

Product Datasheet

5-port 10/100M Industrial PoE Fiber Switch

(ONV-IPS31004PF)



OVERVIEW

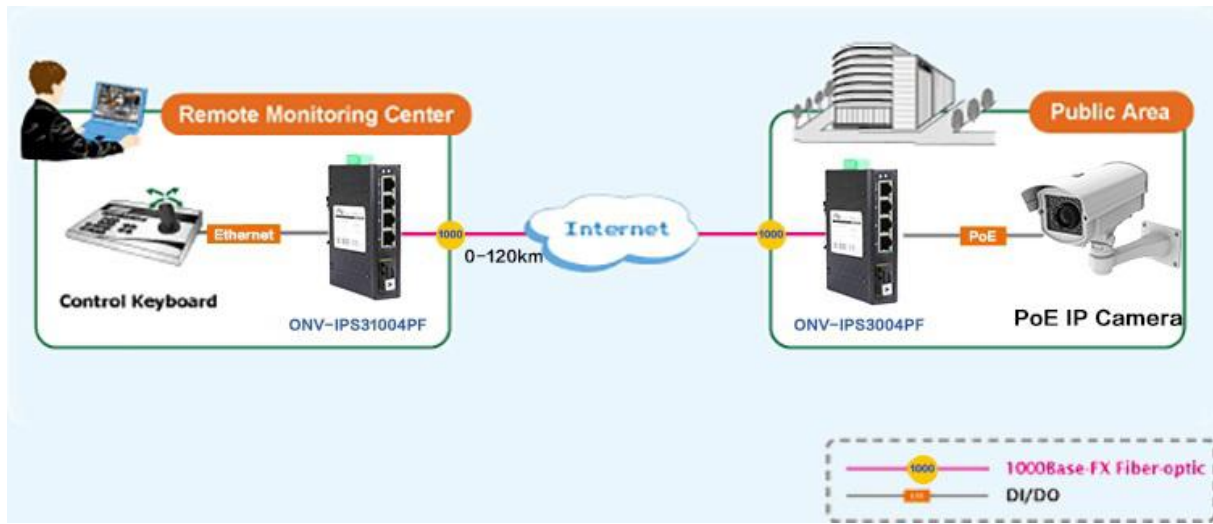
The ONV-IPS31004PF series is a 10/100M industrial PoE fiber switch independently developed by ONV. It has 4*10/100M PoE ports and 1*155M SC slot port, Port 1-4 can support IEEE 802.3af/at PoE standard, single port PoE power up to 30W, the maximum PoE output power is 60W (at-120W). As a PoE power supply 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 equipment such as wireless AP, web camera, VoIP phone, industrial sensor through network cable, and meet the network environment that needs high-density PoE power supply. It is suitable for intelligent transportation, rail transit, electric power, mining, metallurgy and green energy. Industrial scenes such as construction set up a cost-effective and stable communication network.

Unmanaged model, plug and play, no configuration, easy to use.

