

## Product Datasheet

# 6-port Gigabit Industrial PoE Switch

(ONV-IPS3064PFG)



## OVERVIEW

The ONV-IPS3064PFG is a Gigabit industrial PoE fiber switch independently developed by ONV. It has 5\*10/100/1000Base-T adaptive RJ45 ports and 1\*1000Base-X uplink SFP fiber port. Ports 1-4 support the IEEE 802.3af/at PoE standard, with single-port PoE power up to 30W. 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. The network cable can supply power to PoE terminal devices such as wireless APs, IP cameras, and industrial sensors. It also meets the needs of network environments that require a high-density PoE power supply. It is suitable for intelligent transportation, rail transit, the power industry, mining, petroleum, and sea transportation. Industrial scenes such as metallurgy, green energy, and construction form a cost-effective, stable, and reliable communication network. Plug-and-play and easy to use.

## FEATURE

### ■ Gigabit access, uplink RJ45 and SFP fiber ports

- ◇ 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 port combination, which enables users to build networks to meet the needs of various scenarios flexibly.

### ■ Smart PoE power supply

- ◇ 4\*10/100/1000Base-T RJ45 ports support PoE power supply to meet the needs of PoE power supply in various scenarios in the industrial field.
- ◇ Complies with the IEEE 802.3 af/at PoE standard, automatically identifies PoE devices for power supply, and does not damage non-PoE devices.

### ■ Stable and reliable

- ◇ CE, FCC, RoHS.
- ◇ The user-friendly panel can show the device status through the LED indicators for PWR, Link, and PoE.
- ◇ Low power consumption, no fan, aluminum alloy housing, and excellent heat dissipation to ensure the stable operation of the switch.

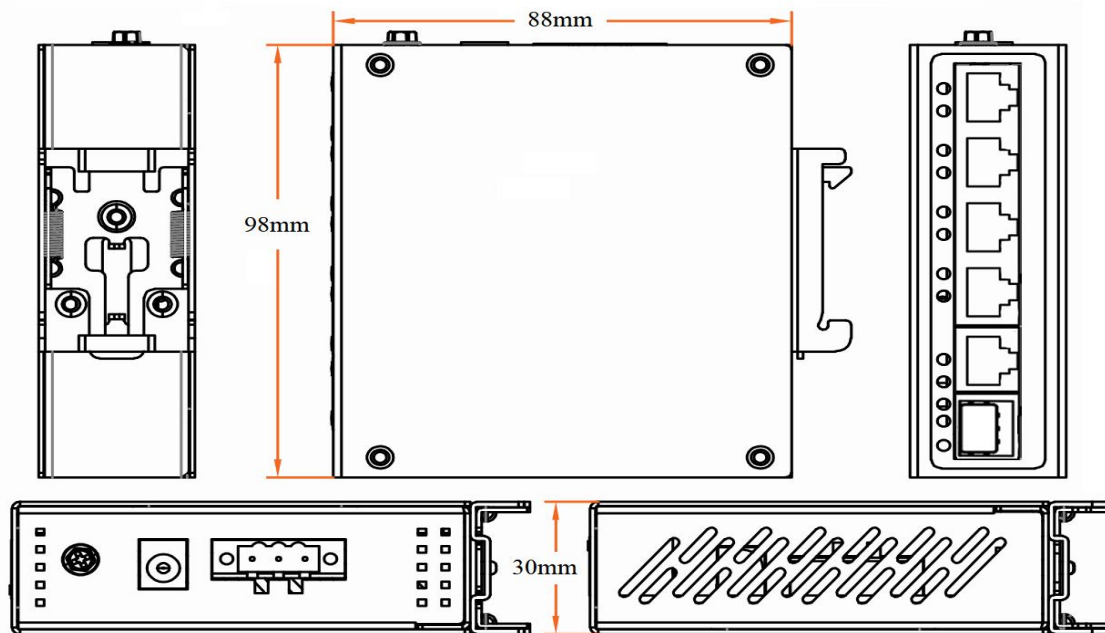
## TECHNICAL SPECIFICATION

| Model                            | ONV-IPS3064PFG                                                                                                                                                                                                                                                                       |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Interface Characteristics</b> |                                                                                                                                                                                                                                                                                      |
| Fixed Port                       | 1*DC5521 power socket<br>1*1000Base-X uplink SFP fiber port (Data)<br>1*10/100/1000Base-T uplink RJ45 port (Data)<br>4*10/100/1000Base-T PoE ports (Data/ Power)<br>1 V+, V- (3P Phoenix terminal) DC power interface<br>Dual power interfaces support reverse-connection protection |
| Ethernet Port                    | Ports 1-5 support 10/100/1000Base-T(X) auto-sensing, full/ half duplex                                                                                                                                                                                                               |

