

Product Datasheet

4-port Gigabit Industrial PoE Switch

(ONV-IPS33042PF)



OVERVIEW

The ONV-IPS33042PF is a Gigabit industrial PoE fiber switch independently developed by ONV. It has 2*10/100/1000M adaptive RJ45 ports and 2*1000M uplink SFP fiber ports. Ports 1-2 support the IEEE 802.3af/at PoE standard and single-port PoE power up to 30W. As a PoE power supply device, it can automatically detect and identify the power-receiving devices that meet the standards and power them through the network cable. It can power wireless APs, IP cameras, industrial sensors, and other PoE terminal devices through the network cable to meet network environments that require a high-density PoE power supply. It is suitable for industrial scenarios such as intelligent transportation, rail transportation, power industry, mining, petroleum, shipping, metallurgy, and green energy to build an economical, efficient, stable, and reliable communication network. Plug-and-play, simple, and convenient to use.

FEATURE

■ Gigabit access

- ◇ Support non-blocking wire-speed forwarding.
- ◇ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.
- ◇ Support Gigabit RJ45 port and SFP fiber port combination, which enables users to flexibly build networking to meet the needs of various scenarios.

■ Smart PoE power supply

- ◇ Compliant with the IEEE 802.3 af/at PoE standard, automatically identifies PoE devices for power supply, and does not damage non-PoE devices.
- ◇ The priority system for PoE ports will supply power to the high-priority port first when the power budget is insufficient and avoid overloading the device.
- ◇ 2*10/100/1000Base-T RJ45 ports support PoE power supply to meet the PoE power supply needs of security monitoring, conference call systems, wireless coverage, and other scenarios.

■ 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, aluminum alloy housing, and excellent heat dissipation ensure stable operation of the switch.