FEATURE

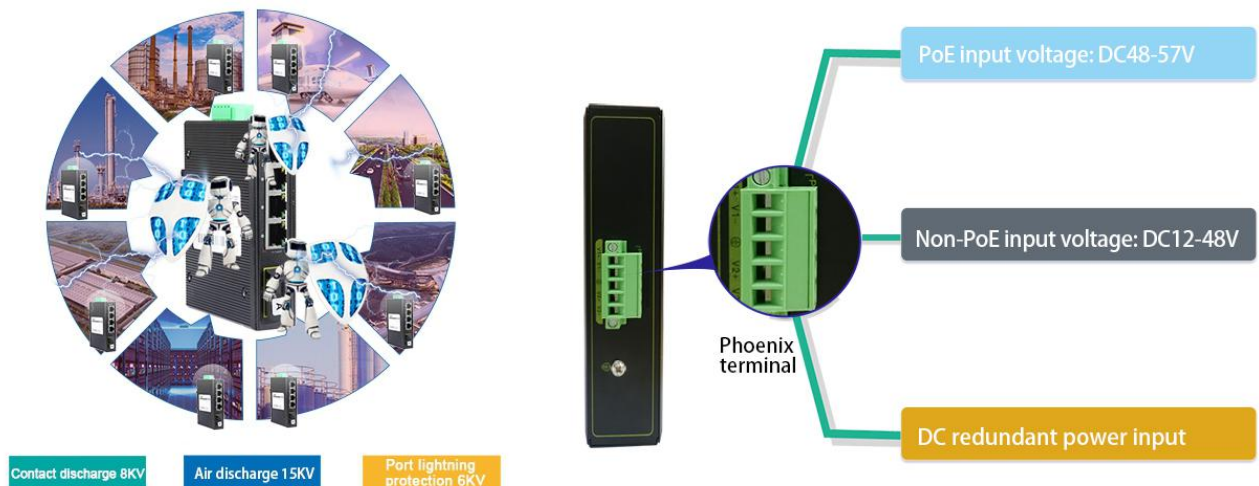
■ 10/100M TP/SC port, fast Ethernet

- ◇ All series supports "10/100M RJ45 port and 155M SC fiber port" combination, which enables users to flexibly build networking to meet the needs of various scenarios.
- ◇ Support non-blocking wire speed forwarding
- ◇ Support full duplex based on IEEE802.3x and half duplex based on Backpressure



■ 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.

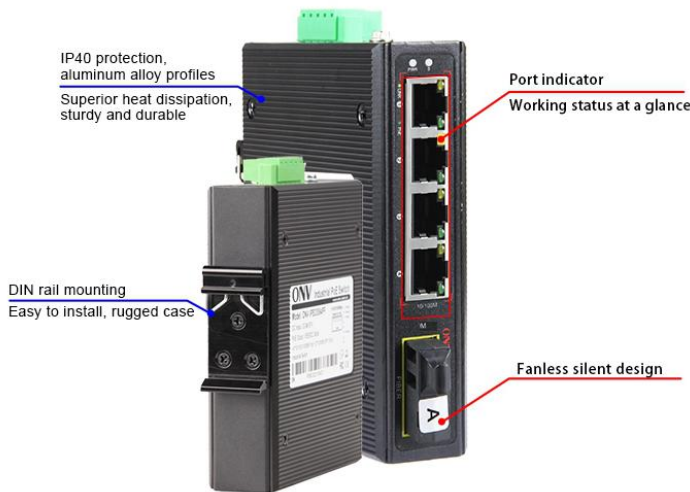


■ Smart PoE power supply function

- ◇ 4*10/100Base-TX 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.

■ Stable and reliable

- ◇ Low power consumption, no fan low noise design, aluminum shell.
- ◇ CCC, CE, FCC, RoHS.
- ◇ The user-friendly panel, it can show the device status through the LED indicator of PWR, Link, PoE.



TECHNICAL SPECIFICATION

| Model | ONV-IPS31004PF | ONV-IPS31004PF-at |
|----------------------------------|--|-------------------|
| Interface Characteristics | | |
| Fixed Port | 4*10/100Base-T PoE ports (Data /Power) 1*155M uplink SC port (Data) 2 group of V+, V- redundant DC power interface (5P Phoenix terminal) | |
| Ethernet Port | 10/100Base-TX auto-sensing, full/half duplex MDI/MDI-X self-adaption | |
| Twisted Pair | 10BASE-T: Cat3,4,5 UTP(≤100 meter) | |

