**Product Datasheet**

# 6-port 10/100M Industrial Ethernet Switch

## (ONV-IPS1064)



## OVERVIEW

The ONV-IPS1064 is a 10/100M industrial Ethernet switch independently developed by ONV. It is designed to meet industrial fields and systems and can operate stably for a long time in harsh environments. It has 6*10/100M RJ45 ports. Each port can support full line-rate forwarding.

ONV-IPS1064 industrial Ethernet switch has excellent industrial field environment adaptability (including mechanical stability, climate adaptability, electromagnetic environment adaptability, etc.), protection level is IP30, It can support dual redundant power supply, low power consumption and no fan, 5-year warranty. Unmanaged mode, plug and play, no configuration, easy to use. It is suitable for industrial scenes such as intelligent transportation, rail transit, electric power, mining, metallurgy and green energy construction to form a cost-effective and stable communication network.

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# FEATURE

■ **100M Ethernet 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 RJ45 port and dual uplink RJ45 port combination, which enables users to flexibly build networking to meet the needs of various scenarios.

■ **Stable and reliable**

◇ CCC, CE, FCC, and RoHS.

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

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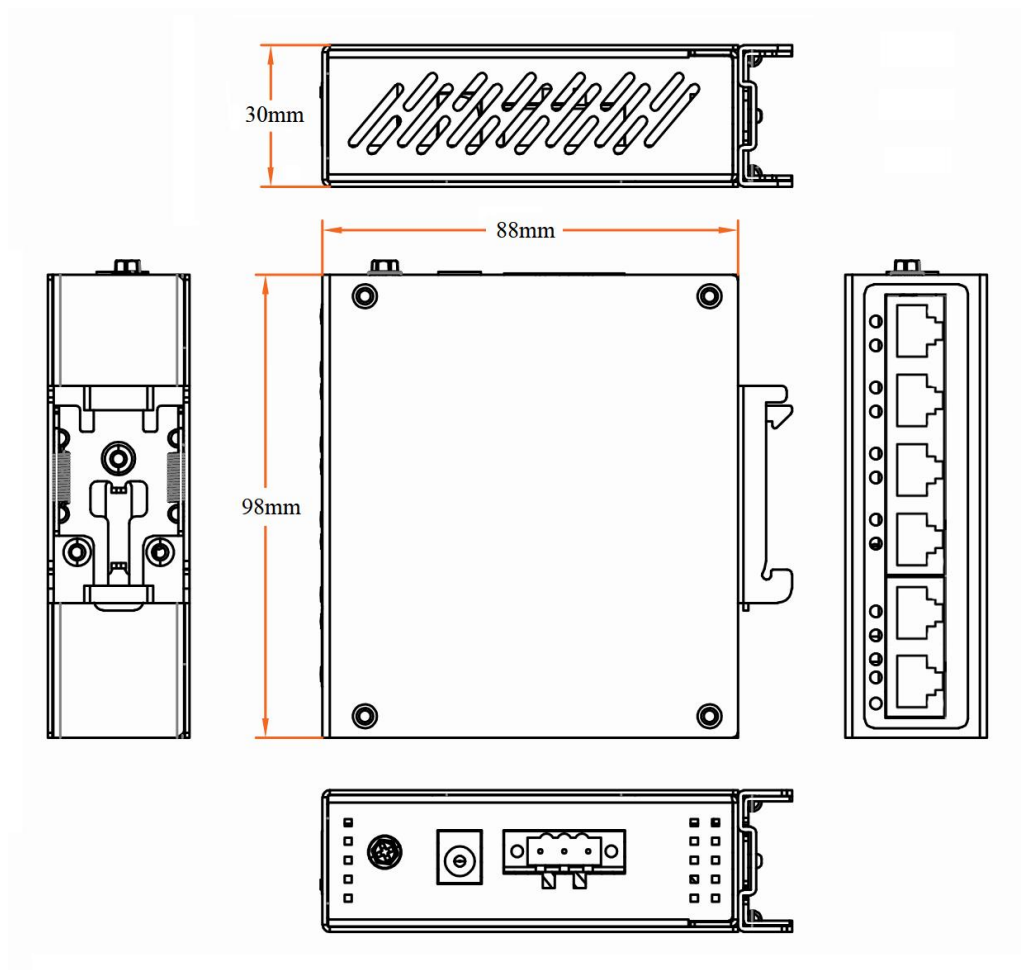
# TECHNICAL SPECIFICATION

| Model | ONV-IPS1064 |
|---|---|
| **Interface Characteristics** | |
| Fixed Port | 1*DC5521 power socket<br>6*10/100Base-TX RJ45 ports (Data)<br>2 set of V+, V- redundant DC power ports (3 Pin Phoenix terminal) |
| Twisted Pair Transmission | 10BASE-T: Cat3,4,5 UTP (≤100 meters)<br>100BASE-T: Cat5e or later UTP (≤100 meters) |
| Ethernet Port | Port 1-6 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<br>IEEE802.3u 100Base-TX, IEEE802.3x |
| Forwarding Mode | Store and Forward (Full Wire Speed) |
| Switching Capacity | 1.6Gbps (No-blocking) |

| Forwarding Rate@64byte | 0.89Mpps |
|---|---|
| MAC | 2K |
| Buffer Memory | 768Kb |
| Jumbo Frame | 2048B |
| LED Indicator | Power: PWR (Green), Network: Link (Yellow) |