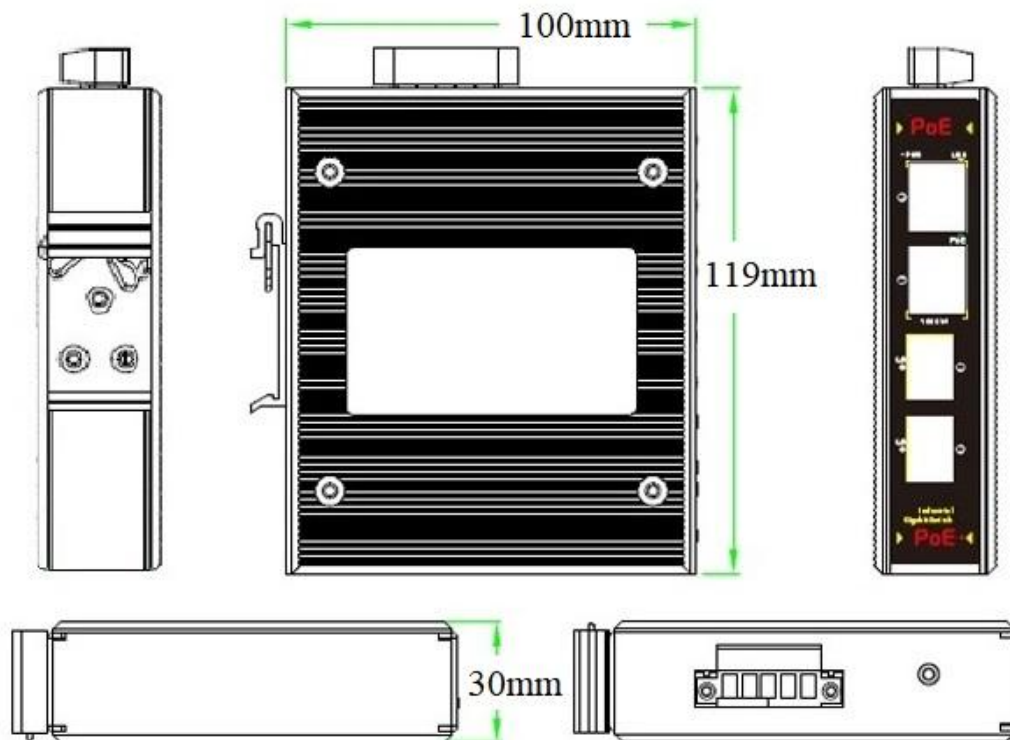
TECHNICAL SPECIFICATION

Model	ONV-IPS33042PF
Interface Characteristics	
Interface	2*1000Base-X uplink SFP fiber ports(Data) 2*10/100/1000Base-T PoE ports (Data/Power) 2 set V+, V- redundant DC power port (5P industrial Phoenix terminal)

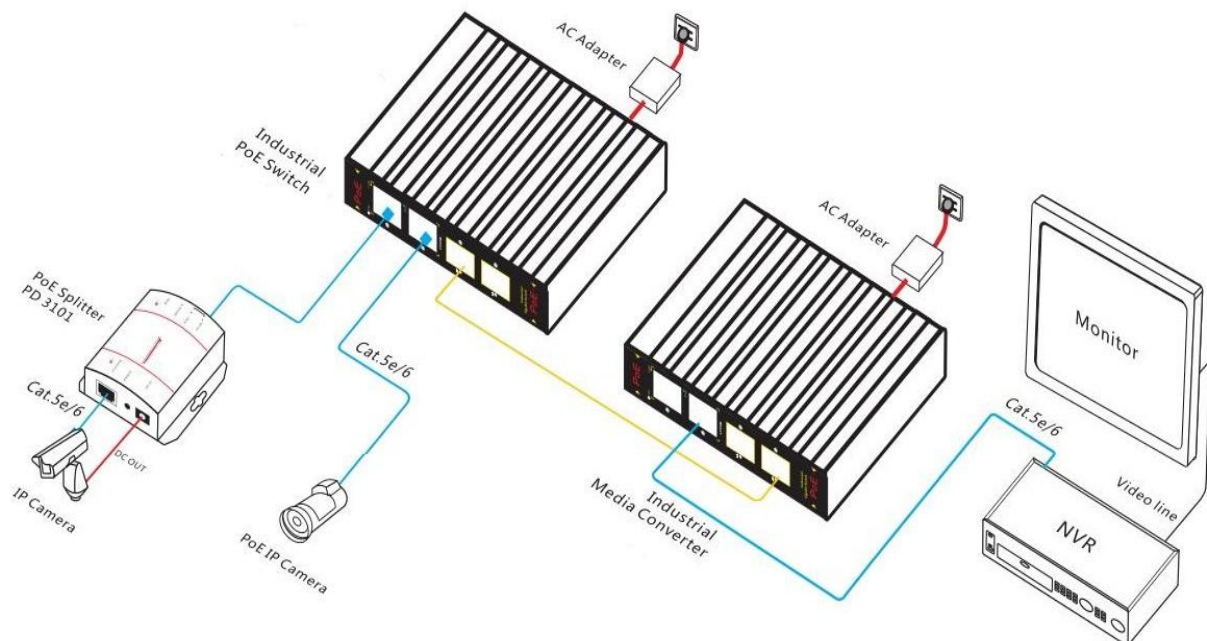
Ethernet Port	Ports 1-4 can support 10/100/1000Base-T auto-sensing, full/ half duplex MDI/ MDI-X self-adaption
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP (≤100 meters) 100BASE-TX: Cat5 or later UTP (≤100 meters) 1000BASE-T: Cat5e or later UTP (≤100 meters)
Optical Fiber Port	Gigabit SFP fiber port; Does not include an optical module (optional single-mode/ multi-mode, single fiber/ dual fiber optical module, LC)
Optical Cable/ Distance	Multi-mode: 850nm/ 0-550m, 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	5.95Mpps
MAC	2K
Buffer Memory	2M
Jumbo Frame	9.2K
LED Indicator	Power: PWR(Green), Network: Link, Link/Act (Yellow), PoE: PoE (Green)
PoE& Power Supply	
PoE Port	Port 1-2
Power Supply Pin	1/2(+) 3/6 (-)
Max Power Per Port	30W, IEEE802.3af/at
Power Consumption	Standby<4W, full load<30W
Input Voltage/ Interface	DC44-57V, 5P industrial Phoenix terminal supports anti-reverse protection.
Power Supply	No, optional 48V/36W or 48V/60W industrial power supply
Physical Parameter	
Operation Temp/ Humidity	-40~+80°C, 5%~90% RH non-condensing
Storage Temp/ Humidity	-40~+85°C, 5%~95% RH non-condensing

