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 RJ45 ports. Port 1-4 IEEE 802.3 af/at/bt PoE standard and single-port PoE power output is 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.

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FEATURE

■ **10/100M access, Full-line speed 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**

◇ 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.

◇ 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.
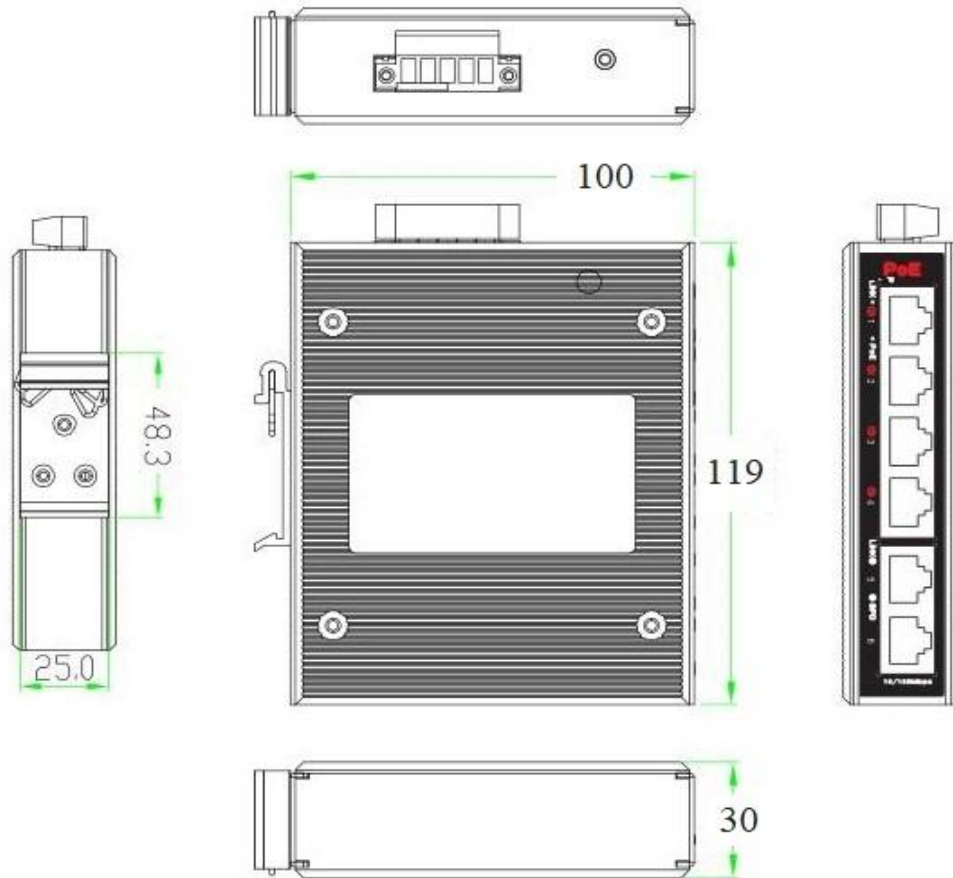
■ **Stable and reliable**

◇ CCC, CE, FCC, RoHS.

◇ 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.
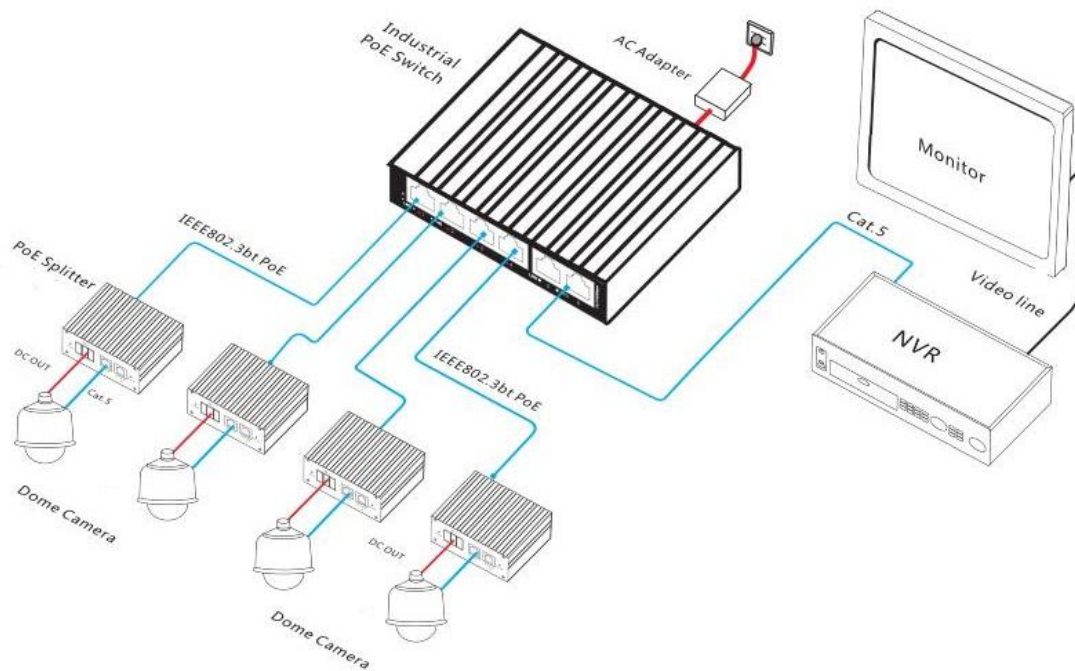
TECHNICAL SPECIFICATION

Model	ONV-IPS31064P-bt
Interface Characteristics	
Fixed Port	2*10/100Base-TX uplink RJ45 ports (Data) 4*10/100Base-TX bt PoE ports (Data/ Power) 2 set of V+, V- redundant DC power interface (5 Pin 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	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T IEEE802.3u 100Base-TX, IEEE802.3u 100Base-FX, IEEE802.3x
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)
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

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Power Supply	No, optional 48V/120W or 48V/240W or 48V/480W 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 B 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): CM 2.5kV, DM 1kV 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
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

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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 power input and DIN rail mounting.	60W/120W/240W

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

PACKING LIST

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

POWER SUPPLY

Product	Model	Description	Unit
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
120W DIN Rail Industrial Power Supply	GWS-DP120-48	DIN Rail 120W single set of output power supply Input Voltage: AC100V~240V 50-60Hz, 2.0A Output Voltage: DC48V, 2.5A Operation Temperature: -40℃ to +70℃	PC
240W DIN Rail Industrial Power	GWS-DP240-48	DIN Rail 240W single set of output power supply Input Voltage: AC100V~240V 50-60Hz, 3.0A	PC

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| Supply | | Output Voltage: DC48V, 5.0A

Operation Temperature: -40℃ to +70℃ | |

RELATED PRODUCT

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

CONTACT US

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