

## 6-port Full Gigabit Industrial PoE Fiber Switch

- 4\*10/100/1000Base-T RJ45 ports and 2\*1000Base-X uplink SFP ports, port 1-4 can support PoE.
- Dual uplink SFP fiber port , long-distance transmission
- Dual power supply input , DC input: 48V-57V, 6KV port lightning protection,
- -40°C—+80°C operation temperature
- Large cache military-level master chip configuration, IP40 protection aluminum alloy case, 5-year warranty.



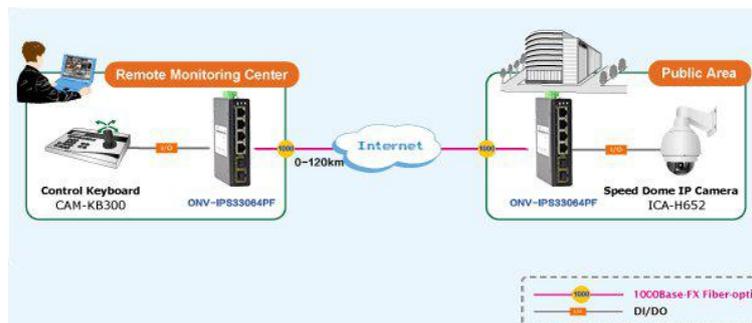
## OVERVIEW

The ONV-IPS33064PF series is a full gigabit industrial PoE fiber switch independently developed by ONV. It has 4\*10/100/1000Base-T RJ45 ports and 2\*1000Base-X SFP fiber slot ports. Port 1-4 can support IEEE 802.3af/at PoE standard, single-port PoE power up to 30W, and the maximum PoE output power of the host is 60W (at-120W). 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 can supply power to PoE terminal device such as wireless AP, IP camera, industrial sensor through the network cable, and meet the network environment that needs high-density PoE power supply. It is suitable for intelligent transportation, rail transit, power industry, mining, petroleum, sea transportation. Industrial scenes such as metallurgy and green energy construction form a cost-effective, stable and reliable communication network.

## FEATURE

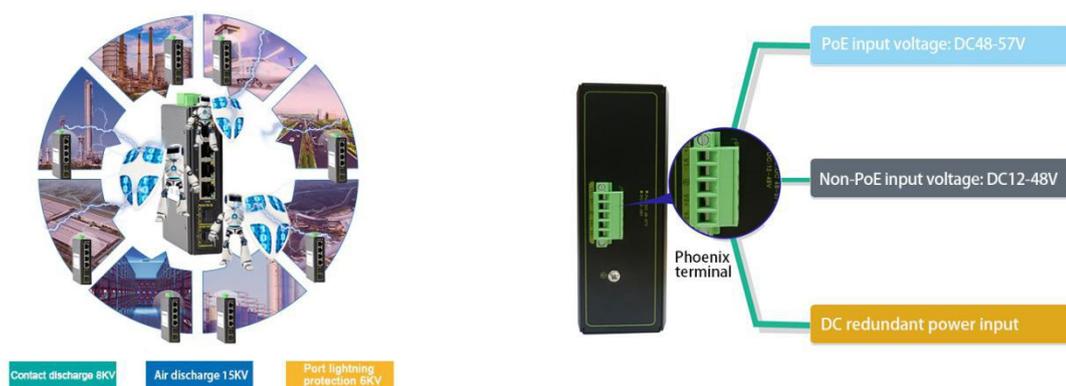
### ■ Gigabit Ethernet port access, uplink gigabit dual SFP port

- ◇ Uplink gigabit dual SFP fiber ports, easy to achieve high bandwidth and long-distance transmission.
- ◇ Dual SFP fiber ports can cascade, chain, compatible with SFP module connection.



### ■ Powerful port lightning protection, wide voltage input

- ◇ Contact discharge 8KV, air discharge 15KV; port lightning protection common-mode 4KV, differential mode 2KV;
- ◇ Industrial dual power input
- ◇ DC INPUT: 48V-57V, non-PoE DC INPUT: 12-48V.



