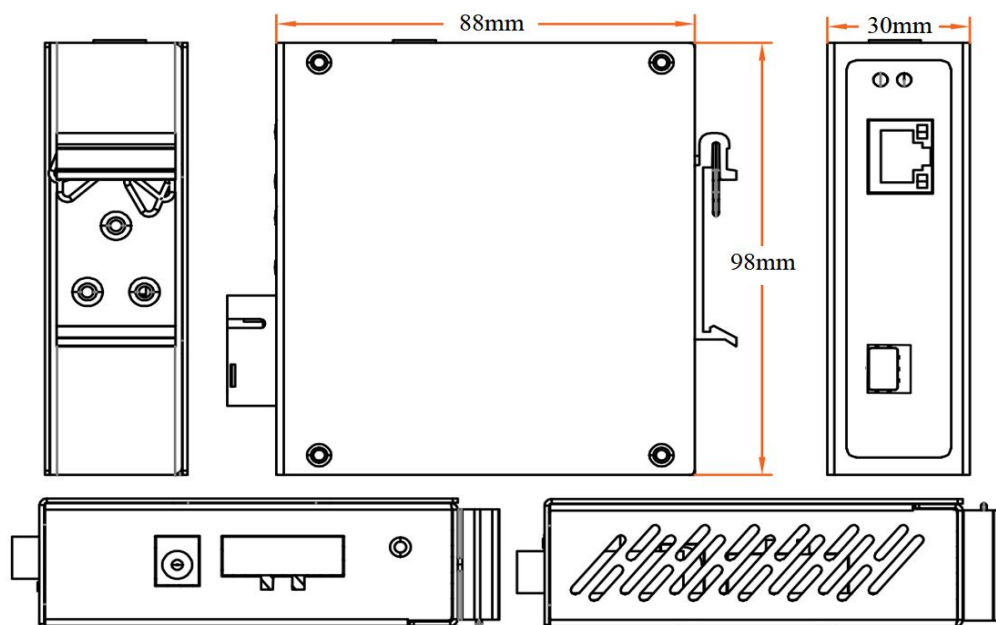
TECHNICAL SPECIFICATION

Model	ONV-IPS3021PF-SFP
Interface Characteristics	
Fixed Port	1*DC5521 power socket 1*1000Base-X uplink SFP fiber port (Data) 1*10/100/1000Base-T PoE port (Data/ Power) 1 V+, V- (3P Phoenix terminal) DC power interface Dual power interfaces support reverse-connection protection.
Ethernet Port	Port 1 supports 10/100/1000Base-T auto-sensing, full/ half duplex MDI/

	MDI-X self-adaption
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP (≤100 meters) 100BASE-TX: Cat5 or later UTP (≤100 meters) 1000BASE-T: Cat5e or later UTP (≤100 meters)
Optical Fiber Port	Gigabit SFP fiber port, does not include optical module (optional single-mode/ multi-mode, single fiber/ dual fiber optical module, LC)
Optical Cable/ Distance	Multi-mode: 850nm/ 0-550m, 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, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x
Forwarding Mode	Store and forward (Full wire speed)
Switching Capacity	12Gbps (non-blocking)
Forwarding Rate@64byte	2.98Mpps
MAC	2K
Buffer Memory	2M
Jumbo Frame	9216bytes
LED Indicator	Power: PWR (Green), PoE: PoE (Green), Network: Link (Yellow), Fiber port: G2 (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<15.4, at<30W
Operation Voltage	DC44-56V
Power Supply	No, optional 48V/36W industrial power supply
Physical Parameter	
Operation Temp/	-40~+75°C, 5%~90% RH non-condensing

Humidity	
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): ±8kV contact discharge, ±15kV air discharge IEC61000-4-6 (Radio frequency transmission): 10V(150 kHz- 80 MHz) 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	IEC 60068-2-6 (Anti vibration), IEC 60068-2-32 (Free fall), IEC 60068-2-27 (Anti shock)
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



Server



NVR



Network users



Core Switch



PoE IP Camera

ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS3021PF-SFP	Industrial PoE switch with 1*10/100/1000M RJ45 port and 1*1000M uplink SFP fiber port. Port 1 supports the IEEE 802.3 af/at PoE standard. It supports dual DC power input and DIN rail mounting.	36W

Note: The optical module and power supply are not included and must be purchased separately.

PACKING LIST

	Content	Qty	Unit
Packing List	2-port Gigabit industrial PoE switch	1	PC
	User Guide	1	PC
	Warranty Card and Certificate of Conformity	1	PC

OPTICAL MODULE

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

		TX1550nm/ RX1310nm, transmission distance: 20km, LC interface. Supports DDM function and hot-plugging.	
Power Module	2633	1.25G SFP optical module transfers to 10/100/1000M RJ45 port.	PC

POWER SUPPLY

Product	Model	Description	Unit
36W DIN Rail industrial power supply	GWS-DP36-48	DIN Rail 36W single-set 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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