

## Product Datasheet

# 4-port Full Gigabit Industrial PoE Fiber Switch

## ONV-IPS33042PF



## OVERVIEW

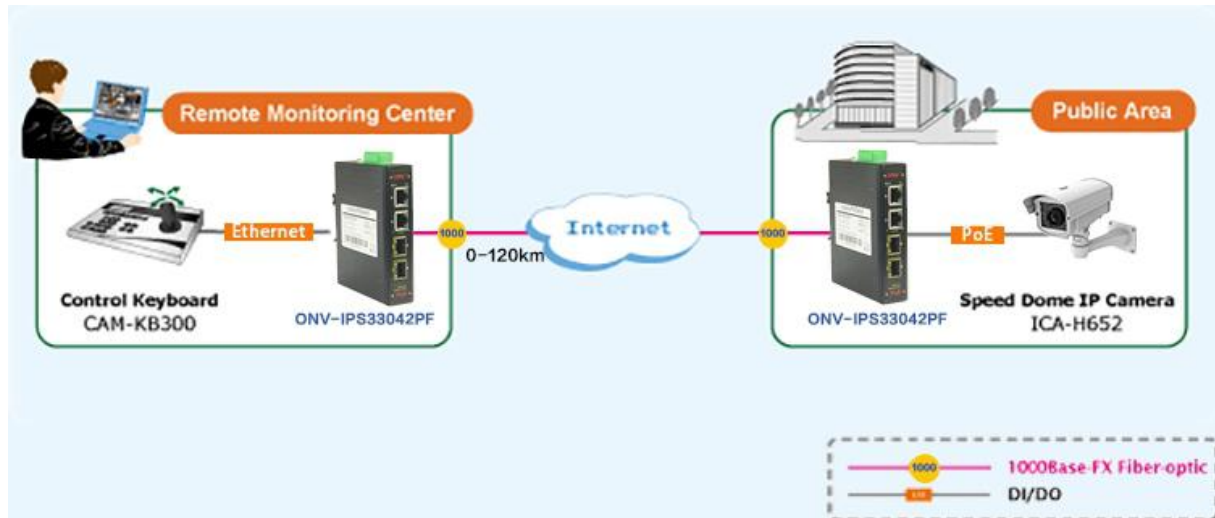
The ONV-IPS33042PF series is a full gigabit industrial PoE fiber switch. It has 2\*10/100/1000M PoE ports and 2\*1000M SFP fiber slot port. Port 1-2 can support IEEE 802.3af/at standard PoE power supply. the maximum PoE output power is less than 35W(at-60W). As a PoE power supply device, it can automatically detect and recognize the power receiving equipment that meets the standard and supply power through the network cable. It can supply power to POE terminal equipment such as wireless AP, web camera, VoIP phone, industrial sensor through network cable, and meet the network environment that needs high-density PoE power supply. It is suitable for intelligent transportation, rail transit, electric power, mining, metallurgy and green energy. Industrial scenes such as construction set up a cost-effective and stable communication network.

Unmanaged mode, plug and play, no configuration, easy to use.

## FEATURE

### ■ Gigabit access, uplink SFP fiber port

- ◇ All series support “Gigabit Ethernet port and Gigabit SFP port” combination, which enables users to flexibly build networking to meet the needs of various scenarios.
- ◇ Support non-blocking wire-speed forwarding.
- ◇ Support full-duplex based on IEEE802.3x and half-duplex based on backpressure.