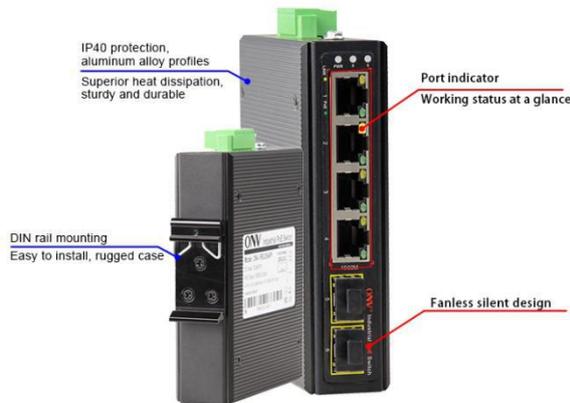
### ■ Intelligent PoE power supply

- ◇ 4\*10/100/1000Base-T RJ45 ports, meeting the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.
- ◇ IEEE 802.3af/at PoE standard, 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**

- ◇ Low power consumption, No fan, aluminum casing.
- ◇ CCC, CE, FCC, RoHS.
- ◇ The user-friendly panel, it can show the device status through the LED indicator of PWR, SYS, Link, L/A, PoE.



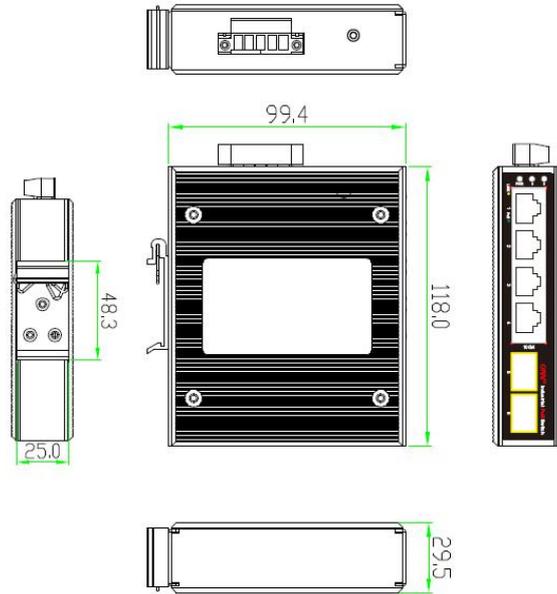
**TECHNICAL SPECIFICATION**

| Model                            | ONV-IPS33064PF   | ONV-IPS33064PF-at |
|----------------------------------|--|-------------------|
| <b>Interface Characteristics</b> |  |                   |
| Fixed Port                       | 4*10/100/1000Base-T PoE ports (Data/Power)<br>2*1000Base-X uplink SFP slot ports(Data)<br>2 set of V+, V- redundant DC power interface (5P Phoenix terminal) |                   |
| Ethernet Port                    | Port 1-4 support 10/100Base-TX, auto-sensing, Full/half duplex<br>MDI/MDI-X self-adaption  |                   |
| Twisted Pair Transmission        | 10BASE-T: Cat3,4,5 UTP(≤100 meter)<br>100BASE-TX: Cat5 or later UTP(≤100 meter)<br>1000BASE-T: Cat5e or later UTP(≤100 meter)                                |                   |

|                           |   |                             |
|---------------------------|---|-----------------------------|
| Fiber Port                | Gigabit SFP optical fiber port, default matching optical modules<br>(optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC) |                             |
| Optical Cable             | Multimode: 850nm 0 ~ 550M,<br>singlemode: 1310nm 0 ~ 40KM, 1550nm 0 ~ 120KM.  |                             |
| <b>Chip Parameter</b>     |   |                             |
| Network Protocol          | IEEE802.3 10BASE-T, IEEE802.3i 10Base-T,<br>IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T<br>IEEE802.3z 1000Base-X, IEEE802.3x                              |                             |
| Forwarding Mode           | Store and Forward(Full Wire Speed)  |                             |
| Switching Capacity        | 16Gbps  |                             |
| Forwarding Rate@64byte    | 8.93Mpps  |                             |
| MAC                       | 8K  |                             |
| Buffer Memory             | 2M  |                             |
| Jumbo Frame               | 9.2K  |                             |
| LED Indicator             | Power: PWR (green), network ;Link, (yellow), POE: PoE (green),<br>Fiber port : 5/6 (green)  |                             |
| <b>PoE &amp; Power</b>    |   |                             |
| PoE Port                  | Port 1 to 4 IEEE802.3af/at @ POE  |                             |
| Power Supply Pin          | Default :1/2 (+), 3/6 (-), optional:4/5 (+), 7/8 (-)  |                             |
| Max Power Per Port        | 30W; IEEE802.3af/at   |                             |
| Total PWR / Input Voltage | 60W/48VDC   | 120W/48VDC                  |
| Power Consumption         | Standby:<4W;Full load:<60W  | Standby:<5W;Full load:<120W |
| Power Supply              | No, optional 48V/60W or 48V/120W industrial power supply  |                             |
| Working Voltage           | 48-57VDC; 5P industrial Phoenix terminal, support anti-reverse protection.  |                             |

