

## Product Datasheet

# 6-port 10/100M Industrial PoE Switch

(ONV-IPS31064P)



## OVERVIEW

The ONV-IPS31064P is a 10/100M industrial PoE switch independently developed by ONV. It has 6\*10/100M adaptive RJ45 ports. Port 1-4 can support IEEE 802.3 af/at PoE standard and single-port PoE power reaches 30W. As a PoE power supply device, it can automatically detect and recognize power-receiving devices that meet the standard and supply power through the network cable. It can supply power to PoE terminal equipment such as wireless AP, IP camera, VoIP, and industrial sensors through the network cable, and meet the network environment that needs a high-density PoE power supply. It is suitable for intelligent transportation, rail transit, power industry, mining, petroleum, and industrial scenes such as shipping, metallurgy, and green energy construction forming a cost-effective, stable, and reliable communication network. Unmanaged mode, plug and play, no configuration, easy to use.

## FEATURE

- **10/100M access, full wire transmission**
  - ◇ Support non-blocking wire-speed forwarding.
  - ◇ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.
  - ◇ Support 10/100M PoE port and dual RJ45 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.
- ◇ 4\*10/100Base-TX RJ45 port support PoE power supply to meet the needs of PoE power supply in various scenarios in the industrial field.
- ◇ 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

- ◇ CCC, CE, FCC, RoHS.
- ◇ Low power consumption, no fan, aluminum shell, and excellent heat dissipation to ensure the stable operation of the switch.
- ◇ The user-friendly panel can show the device status through the LED indicator of PWR, Link, and PoE.