**Power Supply**

| Working Voltage | 12-48VDC; 3 Pin industrial phoenix terminal, support anti-reverse protection. |
|---|---|
| Power Consumption | Standby<3W, Full load<5W |
| Power Supply | No, optional 24V/24W 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 / <0.3kg |
| Installation | Desktop, DIN rail |

**Certification & Warranty**

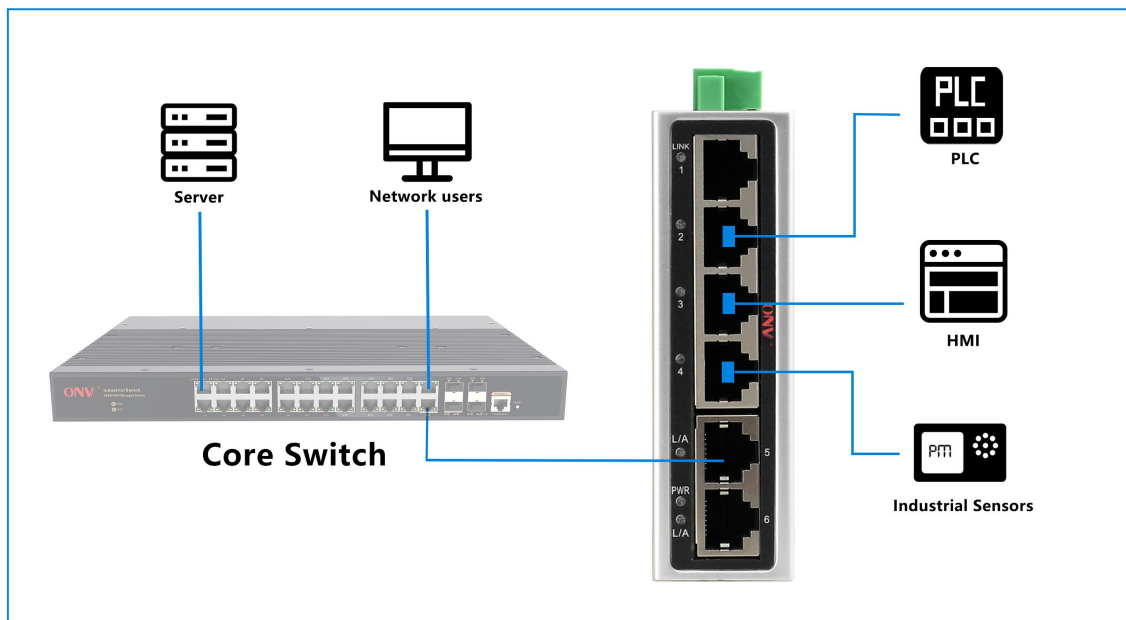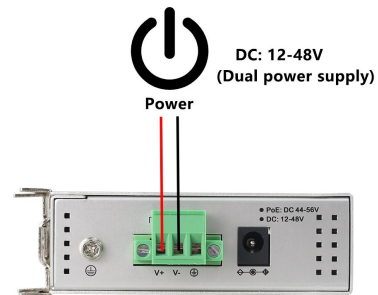| Lightning Protection | Protection level: IP30 |
|---|---|
| | Lightning protection: 6KV 8/20us |
| | IEC61000-4-3 (RS):10V/m (80~1000MHz) |
| | FCC Part 15/CISPR22 (EN55022): Class B |
| | IEC61000-6-2 (Common Industrial Standard) |
| | IEC61000-4-9 (Pulsed magnet field):1000A/m |
| | IEC61000-4-10 (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 |

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| | 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) |
| | IEC61000-4-5 (Surge): Power cable: CM±4kV/ DM±2kV, Data cable: ±4kV |
| | IEC61000-4-8 (Power frequency magnetic field):100A/m, 1000A/m,1s to 3s |
| 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. |

## DIMENSION

# APPLICATION

**Plug and play**

**Wide temperature range**

**DIN Rail installation**

DC: 12-48V
(Dual power supply)
Power

- PoE: DC 44-56V
- DC: 12-48V

V+ V- ⏚

Server

Network users

Core Switch

LINK
1

2

3

4

L/A        5

PWR

L/A        6

PLC

HMI

Industrial Sensors

# ORDERING INFORMATION

| Model | Description | Recommended Power Supply |
|---|---|---|
| ONV-IPS1064 | Unmanaged industrial Ethernet switch with 6*10/100M RJ45 ports. It can support dual DC redundant power input and DIN rail mounting. | 24V/24W |
| **Note:** The power supply is not included and needs to be purchased separately | | |

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# PACKING LIST

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

# POWER SUPPLY

| Product | Model | Description | Unit |
|---|---|---|---|
| 24W DIN Rail Industrial Power Supply | GWS-DP24-24 | DIN Rail type 24W single set of output power supply<br>Input Voltage: AC100V~240V 50-60H, 0.35A<br>Output Voltage: DC24V, 1.0A<br>Operation Temperature: -40℃ to +70℃ | PC |

# CONTACT US

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