

Product Datasheet

12-port Full Gigabit Industrial PoE Fiber Switch (ONV-IPS33128PF)



OVERVIEW

The ONV-IPS33128PF is a gigabit industrial PoE fiber switch independently developed by ONV. It has 10*10/100/1000Base-T adaptive RJ45 ports and 2*1000Base-X uplink SFP fiber ports. Port 1-8 can support IEEE 802.3 af/at PoE standard and 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. It can supply power to PoE terminal devices such as wireless AP, IP cameras, and industrial sensors through the network cable, and meet the network environment that needs a high-density PoE power supply. It is suitable for intelligent transportation, rail transit, power industry, mining, petroleum, and sea transportation. Industrial scenes such as metallurgy and green energy, construction form a cost-effective, stable, and reliable communication network.

FEATURE

■ Gigabit access, uplink SFP fiber port

- ◇ Support non-blocking wire-speed forwarding.
- ◇ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.
- ◇ Support Gigabit RJ45 port and uplink SFP fiber port combination, which enables users to flexibly build networking to meet the needs of various scenarios.

■ Smart PoE power supply

- ◇ Comply with IEEE 802.3 af/at PoE standard, automatically identify PoE devices for power supply, and not damage non-PoE devices.
- ◇ 8*10/100/1000Base-T RJ45 ports, meeting the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.
- ◇ Priority system for PoE port 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

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

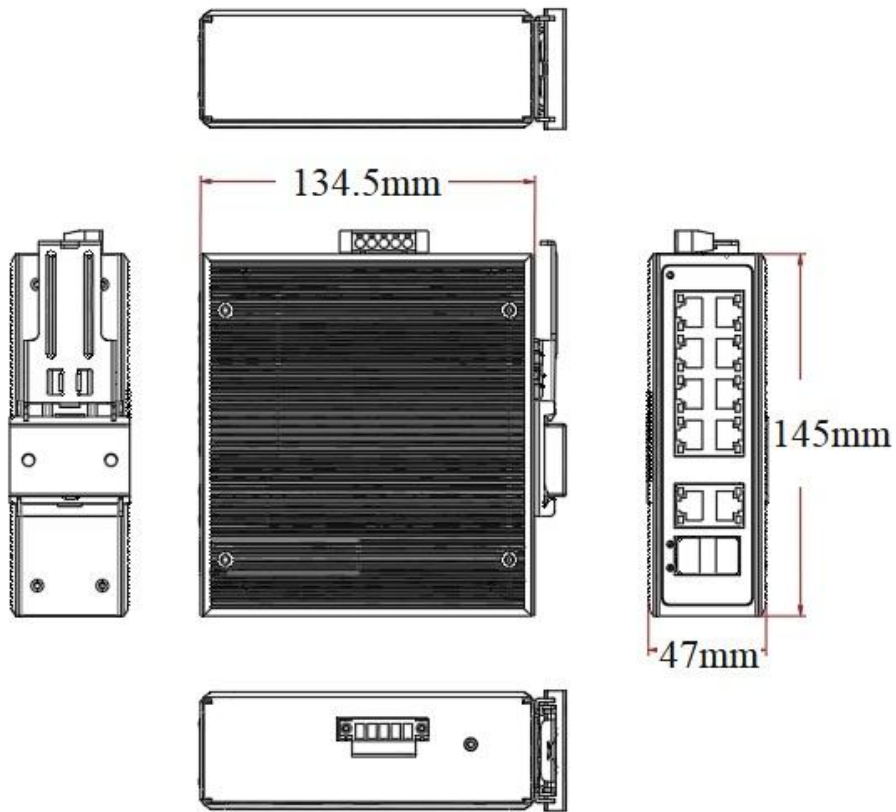
TECHNICAL SPECIFICATION

| Model | ONV-IPS33128PF |
|----------------------------------|---|
| Interface Characteristics | |
| Fixed Port | 2*1000Base-X uplink SFP fiber ports (Data) 2*10/100/1000Base-T uplink RJ45 ports (Data) 8*10/100/1000Base-T PoE ports (Data/ Power) 2 sets of V+, V- redundant DC power port (5P Phoenix terminal) |