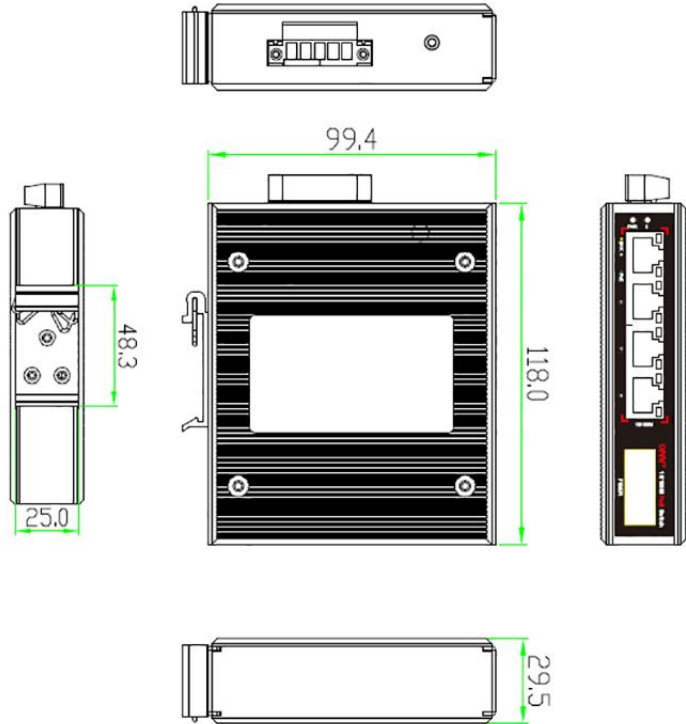
| | | |
|---------------------------|--|----------------------------|
| Transmission | 100BASE-TX: Cat5e or later UTP(≤100 meter) | |
| Fiber Port | The default optical module is single-mode dual-fiber 20km, SC interface; Multi-mode dual fiber and single-mode single fiber see product selection table | |
| Optical Cable | Multimode: 850nm 0 ~ 550M, singlemode: 1310nm 0 ~ 40KM, 1550nm 0 ~ 120KM. | |
| Chip Parameter | | |
| Network Protocol | IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3u 100Base-TX;IEEE802.3u 100Base-FX; IEEE802.3x | |
| Forwarding Mode | Store and Forward(Full Wire Speed) | |
| Switching Capacity | 1.6Gbps (Non-blocking) | |
| Forwarding Rate@64byte | 0.744Mpps | |
| MAC | 1K | |
| Buffer Memory | 768K | |
| Jumbo Frames | 9.2K | |
| LED Indicator | Power: PWR (green), Network :Link, (yellow); PoE : PoE (green) , fiber port :5 (green) | |
| PoE & Power | | |
| 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 | Standby<3W, Full Load<60W | Standby<4W, Full Load<120W |

| | |
|---|--|
| Consumption | |
| Working Voltage | 48-57VDC; 5P industrial phoenix terminal, anti-reverse protection. |
| Power Supply | No, optional 48V/60W or 48V/120W industrial power supply |
| 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 | 119*100*30mm |
| Net /Gross Weight | <0.5kg /<0.7kg |
| Installation | Desktop, 35mm DIN rail |
| Certification & Warranty | |
| Lightning Protection / Protection Level | Lightning protection: 6KV 8/20us; Protection level: IP40 IEC61000-4-2(ESD):±8kV contact discharge, ±15kV air discharge IEC61000-4-3(RS):10V/m(80~1000MHz) IEC61000-4-4(EFT): power cable:±4kV; data cable:±2kV IEC61000-4-5(Surge):power cable:CM±4kV/DM±2kV; data cable:±4kV IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz) IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m ,1s to 3s 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 IEC61000-4-16(common-mode transmission):30V; 300V,1s FCC Part 15/CISPR22(EN55022):Class A IEC61000-6-2(Common Industrial Standard) |
| Mechanical Properties | IEC60068-2-6 (anti vibration), IEC60068-2-27 (anti shock), IEC60068-2-32 (free fall) |
| Certification | CCC; CE mark, commercial; CE/LVD EN60950; FCC Part 15 Class B; RoHS; |

