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. Port 1-2 can support IEEE 802.3 af/at PoE standard and the 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 AP, IP cameras, industrial sensors, and other PoE terminal devices through the network cable to meet the network environment that requires 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. Unmanaged mode, plug and play, no configuration, 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

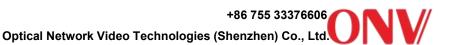
- ♦ Comply with IEEE 802.3 af/at PoE standard, automatically identify PoE devices for power supply, and not damage non-PoE devices.
- 2*10/100/1000Base-T RJ45 ports can support PoE power supply to meet the needs of PoE
 power supply in various scenarios in the industrial field.
- Priority system for PoE port will supply power to the high priority level port first when the power budget is insufficient and avoid overwork of the device.

■ Stable and reliable

- ♦ 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, aluminum alloy housing, and excellent heat dissipation to ensure stable operation of the switch.

TECHNICAL SPECIFICATION

Model	ONV-IPS33042PF	
Interface Characteristics		
	2*1000Base-X uplink SFP fiber ports (Data)	
Interface	2*10/100/1000Base-T PoE ports (Data/Power)	
	2 set V+, V- redundant DC power port (5P industrial Phoenix terminal)	
Ethernet Port	Port 1-2 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 optical fiber interface, default no include optical module (optional	

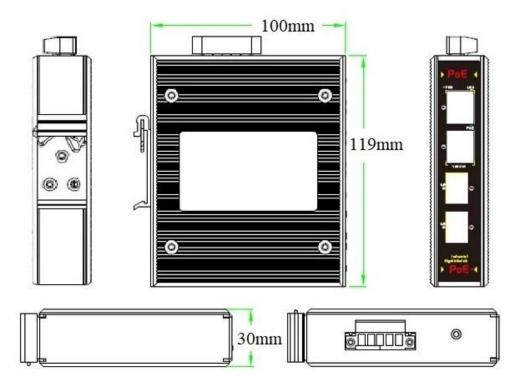


	single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)	
Optical Cable/ Distance	Multi-mode: 850nm/ 0-550m, Single-mode: 1310nm /0-40km,1550nm	
Optical Cable/ Distance	/0-120km	
Chip Parameter		
Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX,	
Network Protocol	IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X, IEEE 802.3x	
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, IEEE 802.3 af/at	
Power Consumption	Standby<4W, Full load af<30W, at<60W	
Input Voltage/ Interface	DC48-57V, 5P industrial Phoenix terminal, support 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		
Limbtoin a Doct - 4	IEC61000-4-3 (RS):10V/m (80~1000MHz)	
Lightning Protection	FCC Part 15/CISPR22 (EN55022): Class A	

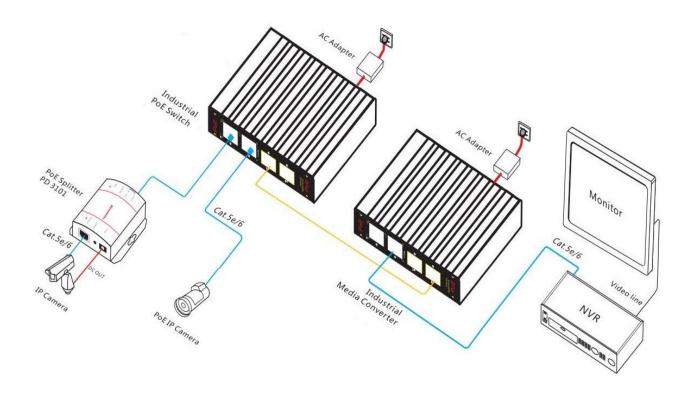


	IEC61000-6-2 (Common Industrial Standard)
	IEC61000-4-9 (Pulsed magnet field): 1000A/m
	IEC61000-4-10 (Damped oscillation): 30A/m 1MHz
	IEC61000-4-12/18 (Shockwave): CM2.5kV, DM1kV
	Protection level: IP40, Lightning protection: 6KV 8/20us
	IEC61000-4-4(EFT): Power cable: ±4kV, data cable: ±2kV
	IEC61000-4-16 (Common-mode transmission): 30V, 300V, 1s
	IEC61000-4-2 (ESD): ±8kV contact discharge, ±15kV air discharge
	IEC61000-4-6 (Radio frequency transmission): 10V(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
Machanical Proportion	IEC60068-2-6 (Anti Vibration), IEC60068-2-27 (Anti Shock),
Mechanical Properties	IEC60068-2-32 (Free Fall)
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	Unmanaged industrial PoE fiber switch with 2*1000M	
	uplink SFP fiber ports and 2*10/100/1000M RJ45 ports.	
	Port 1-2 can support IEEE 802.3 af/at PoE standard. It	36W/60W
	can support dual DC redundant power input (Phoenix	
	terminal connection) and DIN rail mounting.	

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

PACKING LIST

Packing List	Content	Qty	Unit
	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
	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
1.25G Optical	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
Module	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	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, 1.0A Output Voltage: DC48V, 1.25A Operation Temperature: -40℃ to +70℃	PC

RELATED PRODUCT

Model	Description		
	Unmanaged industrial PoE fiber switch with 2*10/100/1000M RJ45 ports		
ONV-IPS33032PF	and 1*1000M uplink SFP fiber port. Port 1-2 can support IEEE 802.3 af/at		
ONV-IF333032FF	PoE standard. It can support dual DC redundant power input (Phoenix		
	terminal connection) and DIN rail mounting.		
	Unmanaged industrial PoE fiber switch with 4*10/100/1000M RJ45 ports		
ONV-IPS33064PF	and 2*1000M uplink SFP fiber ports. Port 1-4 can support IEEE 802.3 af/at		
	PoE standard. It can support dual DC redundant power input (Phoenix		
	terminal connection) and DIN rail mounting.		
	Unmanaged industrial PoE fiber switch with 5*10/100/1000M RJ45 ports		
ONV-IPS33064PFG	and 1*1000M uplink SFP fiber port. Port 1-4 can support IEEE 802.3 af/at		
	PoE standard. It can support dual DC redundant power input (Phoenix		
	terminal connection) and DIN rail mounting.		
ONV-IPS33108PF	Unmanaged industrial PoE fiber switch with 8*10/100/1000M RJ45 ports		
	Unmanaged industrial PoE fiber switch with 5*10/100/1000M RJ45 ports and 1*1000M uplink SFP fiber port. Port 1-4 can support IEEE 802.3 af/a PoE standard. It can support dual DC redundant power input (Phoenix terminal connection) and DIN rail mounting.		

and 2*1000M uplink SFP fiber ports. Port 1-8 can support IEEE 802.3 af/at PoE standard. It can support dual DC redundant power input (Phoenix terminal connection) and DIN rail mounting.

CONTACT US

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