**Product Datasheet**

# 5-port 10/100M Industrial PoE Switch
## (ONV-IPS1005P)



## OVERVIEW

The ONV-IPS1005P is a 10/100M industrial PoE switch independently developed by ONV. It has 5*10/100M RJ45 ports. Port 1-4 can support IEEE 802.3 af/at PoE standard, and single-port PoE power up to 30W. As a PoE power supply device can automatically detect and recognize the power-receiving equipment that meets the standard and supplies power through the network cable. It can supply power to PoE terminal equipment such as wireless AP, IP cameras, VoIP phones, and industrial sensors through network cables, and meet the network environment that needs a high-density PoE power supply. It is suitable for intelligent transportation, rail transit, electric power, mining, metallurgy and 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 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**

◇  IEEE 802.3 af/at PoE standard, without damaging non-PoE devices.

◇  4*10/100Base-TX RJ45 ports 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.

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

◇  Low power consumption, no fan, aluminum shell, excellent heat dissipation to ensure the stable operation of the switch.
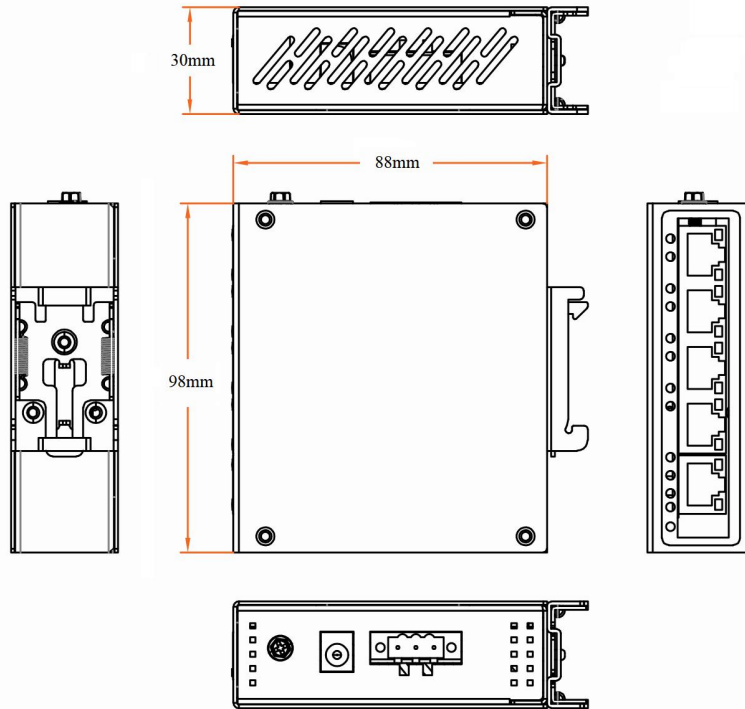
# TECHNICAL SPECIFICATION

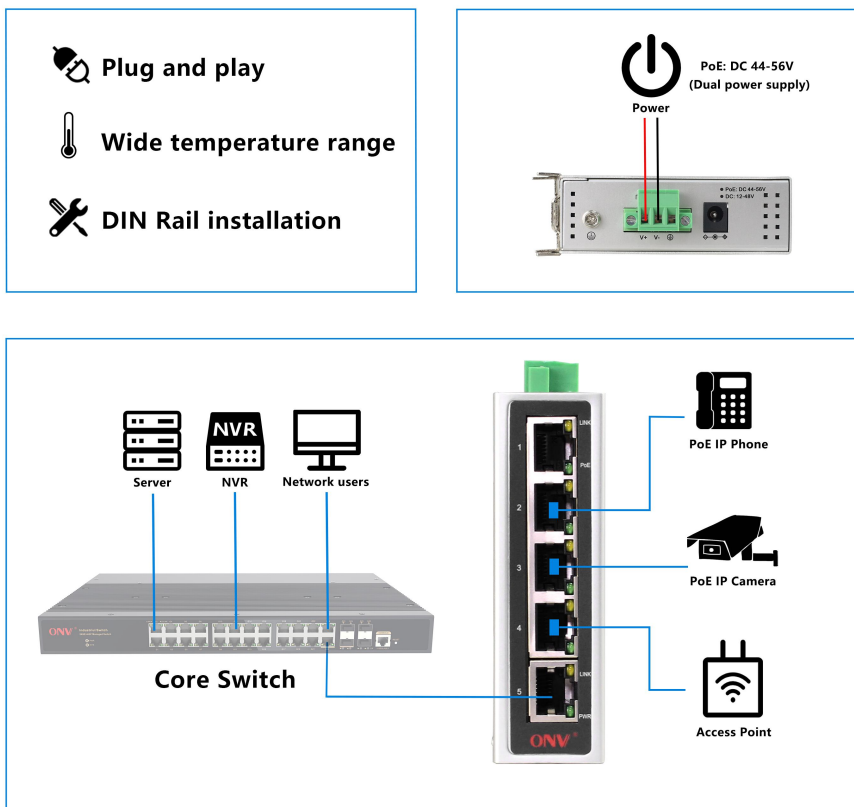| Model | ONV-IPS1005P |
| --- | --- |
| Interface Characteristics | |
| Fixed Port | 1*DC5521 power socket<br>1*10/100Base-TX RJ45 port (Data)<br>4*10/100Base-TX PoE ports (Data/Power)<br>2 set of V+, V- redundant DC power interface (3 Pin Phoenix terminal) |