### ■ Powerful port lightning protection, wide voltage input

- ◇ Contact discharge 8KV, air discharge 15KV; port lightning protection common-mode 4KV, differential mode 2KV;
- ◇ Industrial dual power input
- ◇ DC INPUT: 48V-57V, non-PoE DC INPUT: 12-48V



Contact discharge 8KV

Air discharge 15KV

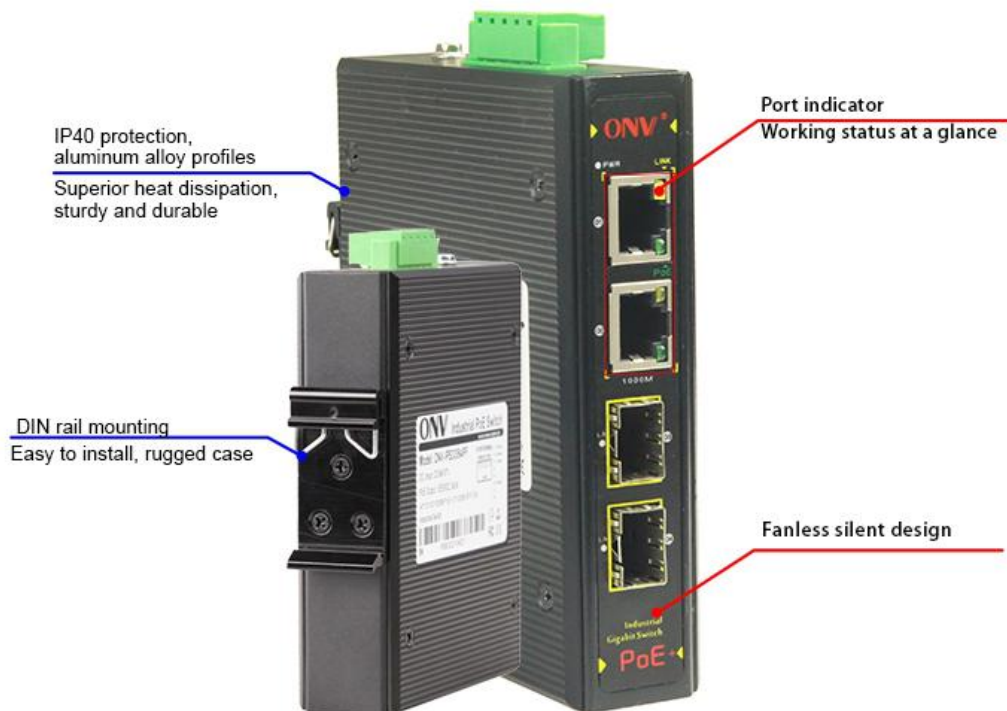
Port lightning protection 6KV

## ■ Intelligent PoE power supply

- ◇ 2\*10/100/1000Base-T RJ45 ports, meeting the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.
- ◇ IEEE 802.3af/at PoE standard, without damaging non-PoE devices.
- ◇ Priority system for PoE port, it 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

- ◇ Low power consumption, No fan, aluminum shell.
- ◇ CCC, CE, FCC, RoHS.
- ◇ The user-friendly panel, it can show the device status through the LED indicator of PWR, Link, PoE.