|                              |                                                                                                                                         |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
|                              | MDI/ MDI-X self-adaptation                                                                                                              |
| 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 SFP fiber port, does not 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.                                                 |
| <b>Chip Parameter</b>        |                                                                                                                                         |
| Network Protocol             | IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x               |
| 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                  | 9.2K                                                                                                                                    |
| LED Indicator                | Power: PWR (Green), Network: Link G1-G6 (Green), PoE: PoE G1-G4 (Red)                                                                   |
| <b>PoE&amp; Power Supply</b> |                                                                                                                                         |
| PoE Port                     | Port G1-G4                                                                                                                              |
| Power Supply Pin             | 1/2 (+) 3/6 (-)                                                                                                                         |
| Max Power Per Port           | 30W, IEEE 802.3 af/at                                                                                                                   |
| Power Consumption            | Standby<4W, full load af<60W, at<120W                                                                                                   |
| Operation Voltage            | DC44-56V                                                                                                                                |
| Power Supply                 | No, optional 48V/60W or 48V/120W industrial power supply                                                                                |
| <b>Physical Parameter</b>    |                                                                                                                                         |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Certification&amp; Warranty</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Lightning Protection               | <p>IEC61000-4-3 (RS):10V/m (80~1000MHz)</p> <p>FCC Part 15/CISPR22 (EN55022): Class A</p> <p>IEC61000-6-2 (Common Industrial Standard)</p> <p>IEC61000-4-9 (Pulsed magnetic field): 1000A/m</p> <p>IEC61000-4-10 (Damped oscillation): 30A/m 1MHz</p> <p>IEC61000-4-12/18 (Shockwave): CM2.5kV, DM1kV</p> <p>Protection level: IP30, Lightning protection: 6KV 8/20us</p> <p>IEC61000-4-4(EFT): Power cable: ±4 kV, data cable: ±2 kV</p> <p>IEC61000-4-16 (Common-mode transmission): 30V, 300V, 1s</p> <p>IEC61000-4-2 (ESD): ±8kV contact discharge, ±15kV air discharge</p> <p>IEC61000-4-6 (Radio frequency transmission): 10V(150 kHz- 80 MHz)</p> <p>IEC61000-4-8 (Power frequency magnetic field): 100A/m, 1000A/m, 1s-3s</p> <p>IEC61000-4-5 (Surge): Power cable: CM±4kV/ DM±2kV, data cable: ±4kV</p> |
| Mechanical Properties              | IEC 60068-2-6 (Anti vibration), IEC 60068-2-32 (Free fall), IEC 60068-2-27 (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**



PoE: DC44-56V  
(Dual power supply)

Power



Server



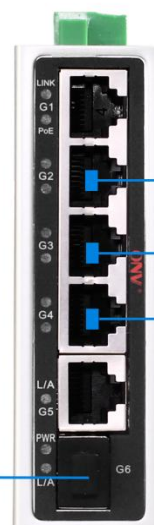
NVR



Network users



**Core Switch**



PoE IP Phone



PoE IP Camera



Access Point

## ORDERING INFORMATION

| Model                                                                                       | Description                                                                                                                                                                                         | Recommended Power Supply |
|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| ONV-IPS3064PFG                                                                              | Industrial PoE switch with 5*10/100/1000M RJ45 ports and 1*1000M uplink SFP fiber port. Ports 1-4 support the IEEE 802.3 af/at PoE standard. It supports dual DC power input and DIN rail mounting. | 60W/120W                 |
| <b>Note:</b> The optical module and power supply are not included and need to be purchased. |                                                                                                                                                                                                     |                          |

## PACKING LIST

|              | Content                                     | Qty | Unit |
|--------------|---------------------------------------------|-----|------|
| Packing List | 6-port Gigabit industrial PoE switch        | 1   | PC   |
|              | 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                                                                                                        | PC   |

|              |      |                                                                                                        |    |
|--------------|------|--------------------------------------------------------------------------------------------------------|----|
|              |      | TX1550nm/ RX1310nm, transmission distance: 20km, LC interface. Supports DDM function and hot-plugging. |    |
| Power Module | 2633 | 1.25G SFP optical module transfers to 10/100/1000M RJ45 port.                                          | PC |

## POWER SUPPLY

| Product                               | Model        | Description                                                                                                                                                     | Unit |
|---------------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 65W Desktop power adapter             | GWS-AP65-52  | Desktop 65W single-set 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 output power adapter<br>Input voltage: AC100V~240V 50-60Hz, 2.0A<br>Output voltage: DC52V, 2.15A<br>Operation temperature: -20℃ to +65℃ | PC   |
| 60W DIN Rail industrial power supply  | GWS-DP60-48  | DIN Rail 60W single-set output power supply<br>Input voltage: AC100V~240V 50-60Hz, 1.6A<br>Output voltage: DC48V, 1.25A<br>Operation temperature: -40℃ to +70℃  | PC   |
| 120W DIN Rail industrial power supply | GWS-DP120-48 | DIN Rail 120W single-set output power supply<br>Input voltage: AC100V~240V 50-60Hz, 2.3A<br>Output voltage: DC48V, 2.5A<br>Operation temperature: -40℃ to +70℃  | PC   |

## CONTACT US



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