**Product Datasheet**

# 6-port 10/100M bt Industrial PoE Switch

## (ONV-IPS31064P-bt)



## OVERVIEW

The ONV-IPS31064P-bt is a 10/100M unmanaged bt industrial PoE switch independently developed by ONV. It has 6*10/100Base-TX RJ45 ports. Port 1-4 can support IEEE802.3af/at/bt PoE standard. 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, etc. through a network cable to 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 model, plug and play, no configuration, easy to use.

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# FEATURE

■ **10/100Mbps access, Full-line speed transmission**

◇ The combination of 10/100M RJ45 port and dual RJ45 ports is convenient for users to flexibly network to meet the networking requirements of various scenes

◇ Support non-blocking wire-speed forwarding.

◇ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.

■ **Smart PoE power supply function**

◇ 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 maximum output power of single-port POE is 90W, and the backwards compatibility IEEE802.3af/at PoE power supply standard automatically identifies PoE devices for power supply 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.
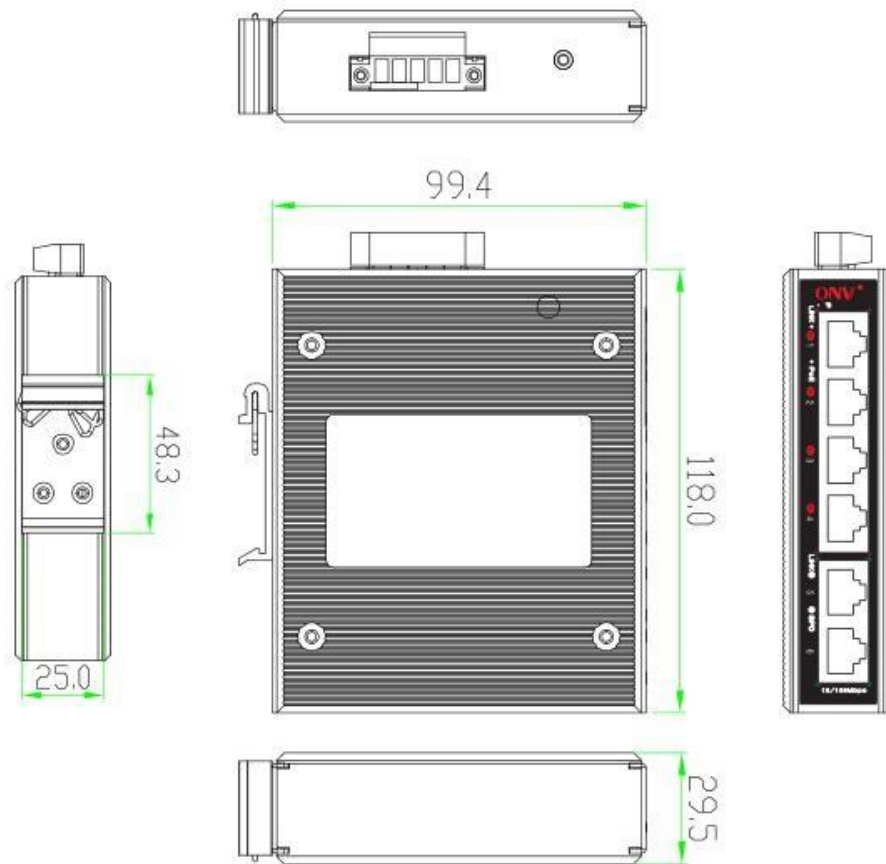
■ **Stable and reliable**

◇ CCC,CE, FCC, RoHS.

◇ Low power consumption, aluminum alloy casing, No fan.