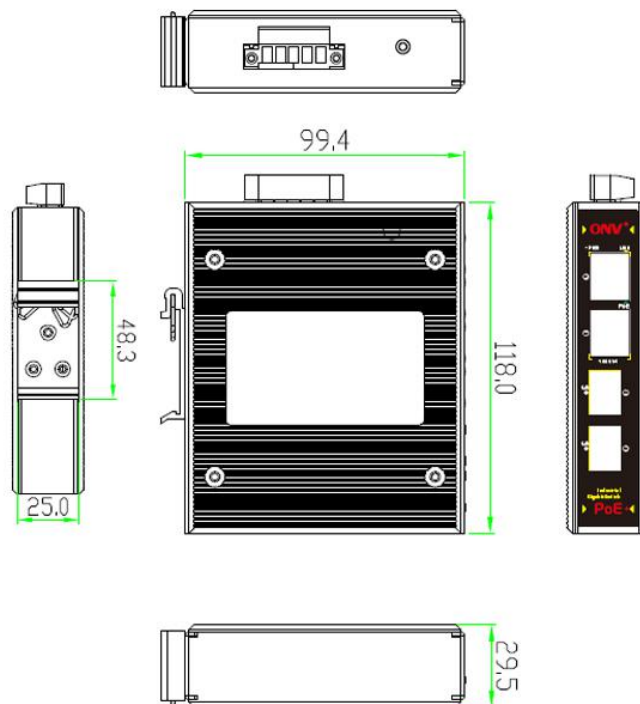
## TECHNICAL SPECIFICATION

Model	ONV-IPS33042PF	ONV-IPS33042PF-at
Interface	2*10/100/1000Base-T PoE ports (Data/Power) 2*1000Base-X uplink SFP fiber slot ports (Data) 2 set of V+, V- redundant DC power interface (5Pin Phoenix terminal)	
PoE Port	Port 1-2	
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX; IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-X IEEE802.3x	
PoE Standard	IEEE802.3af/at	
Ethernet Port Feature	Port 1-2 support 10/100/1000Base-T, auto-sensing, Full/half duplex MDI/MDI-X self-adaption	
SFP Port Characteristic	Gigabit SFP optical fiber interface, default matching optical modules (optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC)	
Forwarding Mode	Store and Forward(Full Wire Speed)	
Switching Capacity	8Gbps	
Forwarding Rate@64byte	5.95Mpps	
MAC	8K	
Buffer Memory	1M	
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-TX: Cat5 or later UTP(≤100 meter) 1000BASE-T: Cat5e or later UTP(≤100 meter)	

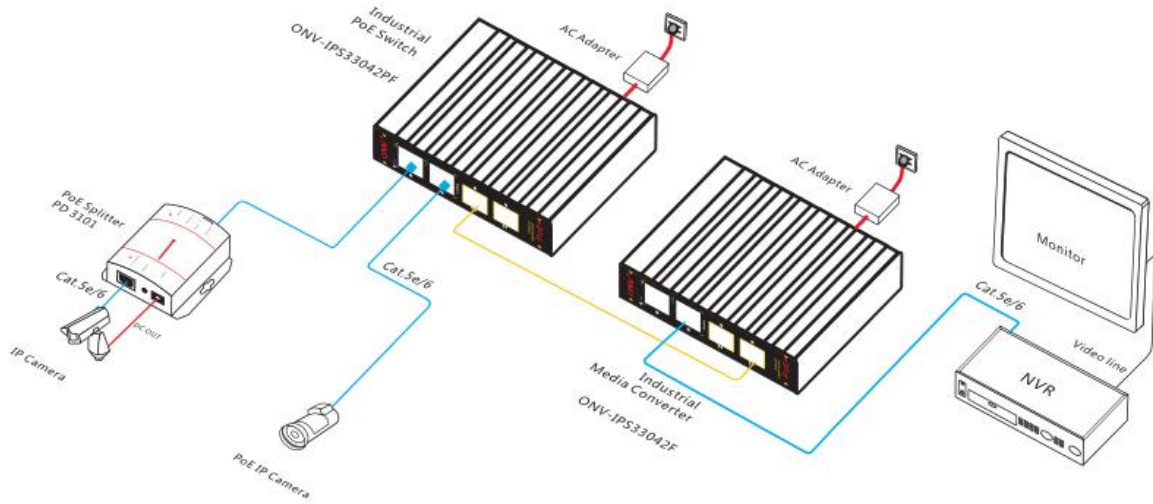
Optical Cable	Multi mode: 850nm 0 ~ 500M, single mode: 1310nm 0 ~ 40KM, 1550nm 0 ~ 120KM.	
Power Supply Pin	Default:1/2 (+), 3/6 (-) optional: 4/5(+),7/8(-)	
Max Power Per Port	30W; IEEE802.3af/at	
Total PWR / Input Voltage	36W/48VDC	60W/48VDC
Power Consumption	Standby:<4W; Full load:<32W	Standby:<5W; Full load:<60W
Working Voltage	48-57VDC; 5P industrial phoenix terminal, anti-reverse protection.	
LED Indicator	Power: PWR (green), Network: Link ,Link/Act (yellow),PoE: PoE (green)	
Power Supply	No, optional 48V/36W or 48V/60W industrial power supply	
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	<0.6kg / <0.8kg	
Installation	Desktop, 35mm DIN rail	
Lightning protection / protection level	<p>Lightning protection: 6KV 8/20us; Protection level: IP40</p> <p>IEC61000-4-2(ESD):±8kV contact discharge,±15kV air discharge</p> <p>IEC61000-4-3(RS):10V/m(80~1000MHz)</p> <p>IEC61000-4-4(EFT): power cable:±4kV; data cable:±2kV</p> <p>IEC61000-4-5(Surge):power cable:CM±4kV/DM±2kV; data cable:±4kV</p> <p>IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz)</p> <p>IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m ,1s to 3s</p> <p>IEC61000-4-9(pulsed magnet field):1000A/m</p> <p>IEC61000-4-10(damped oscillation):30A/m 1MHz</p> <p>IEC61000-4-12/18(shockwave):CM 2.5kV,DM 1kV</p>	