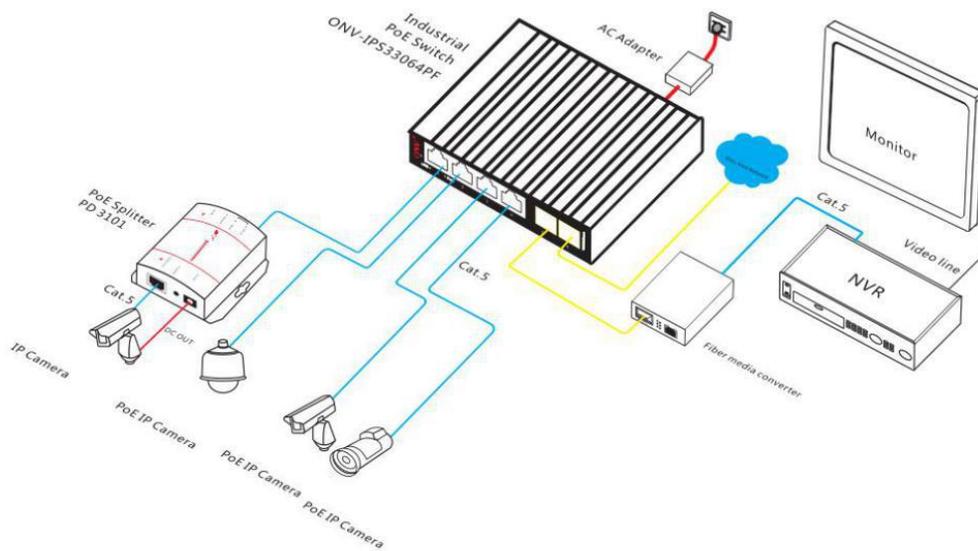
| Physical Parameter                      |  |
|---|--|
| Operation TEMP / Humidity               | -40~+80°C;5%~90% RH Non condensing   |
| Storage TEMP / Humidity                 | -40~+85°C;5%~95% RH Non condensing   |
| Dimension (L*W*H)                       | 119*100*30mm   |
| Net /Gross Weight                       | <0.5kg / <0.7 kg   |
| Installation                            | Desktop, DIN rail  |
| Certification & Warranty                |  |
| Lightning protection / protection level | <p>Lightning protection: 6KV 8/20us; Protection level: IP40</p> <p>IEC61000-4-2(ESD):±8kV contact discharge,±15kV air discharge</p> <p>IEC61000-4-3(RS):10V/m(80~1000MHz)</p> <p>IEC61000-4-4(EFT): power cable:±4kV; data cable:±2kV</p> <p>IEC61000-4-5(Surge):power cable:CM±4kV/DM±2kV; data cable:±4kV</p> <p>IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz)</p> <p>IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m ,1s to 3s</p> <p>IEC61000-4-9(pulsed magnet field):1000A/m</p> <p>IEC61000-4-10(damped oscillation):30A/m 1MHz</p> <p>IEC61000-4-12/18(shockwave):CM 2.5kV,DM 1kV</p> <p>IEC61000-4-16(common-mode transmission):30V; 300V,1s</p> <p>FCC Part 15/CISPR22(EN55022):Class A</p> <p>IEC61000-6-2(Common Industrial Standard)</p> |
| Mechanical Properties                   | <p>IEC60068-2-6 (anti vibration)</p> <p>IEC60068-2-27 (anti shock)</p> <p>IEC60068-2-32 (free fall)</p>  |
| Certification                           | CCC;CE mark, commercial; CE/LVD EN60950;FCC Part 15 Class B; RoHS;   |
| Warranty                                | 5 years , lifelong maintenance.  |