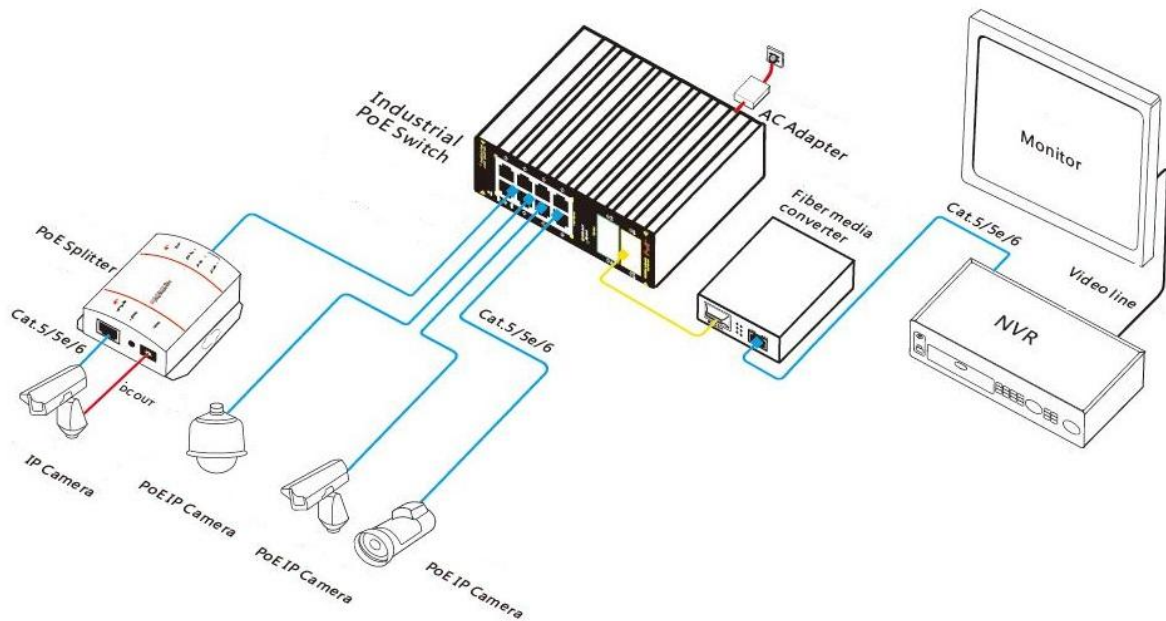
| | |
|-------------------------------|--|
| Ethernet Port | Port 1-10 support 10/100/1000Base-T auto-sensing, full/ half duplex MDI/ MDI-X self-adaption |
| Twisted Pair Transmission | 10BASE-T: Cat3,4,5 UTP (≤ 100 meters) 100BASE-TX: Cat5 or later UTP (≤ 100 meters) 1000BASE-T: Cat5e or later UTP (≤ 100 meters) |
| Optical Fiber Port | Gigabit optical fiber port, 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, 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 | 24Gbps (non-blocking) |
| Forwarding Rate@64byte | 17.86Mpps |
| MAC | 8K |
| Buffer Memory | 4M |
| Jumbo Frames | 9.2K |
| LED Indicator | Power: PWR (Green), Network: Link, Link/Act (Yellow), PoE: PoE (Green) |
| PoE & Power Supply | |
| PoE Port | Port 1- 8 |
| Power Supply Pin | 1/2(+) 3/6 (-) |
| Max Power Per Port | 30W, IEEE 802.3 af/at |
| Power Consumption | Standby<8W, Full load af<120W, at<240W |
| Working Voltage | DC48-57V, 5P industrial phoenix terminal, anti-reverse protection. |
| Power Supply | No, optional 48V/120W or 48V/240W industrial power supply |
| Physical Parameter | |
| Operation TEMP/ | -40~+80°C, 5%~90% RH Non condensing |