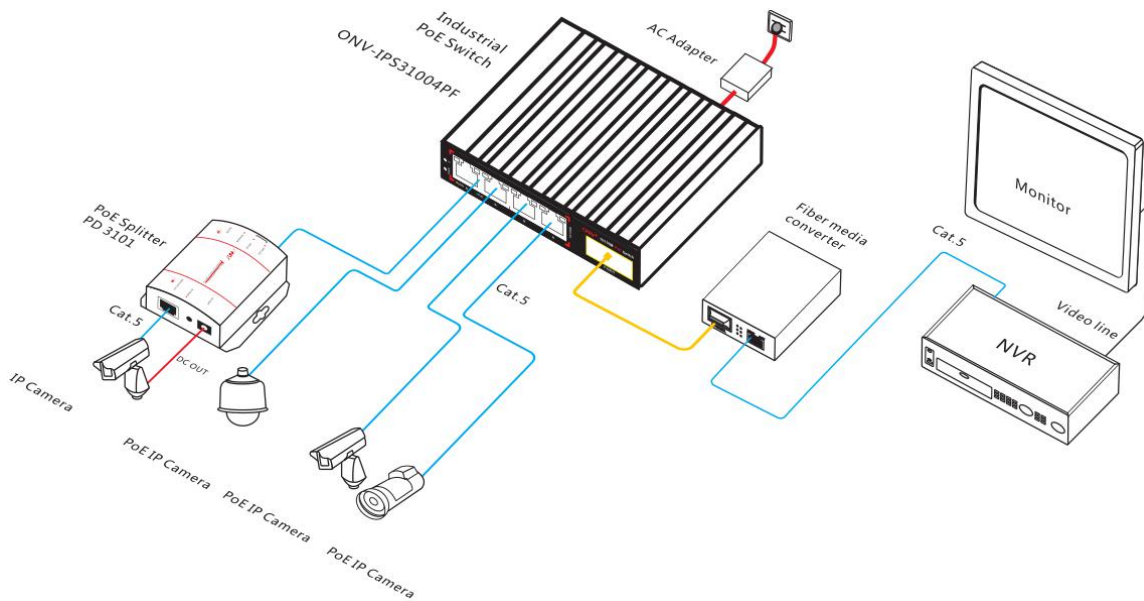
Warranty

5 years, lifelong maintenance.

DIMENSION



APPLICATION



ORDERING INFORMATION

| Model | Description | Recommended Power Supply |
|-------------------------|---|--------------------------|
| ONV-IPS31004P F | Unmanaged industrial PoE fiber switch with 4*10/100M PoE ports and 1*155M SC port, Port 1-4 can support PoE | 60W |
| ONV-IPS31004P F-at | IEEE802.3af/at. By default, the SC port 1310nm/20km single-mode dual-fiber module is configured. It can support dual DC redundant power input (Phoenix terminal connection) and rail mounting. | 120W |
| ONV-IPS31004P F-M | Unmanaged industrial PoE fiber switch with 4*10/100M PoE ports and 1*155M SC port, Port 1-4 can support PoE | 60W |
| ONV-IPS31004P F-M-at | IEEE802.3af/at. By default, the SC port 850nm/0.5km or 1310nm/2km multi-mode dual fiber module is configured. It can support dual DC redundant power input (Phoenix terminal connection) and support rail mounting. | 120W |
| ONV-IPS31004P F-A | Unmanaged industrial PoE fiber switch with 4*10/100M PoE ports and 1*155M uplink SC port. Port 1-4 can support IEEE 802.3af/at. By default, the SC port | 60W |
| ONV-IPS31004P F-A-at | 1310nm/20km single-mode single-fiber module is configured. It can support dual DC redundant power input (Phoenix terminal connection) and support rail mounting. | 120W |
| ONV-IPS31004P F-B | Unmanaged industrial PoE fiber switch with 4*10/100M PoE ports and 1*155M uplink SC port. Port 1-4 can support IEEE 802.3af/at. By default, the SC port | 60W |
| ONV-IPS31004P F-B-at | 1550nm/20km single-mode single-fiber module is configured. It can support dual DC redundant power input (Phoenix terminal connection) and support rail mounting. | 120W |

PACKING LIST

| PACKING LIST | CONTENT | QTY | UNIT |
|--------------|--|-----|------|
| | 5-port 10/100M industrial PoE fiber switch | 1 | SET |
| | User Guide | 1 | PC |
| | Warranty Card | 1 | 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; Input Voltage:AC 100V~240V 50-60Hz,1.1A Output Voltage:DC 52V 1.25A Operation Temperature:-20℃—+65℃ | PC |
| 110W Desktop Power Adaptor | GWS-AP110-52 | Desktop tape 110W single set of output power adapter; Input Voltage:AC 100V~240V 50-60Hz,2.0A Output Voltage:DC 52V 2.0A Operation Temperature:-20℃—+65℃ | PC |
| 60W DIN Rail Industrial Power Supply | GWS-DP60-48 | Din Rail type 60W single set of output power supply; Input Voltage:AC 100V~240V 50-60Hz,1A Output Voltage:DC 48V 1.25A | PC |

| | | | |
|---------------------------------------|--------------|---|----|
| | | Operation Temperature:-40℃—+70℃ | |
| 120W DIN Rail Industrial Power Supply | GWS-DP120-48 | Din Rail type 120W single set of output power supply; Input Voltage:AC 100V~240V 50-60Hz,1.5A Output Voltage:DC 48V 2.5A Operation Temperature:-40℃—+70℃ | PC |

CONTACT US



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