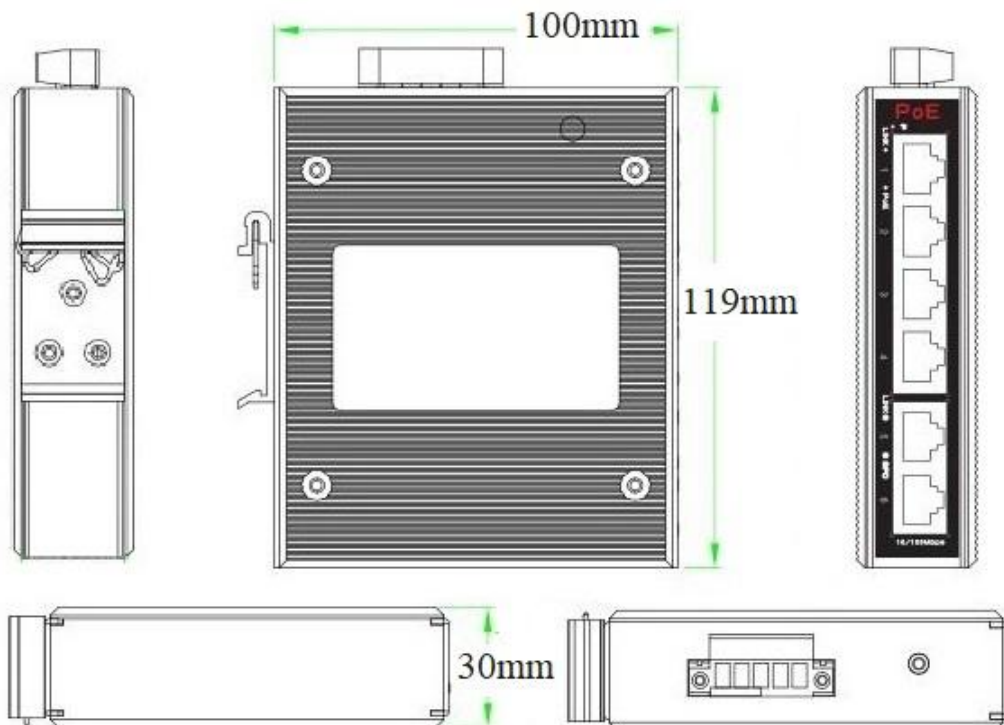
## TECHNICAL SPECIFICATION

Model	ONV-IPS31064P
<b>Interface Characteristics</b>	
Fixed Port	2*10/100Base-TX uplink RJ45 ports (Data) 4*10/100Base-TX PoE ports (Data/ Power) 2 set of V+, V- redundant DC power interface (5 Pin Phoenix terminal)
Twisted Pair	10BASE-T: Cat3,4,5 UTP (≤100 meters)
Transmission	100BASE-T: Cat5e or later UTP (≤100 meters)
Ethernet Port	Port 1-6 can support 10/100Base-TX auto-sensing, full/ half duplex MDI/ MDI-X self-adaption
<b>Chip Parameter</b>	
Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX,

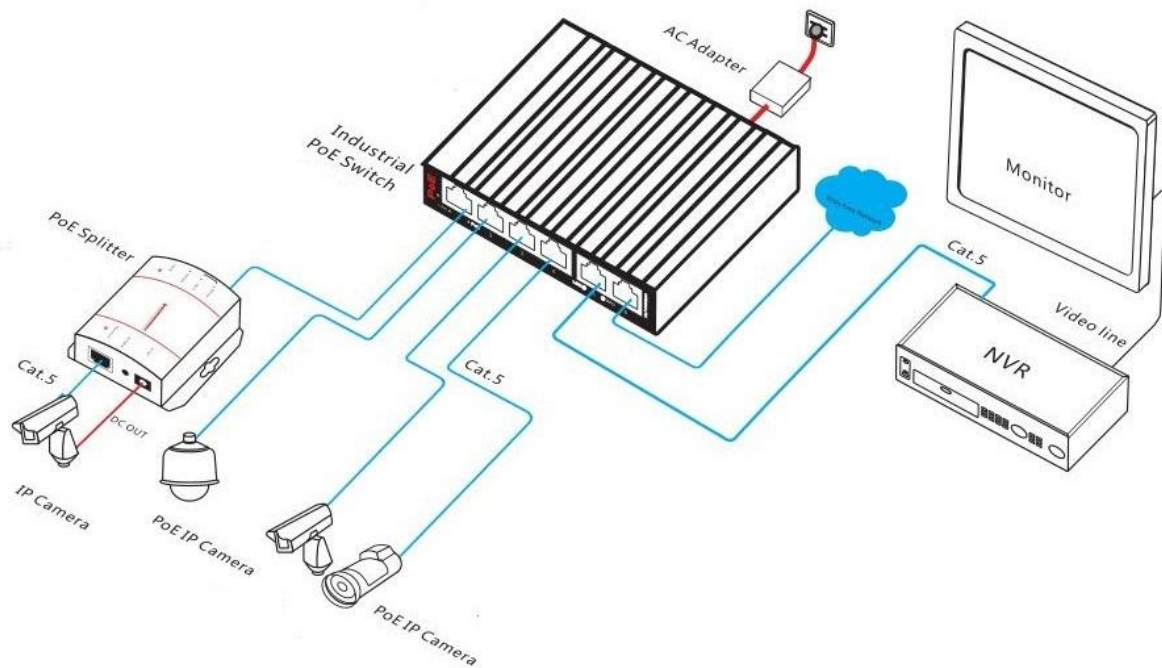
	IEEE 802.3u 100Base-FX, IEEE 802.3x
Forwarding Mode	Store and Forward (Full Wire Speed)
Switching Capacity	1.6Gbps
Forwarding Rate @64byte	0.89Mpps
MAC	1K
Buffer Memory	768K
Jumbo Frame	1536bytes
LED Indicator	Power: PWR (Green), Network: Link (Yellow), PoE: PoE (Green)
<b>PoE &amp; Power Supply</b>	
PoE Port	Port 1-4
Power Supply Pin	1/2(+) 3/6 (-)
Max Power Per Port	30W, IEEE 802.3 af/at
Power Consumption	Standby<3W, Full load af<60W, at<120W
Working Voltage	DC48-57V, 5 Pin industrial Phoenix terminal, support anti-reverse protection.
Power Supply	No, optional 48V/60W or 48V/120W industrial power supply
<b>Physical Parameter</b>	
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)	119*100*30mm
Net /Gross Weight	0.4kg /0.5kg
Installation	Desktop, 35mm DIN Rail
<b>Certification &amp; Warranty</b>	
Lightning Protection	Protection level: IP40 Lightning protection: 6KV 8/20us IEC61000-4-3 (RS):10V/m (80~1000MHZ) FCC Part 15/CISPR22 (EN55022): Class B

