

Product Datasheet

6-port Gigabit Industrial Ethernet Switch

(ONV-IPS3064F)



OVERVIEW

The ONV-IPS3064F is a Gigabit industrial Ethernet fiber switch independently developed by ONV. It has 4*10/100/1000M adaptive RJ45 ports and 2*1000M uplink SFP fiber ports. Each port can support full line-rate forwarding.

The ONV-IPS3064F has excellent industrial field environment adaptability (mechanical stability, climate adaptability, electromagnetic environment adaptability, etc.). It is suitable for industrial scenes such as intelligent transportation, rail transit, power industry, mining, petroleum, shipping, metallurgy, and green energy construction to form a cost-effective, stable, and reliable communication network. Unmanaged mode, plug and play, no configuration, easy to use.

FEATURE

■ Gigabit access

- ◇ Support non-blocking wire-speed forwarding.

- ◇ Support full-duplex based on IEEE 802.3x and half-duplex based on Backpressure.
- ◇ Support Gigabit RJ45 port and SFP fiber port to meet the networking requirements of various scenarios.

■ Stable and reliable

- ◇ CCC, CE, FCC, RoHS.
- ◇ The user-friendly panel can show the device status through the LED indicator of PWR and Link.
- ◇ Low power consumption, aluminum alloy housing, and excellent heat dissipation to ensure the stable operation of the switch.