## DIMENSION

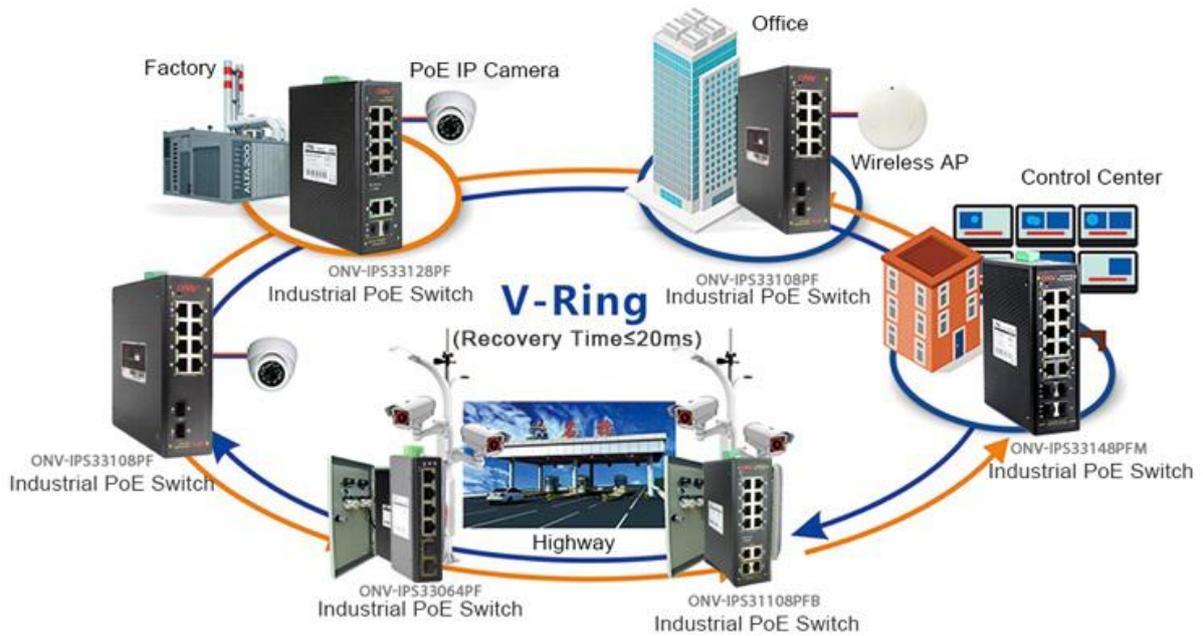


## APPLICATION

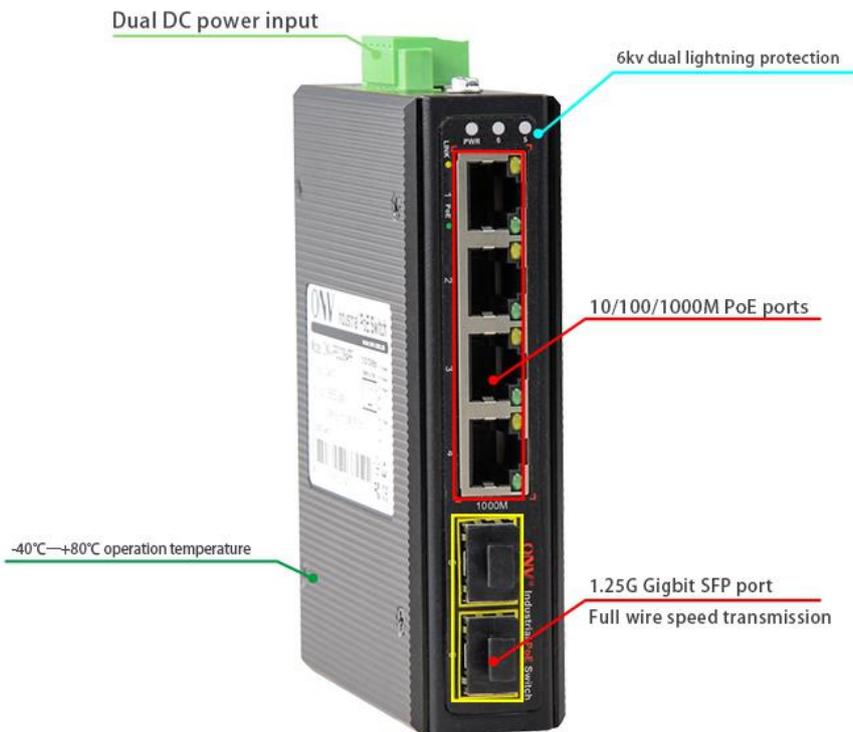
### 1. Network Topology (Single Application)



### (Ethernet Ring Network Application)



### 2. Product overview



## ORDERING INFORMATION

| Model             | Description  | Recommended Power Supply |
|-------------------|--|--------------------------|
| ONV-IPS33064PF    | Unmanaged industrial PoE fiber switch with 4*10/100/1000M RJ45 ports and 2*1000M SFP slot ports,               | 60W                      |
| ONV-IPS33064PF-at | Port 1-4 can support IEEE802.3af/at PoE standard.<br>Support dual DC power supply input and DIN rail mounting. | 120W                     |

**Note:** Industrial PoE fiber switch does not match the optical module and power supply.

## PACKING LIST

|              | CONTENT   | QTY | UNIT |
|--------------|---|-----|------|
| PACKING LIST | 6-port full gigabit industrial PoE fiber switch | 1   | SET  |
|              | User Guide                                      | 1   | PC   |
|              | Warranty Card                                   | 1   | PC   |