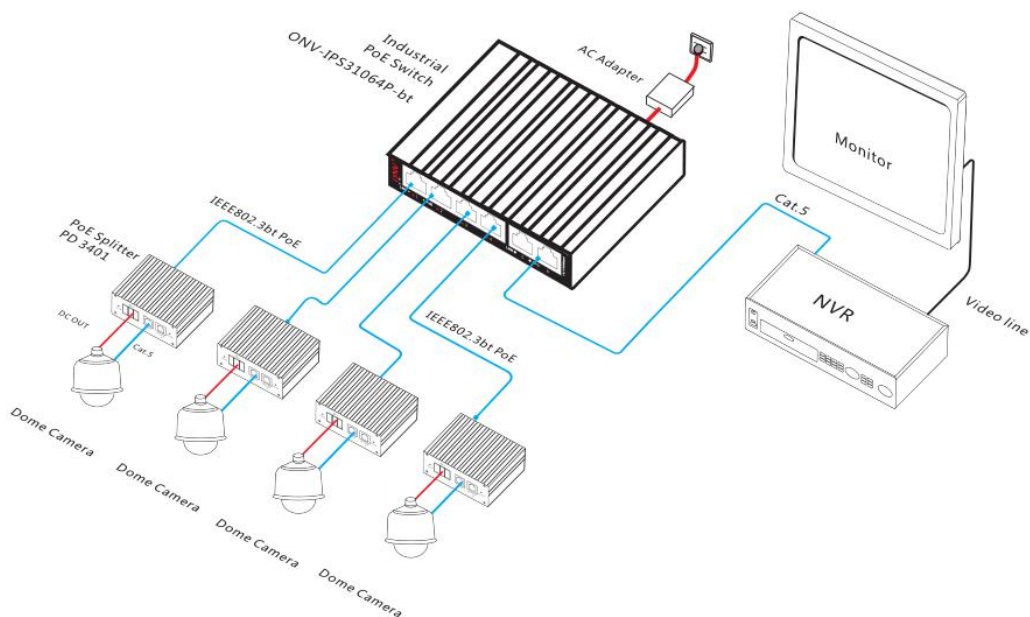◇ The user-friendly panel can show the device status through the LED indicator of PWR, Link, PoE.

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# TECHNICAL SPECIFICATION

| Model | ONV-IPS31064P-bt |
|---|---|
| **Interface Characteristics** | |
| Fixed Port | 4*10/100Base-TX bt PoE ports (Data /Power) <br><br> 2*10/100Base-TX uplink RJ45 port (Data) <br><br> 2 group of V+, V- redundant DC power interface (5P Phoenix terminal) |
| Ethernet Port | Port 1-6 can support 10/100Base-TX auto-sensing,full/half duplex <br><br> MDI/MDI-X self-adaption |
| Twisted Pair Transmission | 10BASE-T: Cat3,4,5 UTP(≤100 meter) <br><br> 100BASE-TX: Cat5e or later UTP(≤100 meter) |
| **Chip Parameter** | |
| Network Protocol | IEEE802.3 10BASE-T, IEEE802.3i 10Base-T <br><br> IEEE802.3u 100Base-TX, IEEE802.3u 100Base-FX , IEEE802.3x |
| Forwarding Mode | Store and Forward(Full Wire Speed) |
| Switching Capacity | 1.6Gbps (Non-blocking) |
| 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 to 4 @bt POE and backward compatible with IEEE802.3af/at |
| Power Supply Pin | Default 1/2 (+), 3/6 (-), 4/5 (+), 7/8 (-) |
| Max Power Per Port | 90W, IEEE802.3af/at/bt |
| Power Consumption | Standby<4W, Full Load<240W |
| Input Voltage / Interface | 48-57VDC, 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 | <0.5kg /<0.7kg |
| Installation | Desktop, 35mm DIN rail mounting |
| **Certification & Warranty** | |
| Lightning Protection | Lightning protection: 6KV 8/20us; Protection level: IP40<br><br>IEC61000-4-2(ESD):±8kV contact discharge,±15kV air discharge<br><br>IEC61000-4-3(RS):10V/m(80~1000MHz)<br><br>IEC61000-4-4(EFT): power cable:±4kV; data cable:±2kV<br><br>IEC61000-4-5(Surge):power cable:CM±4kV/DM±2kV; data cable:±4kV<br><br>IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz)<br><br>IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m ,1s to 3s<br><br>IEC61000-4-9(pulsed magnet field):1000A/m<br><br>IEC61000-4-10(damped oscillation):30A/m    1MHz<br><br>IEC61000-4-12/18(shockwave):CM 2.5kV,DM 1kV<br><br>IEC61000-4-16(common-mode transmission):30V; 300V,1s<br><br>FCC Part 15/CISPR22(EN55022):Class B<br><br>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