	IEC61000-4-16(common-mode transmission):30V; 300V,1s FCC Part 15/CISPR22(EN55022):Class A IEC61000-6-2(Common Industrial Standard)
Mechanical Properties	IEC60068-2-6 (anti vibration),IEC60068-2-27 (anti shock),IEC60068-2-32 (free fall)
Certification	CCC;CE mark, commercial; CE/LVD EN60950;FCC Part 15 Class B;RoHS;
Warranty	5 years , lifelong maintenance.

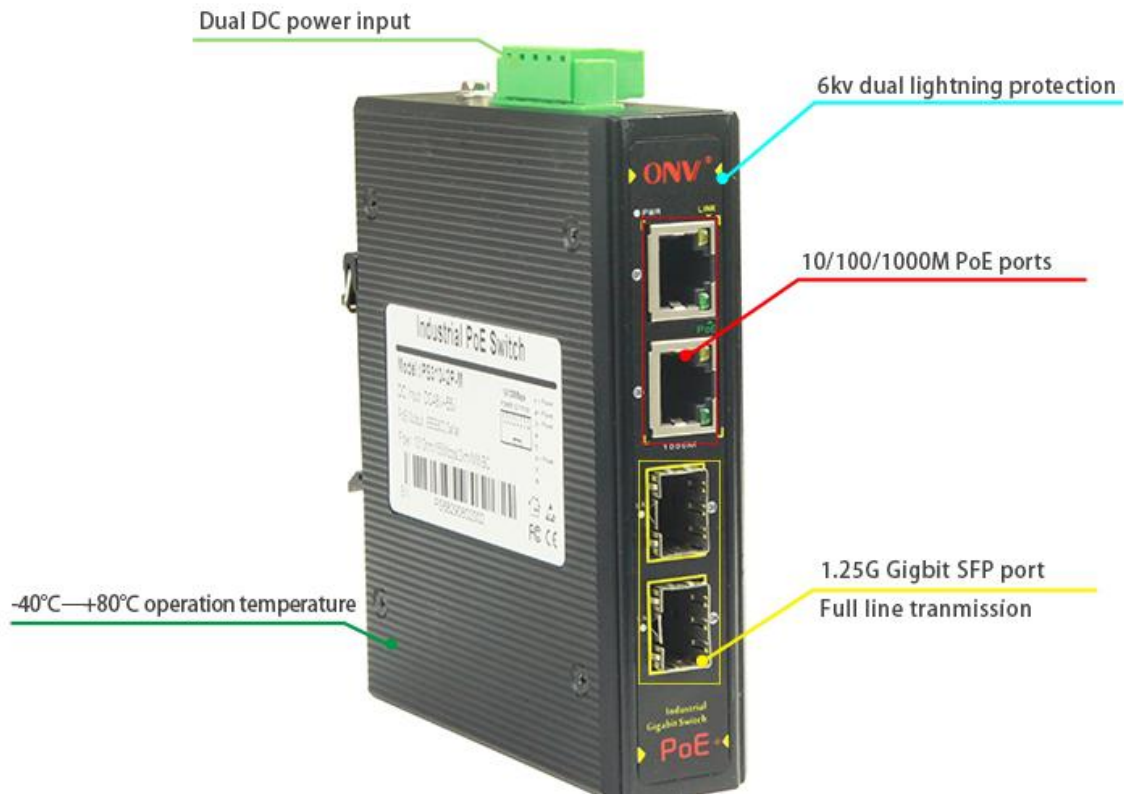
## DIMENSION



# APPLICATION



## Product Overview



## ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS33042PF	Unmanaged industrial PoE fiber switch with 2*10/100/1000M RJ45 ports and 2*1000M uplink SFP slot port, Port 1-2 can support IEEE802.3af/at PoE.	<35W
ONV-IPS33042PF-at	Support DC dual power supply input and DIN rail mounting.	<60W

**Note:** Industrial PoE switch does not match the SFP optical module and power supply.

## PACKING LIST

	CONTENT	QTY	UNIT
PACKING LIST	4-port Full Gigabit Industrial PoE fiber switch	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

## OPTICAL MODULE INFORMATION

Product	Model	Description	Unit
1.25G Optical Module	ONV-2630	SFP optical module, 1.25G, multi mode dual fiber 850nm, transmission distance: 550m, LC interface, support DDM function, support hot plug and pull.	PC
	ONV-2632	SFP optical module, 1.25G, single-mode dual fiber 1310nm, transmission distance: 20km, LC interface,	PC

		support DDM function, support hot plug and pull.	
	ONV-2612-T	SFP optical module, 1.25G, single-mode single fiber TX1310nm/RX1550nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC
	ONV-2613-R	SFP optical module, 1.25G, single-mode single fiber TX1550nm/RX1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC