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| Ethernet Port | Port 1-5 support 10/100Base-TX auto-sensing, full/ half duplex MDI/ MDI-X self-adaption |
|---|---|
| Twisted Pair Transmission | 10BASE-T: Cat3,4,5 UTP (≤100 meters) 100BASE-TX: Cat5 or later UTP (≤100 meters) |
| **Chip Parameter** | |
| Network Protocol | IEEE802.3 10BASE-T, IEEE802.3i 10Base-T IEEE802.3u 100Base-TX, IEEE802.3x |
| Forwarding Mode | Store and Forward (Full Wire Speed) |
| Switching Capacity | 1.0Gbps (no-blocking) |
| Forwarding Rate@64byte | 0.744Mpps |
| MAC | 2K |
| Buffer Memory | 512Kb |
| Jumbo Frame | 2048B |
| 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 (-) |
| Max Power Per Port | 30W, IEEE 802.3 af/at |
| Power Consumption | Standby:<3W, Full load: af<60W, at<120W |
| Working Voltage | DC44-56V, 3 Pin industrial Phoenix terminal, anti-reverse protection. |
| Power Supply | No, optional 60W/48V or 120W/48V industrial power supply |
| **Physical Parameter** | |
| 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) | 98*88*30mm |
| Net /Gross Weight | <0.2 kg / <0.3 kg |

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| Installation | Desktop, 35mm DIN rail |
|---|---|
| **Certification & Warranty** | |
| Lightning Protection | Protection level: IP30 |
| | 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), IEC60068-2-32 (Free Fall), IEC60068-2-27 (Anti Shock) |
| Certification | CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B, RoHS |
| Warranty | 5 years, lifelong maintenance. |

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# DIMENSION



30mm

88mm

98mm

# APPLICATION

🔌 **Plug and play**

🌡 **Wide temperature range**

🔧 **DIN Rail installation**

Power

**PoE: DC 44-56V**
**(Dual power supply)**



Server    NVR    Network users

**Core Switch**

PoE IP Phone

PoE IP Camera

Access Point

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# ORDERING INFORMATION

| Model | Description | Recommended Power Supply |
|---|---|---|
| ONV-IPS1005P | Unmanaged industrial PoE switch with 5*10/100M RJ45 ports. Port 1 to 4 can support IEEE802.3af/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** | 5-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<br>Input Voltage: AC100V~240V 50-60Hz, 1.1A<br>Output Voltage: DC52V, 1.25A<br>Operation Temperature: -20℃ to +65℃ | PC |
| 110W Desktop Power Adapter | GWS-AP110-52 | Desktop 110W single set of output power adapter<br>Input Voltage: AC100V~240V 50-60Hz, 2.0A<br>Output Voltage: DC52V, 2.0A<br>Operation Temperature: -20℃ to +65℃ | PC |
| 60W DIN Rail Industrial Power Supply | GWS-DP60-48 | DIN Rail 60W single set of output power supply<br>Input Voltage: AC100V~240V 50-60Hz, 1.0A<br>Output Voltage: DC48V, 1.25A<br>Operation Temperature: -40℃ to +70℃ | PC |

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| 120W DIN Rail Industrial Power Supply | GWS-DP120-48 | DIN Rail 120W single set of output power supply <br><br> Input Voltage: AC100V~240V 50-60Hz, 1.5A <br><br> Output Voltage: DC48V, 2.5A <br><br> Operation Temperature: -40℃ to +70℃ | PC |
|---|---|---|---|

## CONTACT US

**ONV** **Optical Network Video Technologies (Shenzhen) Co., Ltd.**

Tel: 0086-755-33376606

Fax: 0086-755-33376608

WeChat: ONV-PoE-IoT

Email: onv@onv.com.cn

Skype: onv@onv.com.cn

Website: www.onvcom.com

Headquarter Address: Room 1003, Block D, Terra Building, Futian District, Shenzhen, China

Factory Address: Floor 4-6, Building A, Senyutai Industrial Park, No. 111, Huaning Road, Xinshi

Community, Dalang Street, Longhua District, Shenzhen, China

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Optical Network Video Technologies (Shenzhen) Co., Ltd.