Dimension	119*100*30mm
Net /Gross Weight	0.4kg/ 0.5kg
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: IP40, Lightning protection: 6KV 8/20us
	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(150 kHz- 80 MHz)
Mechanical Properties	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
Certification	CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class A, RoHS
Warranty	5 years, lifelong maintenance.

DIMENSION



APPLICATION



ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS33042PF	Industrial PoE switch with 2*1000M uplink SFP fiber ports and 2*10/100/1000M RJ45 ports. Ports 1-2 support the IEEE 802.3 af/at PoE standard. It can support dual DC redundant power input (Phoenix terminal connection) and DIN rail mounting.	36W/60W

Note: The optical module and power supply are not included and need to be purchased.

PACKING LIST

	Content	Qty	Unit
Packing List	4-port Gigabit industrial PoE switch	1	Set
	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	PC

		interface, supports DDM function and hot plugging.	
	2613-R-G	Industrial SFP optical module, 1.25G single-mode single fiber TX1550nm/ RX1310nm, transmission distance: 20km, LC interface, supports DDM function and hot plugging.	PC
	2612-T-SC-G	Industrial SFP optical module, 1.25G single-mode single fiber TX1310nm/ RX1550nm, transmission distance: 20km, SC interface, supports DDM function and hot plugging.	PC
	2613-R-SC-G	Industrial SFP optical module, 1.25G single-mode single fiber TX1550nm/ RX1310nm, transmission distance: 20km, SC interface, supports DDM function and hot plugging.	PC
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 of output power supply Input Voltage: AC100V~240V 50-60Hz, 0.56A Output Voltage: DC48V, 0.75A Operation Temperature: -40℃ to +70℃	PC
60W DIN Rail industrial power supply	GWS-DP60-48	DIN Rail 60W single set of output power supply Input Voltage: AC100V~240V 50-60Hz, 1.6A Output Voltage: DC48V, 1.25A Operation Temperature: -40℃ to +70℃	PC

RELATED PRODUCT

Model	Description
ONV-IPS33032PF	Industrial PoE switch with 2*10/100/1000M RJ45 ports and 1*1000M uplink SFP fiber port. Ports 1-2 support the IEEE 802.3 af/at PoE

	standard. It can support dual DC redundant power input (Phoenix terminal connection) and DIN rail mounting.
ONV-IPS33064PF	Industrial PoE switch with 4*10/100/1000M RJ45 ports and 2*1000M uplink SFP fiber ports. Ports 1-4 support the IEEE 802.3 af/at PoE standard. It can support dual DC redundant power input (Phoenix terminal connection) and DIN rail mounting.
ONV-IPS33064PFG	Industrial PoE switch with 5*10/100/1000M RJ45 ports and 1*1000M uplink SFP fiber port. Ports 1-4 support the IEEE 802.3 af/at PoE standard. It can support dual DC redundant power input (Phoenix terminal connection) and DIN rail mounting.
ONV-IPS33108PF	Industrial PoE switch with 8*10/100/1000M RJ45 ports and 2*1000M uplink SFP fiber ports. Ports 1-8 support the IEEE 802.3 af/at PoE standard. It can support dual DC redundant power input (Phoenix terminal connection) and DIN rail mounting.

CONTACT US



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, www.onvswitch.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