	2612-T-G	Industrial SFP optical module, 1.25G, single-mode single fiber TX1310nm/RX1550nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC
	2613-R-G	Industrial SFP optical module, 1.25G, single-mode single fiber TX1550nm/RX1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC
	ONV-2612-T-S C	SFP optical module, 1.25G, single-mode single fiber TX1310nm/RX1550nm, transmission distance: 20km, SC interface, support DDM function, support hot plug and pull.	PC
	ONV-2613-R-S C	SFP optical module, 1.25G, single-mode single fiber TX1550nm/RX1310nm, transmission distance: 20km, SC interface, support DDM function, support hot plug and pull.	PC
Power Module	ONV-2633	1.25G SFP optical module transfers to 10/100/1000M RJ45 port.	PC

## POWER SUPPLY SELECTION TABLE

Product	Model	Description	Unit
36W Desktop Power Adaptor	GWS-AP36-52	Desktop tape 36W single set of output power adapter; Input Voltage:AC 100V~240V 50-60Hz,0.56A Output Voltage:DC 52V 0.7A Operation Temperature:-20℃—+65℃	PC
65W Desktop Power Adaptor	GWS-AP65-52	Desktop tape 65W single set of output power adapter; Input Voltage:AC 100V~240V 50-60Hz,1.1A Output Voltage:DC 52V 1.25A Operation Temperature:-20℃—+65℃	PC
36W DIN Rail Industrial Power Supply	GWS-DP36-48	Din Rail type 36W single set of output power supply; Input Voltage:AC 100V~240V 50-60Hz, 0.56A Output Voltage:DC 24V 0.75A Operation Temperature:-40℃—+70℃	PC
60W DIN Rail Industrial Power Supply	GWS-DP60-48	Din Rail type 60W single set of output power supply; Input Voltage:AC 100V~240V 50-60Hz,1A Output Voltage:DC 48V 1.25A Operation Temperature:-40℃—+70℃	PC

## CONTACT US



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