	<p>IEC61000-6-2 (Common Industrial Standard)</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> <p>IEC61000-4-4(EFT): Power cable: <math>\pm 4kV</math>; data cable: <math>\pm 2kV</math></p> <p>IEC61000-4-16 (Common-mode transmission): 30V, 300V,1s</p> <p>IEC61000-4-2 (ESD): <math>\pm 8kV</math> contact discharge, <math>\pm 15kV</math> air discharge</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-3s</p> <p>IEC61000-4-5 (Surge): Power cable: CM<math>\pm 4kV</math>/ DM<math>\pm 2kV</math>, data cable: <math>\pm 4kV</math></p>
Mechanical Properties	IEC60068-2-6 (Anti Vibration), IEC60068-2-27 (Anti Shock), IEC60068-2-32 (Free Fall)
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B, RoHS
Warranty	5 years, lifelong maintenance.

## DIMENSION



## APPLICATION



## ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS31064P	Unmanaged industrial PoE switch with 6*10/100M RJ45 ports. Port 1-4 can support IEEE 802.3 af/at PoE standard. It can support dual DC power input and DIN rail mounting.	60W/120W

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

## PACKING LIST

	Content	Qty	Unit
Packing List	6-port 10/100M industrial PoE switch	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

## POWER SUPPLY

Product	Model	Description	Unit
65W Desktop Power Adapter	GWS-AP65-52	Desktop 65W single set of output power adapter Input Voltage: AC100V~240V 50-60Hz, 1.1A Output Voltage: DC52V, 1.25A Operation Temperature: -20°C to +65°C	PC
110W Desktop Power Adapter	GWS-AP110-52	Desktop 110W single set of output power adapter Input Voltage: AC100V~240V 50-60Hz, 2.0A Output Voltage: DC52V, 2.0A Operation Temperature: -20°C to +65°C	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°C to +70°C	PC
120W DIN Rail Industrial Power Supply	GWS-DP120-48	DIN Rail 120W single set of output power supply Input Voltage: AC100V~240V 50-60Hz, 1.5A Output Voltage: DC48V, 2.5A Operation Temperature: -40°C to +70°C	PC

## RELATED PRODUCT

Model	Description
ONV-IPS31021PFS	Unmanaged industrial PoE fiber switch with 1*10/100M RJ45 port and 1*155M uplink SC fiber port (1310nm/ 20km single-mode dual fiber optical module). Port 1 can support IEEE 802.3 af/at PoE standard. It can support dual DC power input and DIN rail mounting
ONV-IPS31032PFS	Unmanaged industrial PoE fiber switch with 2*10/100M RJ45 port and 1*155M uplink SC fiber port (1310nm/ 20km single-mode dual fiber optical

	module). Port 1-2 can support IEEE 802.3 af/at PoE standard. It can support dual DC power input and DIN rail mounting
ONV-IPS31064PF	Unmanaged industrial PoE fiber switch with 4*10/100M RJ45 ports and 2*155M uplink SC fiber ports. Port 1-4 can support IEEE 802.3 af/at PoE standard. It can support dual DC power input and DIN rail mounting
ONV-IPS31128PFB	Unmanaged industrial PoE fiber switch with 8*10/100M RJ45 ports and 2*10/100/1000M RJ45 ports and 2*1000M uplink SFP fiber ports. Port 1-8 can support IEEE 802.3 af/at PoE standard. It can support dual DC power input and DIN rail mounting

## CONTACT US

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