| | |
|-------------------------------------|---|
| Humidity | |
| Storage TEMP/ Humidity | -40~+85°C, 5%~95% RH Non condensing |
| Dimension | 145*134.5*47mm |
| Net /Gross Weight | 0.9kg / 1.15kg |
| Installation | Desktop, 35mm DIN Rail |
| Certification & Warranty | |
| Lightning Protection | <p>Protection level: IP40</p> <p>Lightning protection: 6KV 8/20us</p> <p>IEC61000-4-3 (RS):10V/m (80~1000MHz)</p> <p>FCC Part 15/CISPR22 (EN55022): Class B</p> <p>IEC61000-6-2 (Common Industrial Standard)</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): CM2.5kV, DM1kV</p> <p>IEC61000-4-4(EFT): Power cable: ±4kV, data cable: ±2kV</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(150kHz~80MHz)</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 | IEC60068-2-6 (Anti Vibration), IEC60068-2-27 (Anti Shock), IEC60068-2-32 (Free Fall) |
| Certification | CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B, RoHS |
| Warranty | 5 years, lifelong maintenance. |

DIMENSION



APPLICATION



ORDERING INFORMATION

| Model | Description | Recommended Power Supply |
|----------------|---|--------------------------|
| ONV-IPS33128PF | Unmanaged industrial PoE fiber switch with 10*10/100/1000M RJ45 ports and 2*1000M uplink SFP fiber ports. Port 1-8 can support IEEE 802.3 af/at PoE standard. It can support dual DC power input and DIN rail mounting. | 120W/240W |

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

PACKING LIST

| Packing List | Content | Qty | Unit |
|--------------|--|-----|------|
| | 12-port full gigabit industrial PoE fiber switch | 1 | SET |
| | User Guide | 1 | PC |
| | Warranty Card | 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, | PC |

| | | | |
|--------------|-------------|--|----|
| | | LC interface, supports DDM function and hot plugging. | |
| | 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 Module | 2633 | 1.25G SFP optical module transfers to 10/100/1000M RJ45 port. | PC |

POWER SUPPLY

| Product | Model | Description | Unit |
|---------------------------------------|--------------|---|------|
| 130W Desktop Power Adapter | GWS-AP130-52 | Desktop 130W single set of output power adapter Input Voltage: AC100V~240V 50-60Hz, 2.3A Output Voltage: DC52V, 2.5A Operation Temperature: -20°C to +65°C | PC |
| 250W Desktop Power Adapter | GWS-AP250-52 | Desktop 250W single set of output power adapter Input Voltage: AC100V~240V 50-60Hz, 5.0A Output Voltage: DC52V, 5.0A Operation Temperature: -20°C to +65°C | PC |
| 120W DIN Rail Industrial Power Supply | GWS-DP120-48 | DIN Rail 120W single set of output power supply Input Voltage: AC100V~240V 50-60Hz, 2.3A Output Voltage: DC48V, 2.5A Operation Temperature: -40°C to +70°C | PC |
| 240W DIN Rail | GWS-DP240-48 | DIN Rail 240W single set of output power supply | PC |

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|-------------------------|--|
| Industrial Power Supply | Input Voltage: AC100V~240V 50-60Hz, 3.0A Output Voltage: DC48V, 5.0A Operation Temperature: -40°C to +70°C |
|-------------------------|--|

RELATED PRODUCT

| Model | Description |
|----------------|--|
| ONV-IPS33032PF | Unmanaged industrial PoE fiber switch with 2*10/100/1000M RJ45 ports and 1*1000M uplink SFP fiber port. Port 1-2 can support IEEE 802.3 af/at PoE standard. It can support dual DC power input and DIN rail mounting. |
| ONV-IPS33042PF | Unmanaged industrial PoE fiber switch with 2*10/100/1000M RJ45 ports and 2*1000M uplink SFP fiber ports. Port 1-2 can support IEEE 802.3 af/at PoE standard. It can support dual DC power input and DIN rail mounting. |
| ONV-IPS33064PF | Unmanaged industrial PoE fiber switch with 4*10/100/1000M RJ45 ports and 2*1000M uplink SFP fiber ports. Port 1-4 can support IEEE 802.3 af/at PoE standard. It can support dual DC power input and DIN rail mounting. |
| ONV-IPS33108PF | Unmanaged industrial PoE fiber switch with 8*10/100/1000M RJ45 ports and 2*1000M uplink SFP fiber ports. Port 1-8 can support IEEE 802.3 af/at PoE standard. It can support dual DC power input and DIN rail mounting. |

CONTACT US

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