

OPTICAL NETWORK VIDEO TECHNOLOGIES (SHENZHEN) CO., LTD.

Product Datasheet

10-Port Gigabit Uplink PoE Fiber Switch

(ONV-POE31108PFG)



OVERVIEW

The ONV-POE31108PFG series is a unmanaged PoE fiber switch independently developed by ONV. It has 8*10/100M PoE ports and 1*10/100/1000M RJ45 port and 1*1000M SFP slot port . Port 1-8 can support IEEE 802.3af/at standard PoE power supply. single port PoE power reaches 30W, and the maximum PoE output power is 110W (at-250W). 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, webcam, VoIP, visual intelligent building intercom through network cable, and meet the network environment that needs high-density PoE power supply. It is suitable for hotel, campus, factory dormitory and small and medium-sized enterprises.

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

FEATURE

■ 10/100Mbps access, gigabit TP/SFP (combo port) uplink

- ◇ All series supports "Ethernet port and Gigabit Ethernet port and Gigabit SFP 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 .

■ Intelligent PoE power supply

- ◇ 8*10/100Base-TX RJ45 ports support PoE power supply to meet the needs of PoE power supply in security monitoring, teleconferencing systems, and wireless coverage.
- ◇ Conforms to the IEEE 802.3af/at PoE power supply standard, automatically recognizes PoE devices for power supply, without damaging non-POE devices. The maximum POE output power of the entire device reaches 110W (at-250W), and the maximum POE output power of a single port is 30 W.
- ◇ The PoE port supports the priority mechanism. When the remaining power is insufficient, the power supply of the high-priority port is preferentially guaranteed to prevent the device from being overloaded.

■ Innovative functional design

- ◇ Long distance switch: When opening, the speed of 1-8 port is reduced to 10M. With the existing twisted pair cable, the transmission limit of the twisted pair can be broken. The transmission distance can reach 250 meters; on the other hand, It can solve the problem of poor transmission caused by line aging.

■ The equipment is stable and reliable

- ◇ The host has low power consumption, no fan mute design, aluminum alloy metal shell, excellent heat dissipation, and ensure stable operation of products.
- ◇ The equipment fully meets the requirements of CCC; CE, FCC and RoHS safety regulations, and is safe and reliable.
- ◇ ONV self-developed power supply, high redundancy design, provides long-term stable PoE power output.

■ Easy to operate

- ◇ Plug and play, no configuration, simple and convenient.
- ◇ The user can easily understand the working status of the device through the power indicator

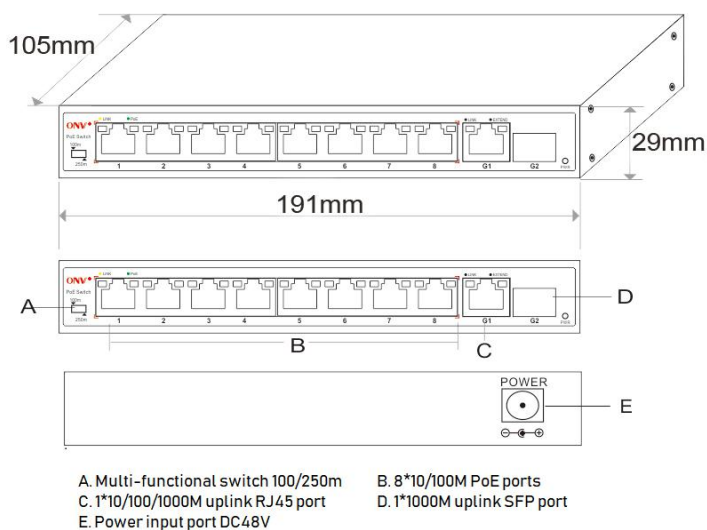
(PWR), port status indicator (Link/Act), and POE operation indicator.