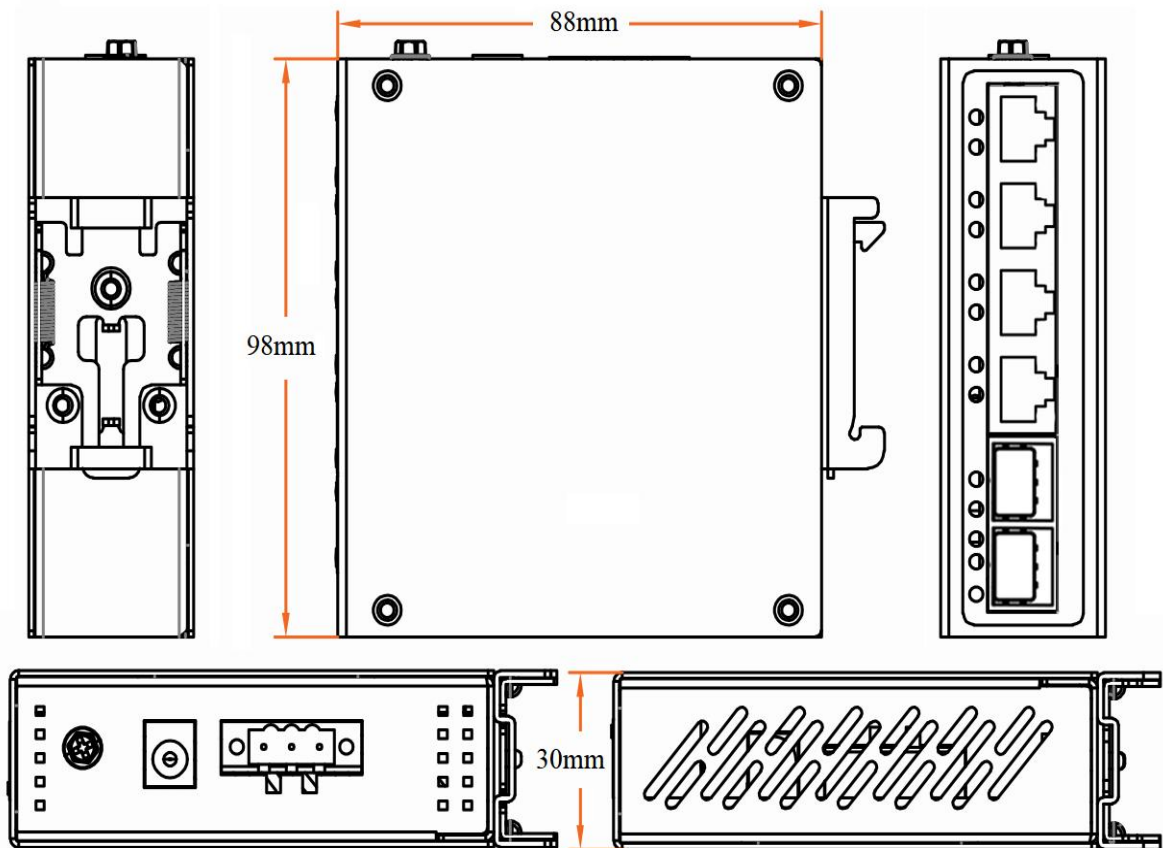
TECHNICAL SPECIFICATION

| Model | ONV-IPS3064F |
|----------------------------------|--|
| Interface Characteristics | |
| Fixed Port | 4*10/100/1000Base-T RJ45 ports (Data) 2*1000Base-X uplink SFP fiber ports (Data) |
| Ethernet Port | Port 1-4 can support 10/100/1000Base-T(X) 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) 1000BASE-T: Cat5e or later UTP (≤100 meters) |
| Optical Fiber Port | Gigabit optical fiber interface, default no include optical module (optional single-mode/ multi-mode, single fiber/ dual fiber optical module. LC) |
| Optical Cable/ Distance | Multi-mode: 850nm/ 0-550m, 1310nm/ 0-2km, Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km |
| Chip Parameter | |
| Network Protocol | IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X, IEEE 802.3x |
| Forwarding Mode | Store and Forward (Full Wire Speed) |

| | |
|-------------------------------------|---|
| Switching Capacity | 12Gbps (non-blocking) |
| Forwarding Rate@64byte | 8.93Mpps |
| MAC | 2K |
| Buffer Memory | 2M |
| Jumbo Frame | 9216bytes |
| LED Indicator | Power: PWR (Green), Network: Link G1-G6 (Green) |
| Power Supply | |
| Power Consumption | Standby<5W, Full load<8W |
| Input Voltage/ Interface | DC12-48V, 3P industrial terminal and DC power jack, support anti-reverse protection |
| Power Supply | No, optional 12V/24W or 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 | 0.25kg/ 0.35kg |
| 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 A 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): CM2.5kV, DM1kV 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 | CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class A, RoHS |
| Warranty | 5 years, lifelong maintenance. |

DIMENSION

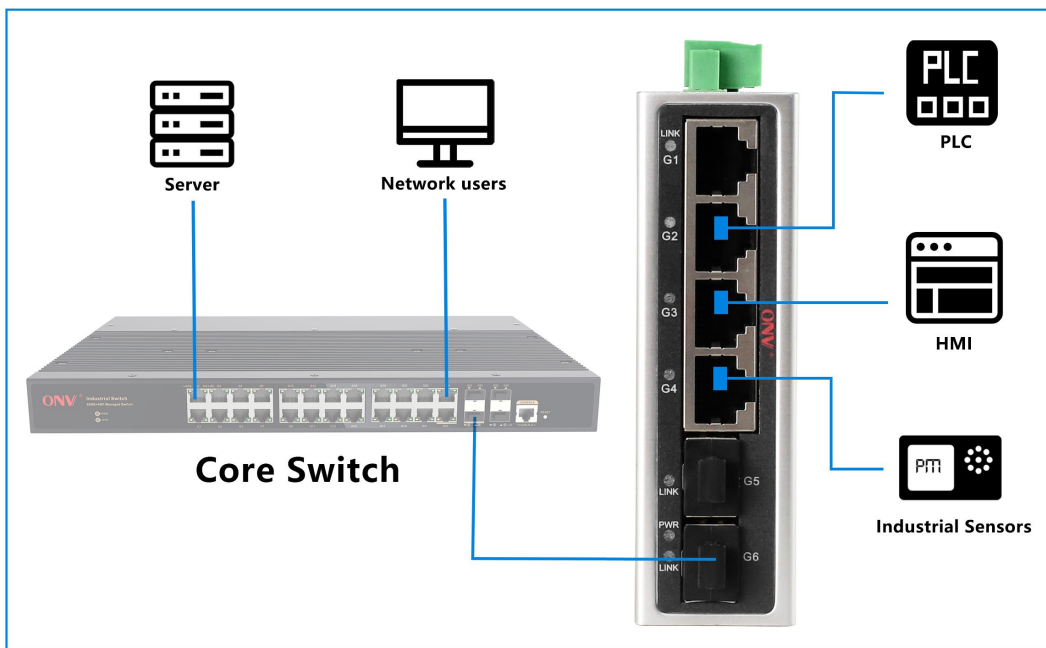
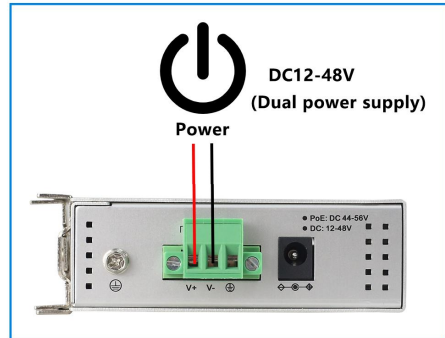


