

Product Datasheet

6-port 10/100M Industrial bt PoE Switch

(ONV-IPS31064P-bt)



OVERVIEW

The ONV-IPS31064P-bt is a 10/100M industrial bt PoE switch independently developed by ONV. It has 6*10/100Base-TX adaptive RJ45 ports. Port 1-4 can support IEEE 802.3 af/at/bt PoE power supply, and the single-port PoE power is up to 90W. 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 provides stable and safe terminals for PTZ network domes, high-power wireless AP, high-power network multimedia speakers, and high-power PoE lighting through a network cable to meet the network environment that needs a high-density PoE power supply. It is suitable for intelligent transportation, rail transit, electric power, mining, metallurgy, green energy, and industrial scenes such as construction to set up a cost-effective and stable communication network. Unmanaged mode, plug and play, no configuration, easy to use.

FEATURE

- **10/100M access**
- ◇ Support non-blocking wire-speed forwarding.

- ◇ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.
- ◇ Support 10/100M bt 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

- ◇ 4*10/100Base-TX RJ45 ports can support bt PoE power supply, meeting the demand for super high power PoE power supply in various scenarios.
- ◇ The max single-port output power PoE is 90W backward compatibility IEEE802.3 af/at PoE power supply standard automatically identifies PoE devices for power supply without damaging non-PoE devices.

■ 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 the stable operation of the switch.

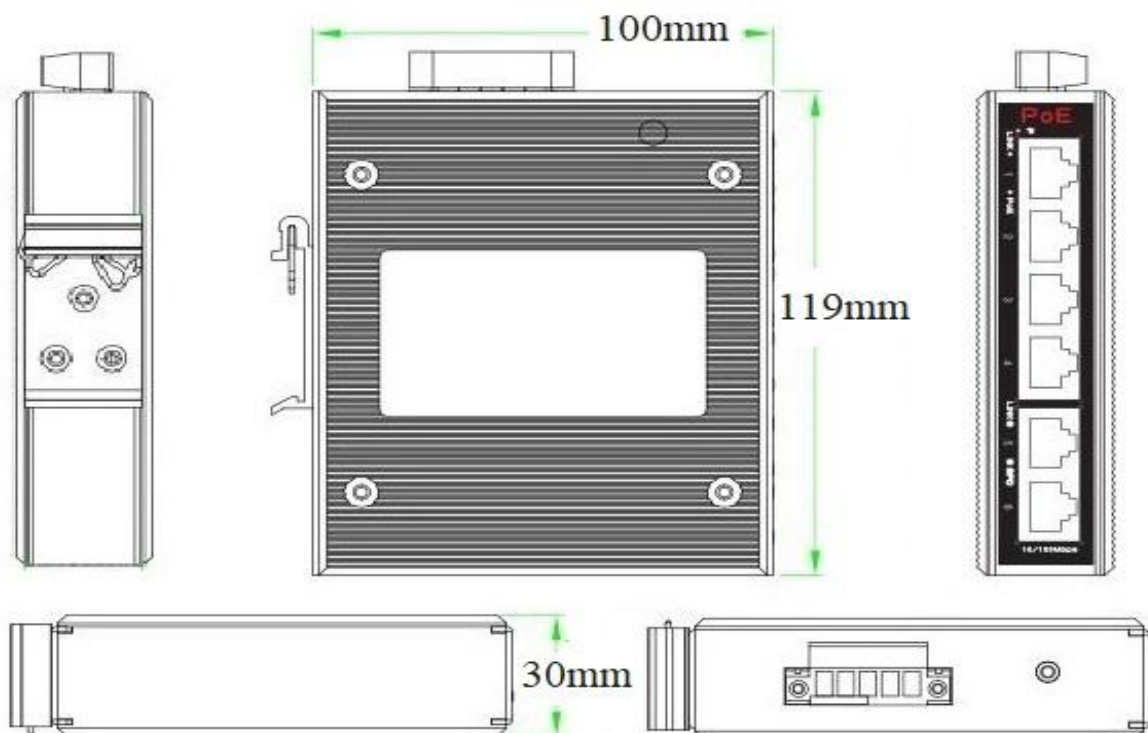
TECHNICAL SPECIFICATION

Model	ONV-IPS31064P-bt
Interface Characteristics	
Fixed Port	2*10/100Base-TX uplink RJ45 ports (Data) 4*10/100Base-TX bt PoE ports (Data/ Power) 2 set V+, V- redundant DC power port (5P industrial Phoenix terminal)
Ethernet Port	10BASE-T: Cat3,4,5 UTP (≤100 meters) 100BASE-T: Cat5e or later UTP (≤100 meters)
Twisted Pair Transmission	Port 1-6 can support 10/100Base-TX auto-sensing, full/ half duplex MDI/ MDI-X self-adaption
Chip Parameter	