## OPTICAL MODULE INFORMATION

| Product            | Model    | Description   | Unit |
|--------------------|----------|---|------|
| 1.25G Fiber Module | ONV-2630 | SFP optical module, 1.25G, multi mode dual fiber 850nm, transmission distance: 550m, LC interface, support DDM function, support hot plug and pull. | PC   |
|                    | ONV-2632 | SFP optical module, 1.25G, single-mode dual fiber 1310nm, transmission distance: 20km, LC interface,  | PC   |

|                 |                   |   |    |
|-----------------|-------------------|---|----|
|                 |                   | support DDM function, support hot plug and pull.  |    |
|                 | ONV-2612-T        | SFP optical module, 1.25G, single-mode single fiber TX1310nm/RX1550nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.            | PC |
|                 | ONV-2613-R        | SFP optical module, 1.25G, single-mode single fiber TX1550nm/RX1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.            | PC |
|                 | 2612-T-G          | Industrial SFP optical module, 1.25G, single-mode single fiber TX1310nm/RX1550nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull. | PC |
|                 | 2613-R-G          | Industrial SFP optical module, 1.25G, single-mode single fiber TX1550nm/RX1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull. | PC |
|                 | ONV-2612-T-S<br>C | SFP optical module, 1.25G, single-mode single fiber TX1310nm/RX1550nm, transmission distance: 20km, SC interface, support DDM function, support hot plug and pull.            | PC |
|                 | ONV-2613-R-S<br>C | SFP optical module, 1.25G, single-mode single fiber TX1550nm/RX1310nm, transmission distance: 20km, SC interface, support DDM function, support hot plug and pull.            | PC |
| Power<br>Module | ONV-2633          | 1.25G SFP optical module transfers to 10/100/1000M RJ45 port.   | PC |

## POWER SUPPLY SELECTION TABLE

| Product                               | Model        | Description  | Unit |
|---------------------------------------|--------------|--|------|
| 65W Desktop Power Adaptor             | GWS-AP65-52  | Desktop tape 65W single set of output power adapter;<br>Input Voltage:AC 100V~240V<br>50-60Hz,1.1A<br>Output Voltage:DC 52V 1.25A<br>Operation Temperature:-20℃—+65℃ | PC   |
| 110W Desktop Power Adaptor            | GWS-AP110-52 | Desktop tape 110W single set of output power adapter;<br>Input Voltage:AC 100V~240V<br>50-60Hz,2.0A<br>Output Voltage:DC 52V 2.0A<br>Operation Temperature:-20℃—+65℃ | PC   |
| 60W DIN Rail Industrial Power Supply  | GWS-DP60-48  | Din Rail type 60W single set of output power supply;<br>Input Voltage:AC 100V~240V<br>50-60Hz,1A<br>Output Voltage:DC 48V 1.25A<br>Operation Temperature:-40℃—+70℃   | PC   |
| 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<br>50-60Hz,1.5A<br>Output Voltage:DC 48V 2.5A<br>Operation Temperature:-40℃—+70℃ | PC   |

## RELATED PRODUCT

| Model           | Description  |
|-----------------|--|
| ONV-IPS33021PF  | Unmanaged industrial PoE fiber switch with 1*10/100/1000M RJ45 port and 1*1000M SFP slot port, Port 1 can support IEEE802.3af/at PoE standard. Support dual DC power supply input and DIN rail mounting.     |
| ONV-IPS33032PF  | Unmanaged industrial PoE fiber switch with 2*10/100/1000M RJ45 ports and 1*1000M SFP slot port, Port 1-2 can support IEEE802.3af/at PoE standard. Support dual DC power supply input and DIN rail mounting.  |
| ONV-IPS33042PF  | Unmanaged industrial PoE fiber switch with 2*10/100/1000M RJ45 ports and 2*1000M SFP slot ports, Port 1-2 can support IEEE802.3af/at PoE standard. Support dual DC power supply input and DIN rail mounting. |
| ONV-IPS33054PF  | Unmanaged industrial PoE fiber switch with 4*10/100/1000M RJ45 ports and 1*1000M SFP slot port, Port 1-4 can support IEEE802.3af/at PoE standard. Support dual DC power supply input and DIN rail mounting.  |
| ONV-IPS33064PFG | Unmanaged industrial PoE fiber switch with 5*10/100/1000M RJ45 ports and 1*1000M SFP slot port, Port 1-4 can support IEEE802.3af/at PoE standard. Support dual DC power supply input and DIN rail mounting.  |

## CONTACT US

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