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# ORDERING INFORMATION

| Model | Description | Configure Power Supply |
|---|---|---|
| ONV-IPS31064P-bt | Unmanaged bt industrial PoE switch with 4*10/100M bt PoE ports and 2*10/100M RJ45 port. Port 1-4 can support IEEE802.3af/at/bt PoE standard. It can support dual DC redundant power input and DIN rail mounting. | 240W |

**Note:** bt industrial PoE switch does not include the power supply.

# 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 SELECTION TABLE

| Product | Model | Description | Unit |
|---|---|---|---|
| 120W DIN Rail Industrial Power Supply | GWS-DP120-48 | Din Rail type 120W single set of output power supply<br>Input Voltage:AC 100V~240V 50-60Hz,2A<br>Output Voltage:DC 48V 2.5A | PC |

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| | | Operation Temperature:-40℃—+70℃ | |
|---|---|---|---|
| 240W DIN Rail Industrial Power Supply | GWS-DP240-48 | Din Rail type 240W single set of output power supply<br>Input Voltage:AC 100V~240V 50-60Hz,3A<br>Output Voltage:DC 48V 5A<br>Operation Temperature:-40℃—+70℃ | PC |
| 480W DIN Rail Industrial Power Supply | GWS-DP480-48 | Din Rail type 480W single set of output power supply<br>Input Voltage:AC 100V~240V 50-60Hz,5A<br>Output Voltage:DC 48V 10A<br>Operation Temperature:-40℃—+70℃ | PC |

## RELATED PRODUCT

| Model | Description |
|---|---|
| ONV-IPS31064PFG-bt | Unmanaged bt industrial PoE fiber switch with 4*10/100M bt PoE ports and 1*10/100/1000M RJ45 port and 1*1000M SFP slot port. Port 1-4 can support IEEE802.3af/at/bt PoE standard. It can support dual DC redundant power input and DIN rail mounting. |
| ONV-IPS31064PF-bt | Unmanaged bt industrial PoE fiber switch with 4*10/100M bt PoE ports and 2*155M uplink SFP ports. Port 1-4 can support IEEE802.3af/at/bt PoE standard. It can support dual DC redundant power input and DIN rail mounting. |
| ONV-IPS33064P-bt | Unmanaged bt industrial PoE fiber switch with 4*10/100/1000M bt PoE and 2*10/100/1000M RJ45 ports. Port 1-4 can support IEEE802.3af/at/bt PoE standard. It can support dual DC redundant power input and DIN rail |

| | |
|---|---|
| | mounting. |
| ONV-IPS33064PFG-bt | Unmanaged bt industrial PoE fiber switch with 4*10/100/1000M bt PoE ports and 1*10/100/1000M RJ45 port and 1*1000M uplink SFP port. Port 1-4 can support IEEE802.3af/at/bt PoE standard. It can support dual DC redundant power input and DIN rail mounting. |
| ONV-IPS33064PF-bt | Unmanaged industrial bt PoE fiber switch with 4*10/100/1000M bt PoE ports and 2*1000M uplink SFP ports. Port 1-4 can support IEEE802.3af/at/bt PoE standard. It can support dual DC redundant power input and DIN rail mounting. |
| ONV-IPS33064PFM-bt | L2+ managed industrial bt PoE fiber switch with 4*10/100/1000M bt PoE ports and 2*100/1000M uplink SFP ports. Port 1-4 can support IEEE802.3af/at/bt PoE standard. It can support dual DC redundant power input and DIN rail mounting. |

## CONTACT US

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