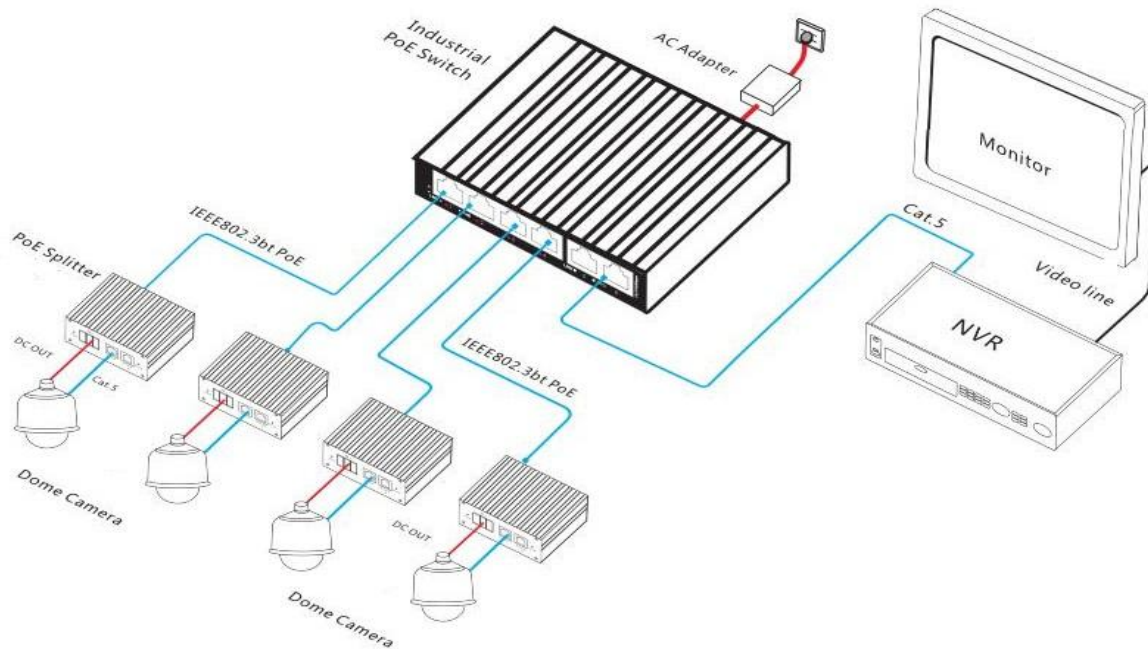
Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3x
Forwarding Mode	Store and Forward(Full Wire Speed)
Switching Capacity	1.6Gbps (non-blocking)
Forwarding Rate@64byte	0.89Mpps
MAC	2K
Buffer Memory	768K
Jumbo Frame	1536bytes
LED Indicator	Power: PWR (Green), Network: Link (Yellow), PoE: PoE (Green)
PoE& Power Supply	
PoE Port	Port 1-4
Power Supply Pin	1/2(+) 3/6(-) 4/5(+) 7/8(-)
Max Power Per Port	90W, IEEE 802.3 af/at/bt
Power Consumption	Standby<4W, Full Load af<60W, at<120W, bt<240W
Input Voltage/ Interface	DC48-57V, 5P industrial phoenix terminal, anti-reverse protection
Power Supply	No, optional 48V/240W industrial power supply
Physical Parameter	
Operation Temp/ Humidity	-20~+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
Certification & Warranty	
Lightning Protection	Protection level: IP40 Lightning protection: 6KV 8/20us 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 magnet field): 1000A/m

	<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: $\pm 4\text{kV}$, data cable: $\pm 2\text{kV}$</p> <p>IEC61000-4-16 (Common-mode transmission): 30V, 300V, 1s</p> <p>IEC61000-4-2 (ESD): $\pm 8\text{kV}$ contact discharge, $\pm 15\text{kV}$ 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$\pm 4\text{kV}$/ DM$\pm 2\text{kV}$, data cable: $\pm 4\text{kV}$</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 A, RoHS
Warranty	5 years, lifelong maintenance.

DIMENSION



APPLICATION



ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS31064P-bt	Unmanaged industrial bt PoE switch with 6*10/100M RJ45 ports. Port 1-4 can support IEEE 802.3 af/at/bt PoE standard. It can support dual DC redundant power input and DIN rail mounting.	240W

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

PACKING LIST

	Content	Qty	Unit
Packing List	6-port 10/100M industrial bt PoE switch	1	Set
	User Guide	1	PC
	Warranty Card and Certificate of Conformity	1	PC

POWER SUPPLY

Product	Model	Description	Unit
240W DIN Rail Industrial Power Supply	GWS-DP240-48	DIN Rail 240W single set of output power supply Input Voltage: AC100V~240V 50-60Hz, 3.0A Output Voltage: DC48V, 5.0A Operation Temperature: -40°C to +70°C	PC

RELATED PRODUCT

Model	Description
ONV-IPS31004PF-bt	Unmanaged industrial bt PoE switch with 4*10/100M RJ45 ports and 1*155M uplink SFP fiber port. Port 1-4 can support IEEE 802.3 af/at/bt PoE standard. It can support dual DC redundant power input (5P Phoenix terminal connection) and DIN rail mounting.
ONV-IPS33064P-bt	Unmanaged industrial bt PoE switch with 6*10/100/1000M RJ45 ports. Port 1-4 can support IEEE 802.3 af/at/bt PoE standard. It can support dual DC redundant power input (5P Phoenix terminal connection) and DIN rail mounting.
ONV-IPS33064PFG-bt	Unmanaged industrial bt PoE switch with 5*10/100/1000M RJ45 ports and 1*1000M uplink SFP fiber port. Port 1-4 can support IEEE 802.3 af/at/bt PoE standard. It can support dual DC redundant power input (5P Phoenix terminal connection) and DIN rail mounting.
ONV-IPS33064PF-bt	Unmanaged industrial bt PoE switch with 4*10/100/1000M RJ45 ports and 2*1000M uplink SFP fiber ports. Port 1-4 can support IEEE 802.3 af/at/bt PoE standard. It can support dual DC redundant power input (5P Phoenix terminal connection) and DIN rail mounting.
ONV-IPS33064PFM-bt	L2+ managed industrial bt PoE switch with 4*10/100/1000M RJ45 ports and 2*100/1000M uplink SFP fiber ports. Port 1-4 can support IEEE

802.3 af/at/bt PoE standard. It can support dual DC redundant power input (5P 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](https://www.skype.com/people/onv@onv.com.cn)

WeChat ID: ONV-PoE-IoT

Website: www.onvcom.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