TECHNICAL SPECIFICATION

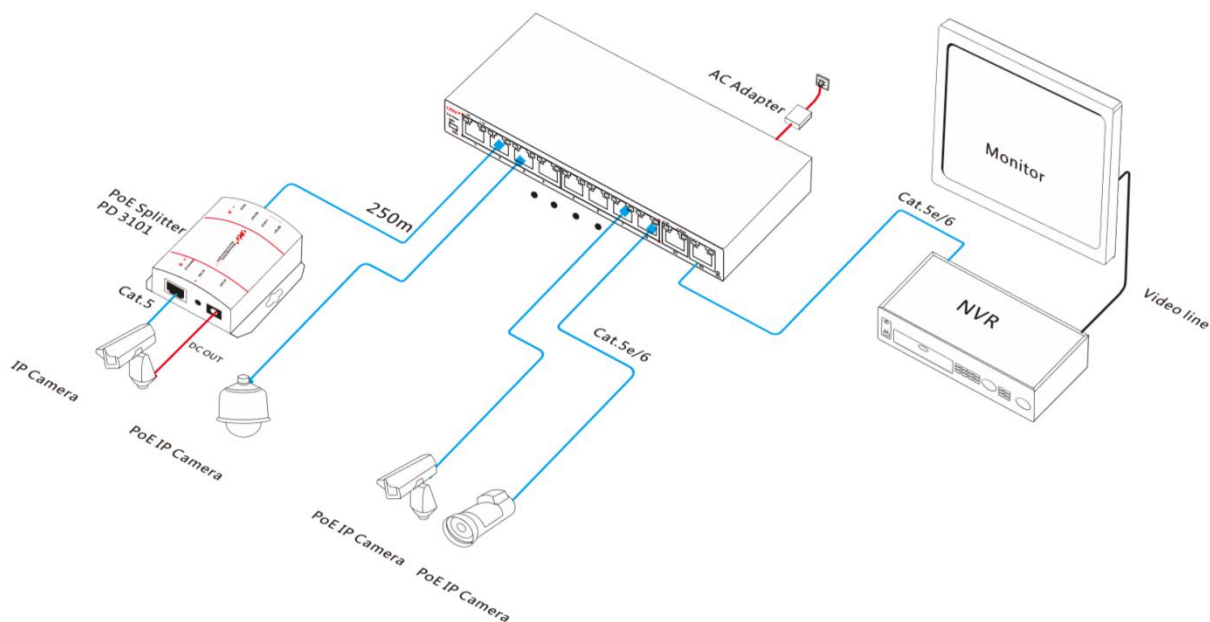
| Model | ONV-POE31108PFG | ONV-POE31108PFG-at |
|-----------------------------|---|--------------------|
| Interface | 8*10/100Base-TX PoE ports (Data/Power) 1*10/100/1000M uplink RJ45 port (Data) 1*1000M uplink SFP slot port (Data) | |
| POE port | Port1-8 support POE @ IEEE802.3af/at | |
| Network Protocol | IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3u 100Base-TX; IEEE802.3ab 1000Base-T; IEEE802.3z 1000Base-X; IEEE802.3x | |
| PoE Standard | IEEE802.3af/at | |
| Ethernet Port Feature | Port 1-8 10/100 Base-T(X),Auto-sensing, port 9:10/100/1000Base-T auto-sensing Full/half duplex MDI/MDI-X self-adaption | |
| SFP Port Characteristic | Gigabit SFP optical fiber interface, default matching optical modules, need to buy separately, (Optional single-mode / multi-mode, single fiber / dual fiber module, LC). | |
| Forwarding Mode | Store and Forward(Full Wire Speed) | |
| Switching Capacity | 11.8Gbps | |
| Forwarding Rate@64byte | 4.17Mpps | |
| MAC Address Table | 2K | |
| Buffer Memory | 2M | |
| Twisted Pair Transmission | 10BASE-T: Cat3,4,5 UTP(≤250 meter) 100BASE-TX:Cat5 or later UTP(≤100 meter) 1000BASE-T : Cat5e or later UTP(≤100 meter) | |
| Optical cable | multi-mode :850nm 0~550M, Single-mode:1310nm 0~40KM,1550nm 0~120KM. | |
| Power Supply Pin | Default: 1/2(+),3/6(-);Optional: 4/5(+),7/8(-) | |
| Max /Average Power Per Port | 30W/15.4W | 30W/30W |
| Total PWR / | 110W (DC52V) | 250W(DC52V) |

| | | |
|---|--|---|
| Input Voltage | | |
| Power Consumption | Standby:<5W;Full load:<110W | Standby:<6W;Full load:<240W |
| LED | Power Indicator : PWR (green); Data indicator: Link1 (yellow); POE indicator: PoE (green); long distance transmission: Extend(green) | |
| Power Supply | External power adapter AC100~240V 50-60Hz 2.0A | External power adapter AC100~240V 50-60Hz 4.1A |
| Operation TEMP / Humidity | -20~+55°C;5%~90% RH Non condensing | |
| Storage TEMP / Humidity | -40~+75°C;5%~95% RH Non condensing | |
| Dimension (L*W*H) | 191*105*29mm | |
| Net /Gross Weight | <0.6kg / <1.5kg | |
| Installation Method | desktop type.Wall mounting | |
| Lightning protection / protection level | Port Lightning Protection 4KV 8/20us; Protection Level: IP30 | |
| Certification | CCC;CE mark, commercial;CE/LVD EN60950;FCC Part 15 Class B;RoHS; | |
| Warranty | 3 years, lifetime maintenance. | |

DIMENSION



APPLICATION



PACKING LIST

| | CONTENT | QTY | UNIT |
|--------------|--|-----|------|
| PACKING LIST | 10-Port gigabit uplink PoE fiber switch(ONV-POE31108PFG) | 1 | SET |
| | AC Power Cable | 1 | PC |
| | Mounting Kits | 1 | SET |
| | User Guide | 1 | PC |
| | Warranty Card | 1 | PC |

ORDERING INFORMATION

| Model | Description |
|--------------------|---|
| ONV-POE31108PFG | Unmanaged PoE switch with 8*10/100M PoE port and 1*10/100/1000M uplink RJ45 port and 1*1000M uplink SFP slot port . Port1-8 can support IEEE 802.3af/at PoE international standard, Adjust function switch, 1-8 port VLAN isolation or 10M/250m long distance transmission. External 110W power supply. |
| ONV-POE31108PFG-at | Unmanaged PoE switch with 8*10/100M PoE port and 1*10/100/1000M uplink RJ45 port and 1*1000M uplink SFP slot port . Port1-8 can support IEEE 802.3af/at PoE international standard, Adjust function switch, 1-8 port VLAN isolation or 10M/250m long distance transmission. External 250W power supply. |

SELECTION OF INFORMATION

Fiber Module Selection Table

| 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, support DDM function, support hot plug and pull. | PC |
| | 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 |
| | ONV-2612-T-S 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 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 |
| Electric Module | ONV-2633 | 1.25G SFP optical module transfers to 10/100/1000M RJ45 net port. | PC |

CONTACT US



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