APPLICATION

 **Plug and play**

 **Wide temperature range**

 **DIN Rail installation**



ORDERING INFORMATION

| Model | Description | Recommended Power Supply |
|--------------|---|--------------------------|
| ONV-IPS3064F | Unmanaged industrial Ethernet fiber switch with 2*1000M uplink SFP fiber ports and 4*10/100/1000M RJ45 ports. It can support dual DC power input and DIN Rail mounting. | 24W |

Note: The optical module and power supply are not included and need to be purchased.

PACKING LIST

| Packing List | Content | Qty | Unit |
|--------------|---|-----|------|
| | 6-port Gigabit industrial Ethernet switch | 1 | Set |
| | User Guide | 1 | PC |
| | Warranty Card and Certificate of Conformity | 1 | PC |

OPTICAL MODULE

| Product | Model | Description | Unit |
|----------------------------|-------------|--|------|
| 1.25G Optical Module | 2630-G | Industrial SFP optical module, 1.25G multi-mode dual fiber 850nm, transmission distance: 550m, LC interface, supports DDM function and hot plugging. | PC |
| | 2632-G | Industrial SFP optical module, 1.25G single-mode dual fiber 1310nm, transmission distance: 20km, LC interface, supports DDM function and hot plugging. | PC |
| | 2612-T-G | Industrial SFP optical module, 1.25G single-mode single fiber TX1310nm/ RX1550nm, transmission distance: 20km, LC interface, supports DDM function and hot plugging. | PC |
| | 2613-R-G | Industrial SFP optical module, 1.25G single-mode single fiber TX1550nm/ RX1310nm, transmission distance: 20km, LC interface, supports DDM function and hot plugging. | PC |
| | 2612-T-SC-G | Industrial SFP optical module, 1.25G single-mode single fiber TX1310nm/ RX1550nm, transmission distance: 20km, SC interface, supports DDM function and hot plugging. | PC |
| | 2613-R-SC-G | Industrial SFP optical module, 1.25G single-mode single fiber TX1550nm/ RX1310nm, transmission distance: 20km, SC interface, supports DDM function and hot plugging. | PC |

POWER SUPPLY

| Product | Model | Description | Unit |
|--|-------------|--|------|
| 24W DIN Rail Industrial Power Supply | GWS-DP24-12 | DIN Rail 24W single set of output power supply Input Voltage: AC100V~240V 50-60H, 0.35A Output Voltage: DC12V, 2.0A Operation Temperature: -40°C to +70°C | PC |
| 24W DIN Rail Industrial Power Supply | GWS-DP24-24 | DIN Rail 24W single set of output power supply Input Voltage: AC100V~240V 50-60H, 0.35A Output Voltage: DC24V, 1.0A Operation Temperature: -40°C to +70°C | PC |

CONTACT US



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