

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

Product Datasheet

## 10-Port Gigabit Uplink PoE Switch

(ONV-POE31108PG)



### OVERVIEW

The ONV-POE31108PG series is an unmanaged PoE switch independently developed by ONV. It has 8\*10/100M PoE ports and 2\*10/100/1000M RJ45 ports. 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 the 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 mode, plug and play, no configuration, easy to use.

## FEATURE

### ■ 10/100Mbps access, gigabit RJ45 port uplink

- ◇ A combination of 10/100M Ethernet port and Gigabit SFP port to meet the networking requirements 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, 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.

### ■ Innovative functional switch

- ◇ Long-distance switch: When opening, the speed of port 1-8 is 10M, which can break the limit of 100m transmission of twisted pair, and the transmission distance reaches 250m, which can solve the problem of poor transmission caused by line aging.

### ■ Stable and reliable

- ◇ Low power consumption and low noise, fan-less design, metal shell
- ◇ Self-developed power supply, high redundancy design, providing a long term and stable PoE power output.
- ◇ CCC,CE, FCC, RoHS.

### ■ Easy to operate

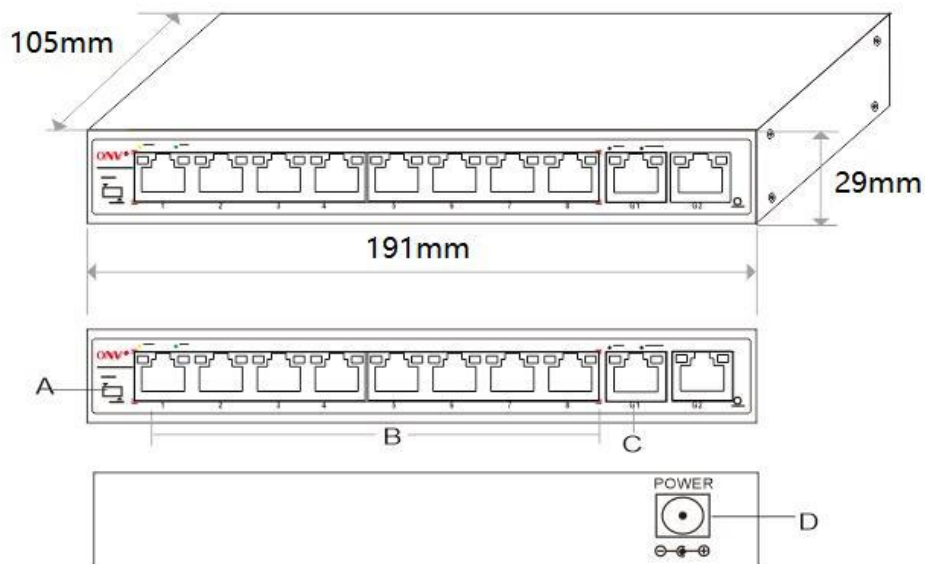
- ◇ Plug and play, no configuration, simple and convenient.
- ◇ The user-friendly panel, it can show the device status through the LED indicator of PWR, Link, PoE.

## TECHNICAL SPECIFICATION

| Model                       | ONV-POE31108PG   | ONV-POE31108PG-at                                 |
|-----------------------------|--|---|
| Interface                   | 8*10/100Base-TX PoE ports (Data/Power)<br>2*10/100/1000M uplink RJ45 ports (Data)  |   |
| PoE port                    | Port1-8 support POE @ IEEE802.3af/at   |   |
| Network Protocol            | IEEE802.3 10BASE-T;<br>IEEE802.3i 10Base-T;<br>IEEE802.3u 100Base-TX;<br>IEEE802.3ab 1000Base-T;<br>IEEE802.3z 1000Base-X;<br>IEEE802.3x |   |
| PoE Standard                | IEEE802.3af/at   |   |
| Ethernet Port Feature       | Port 1-8 10/100 Base-T(X),Auto-sensing, port 9-10:10/100/1000Base-T auto-sensing,full/half duplex MDI/MDI-X self-adaption                |   |
| 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)<br>100BASE-TX:Cat5 or later UTP(≤100 meter)<br>1000BASE-T : Cat5e or later UTP(≤100 meter)            |   |
| 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 / Input Voltage   | 110W (DC52V)   | 250W(DC52V)                                       |
| Power Consumption           | Standby:<5W;Full load:<110W  | Standby:<6W;Full load:<240W                       |
| LED                         | Power: PWR (green); Data: Link1 (yellow); POE: PoE (green); Function switch: EXTEND(green)   |   |
| Power Supply                | External power adapter<br>AC100~240V 50-60Hz 2.0A  | External power adapter<br>AC100~240V 50-60Hz 4.1A |
| Operation                   | -20~+55°C;5%~90% RH Non condensing   |   |

|   |  |
|---|--|
| TEMP / Humidity                         |  |
| Storage TEMP / Humidity                 | -40~+75°C;5%~95% RH Non condensing                               |
| Dimension                               | 191*105*29mm   |
| Net /Gross Weight                       | <0.6kg / <1.5kg  |
| Installation                            | Desktop.Wall-mounted   |
| Lightning protection / protection level | Port Lightning Protection 4KV 8/20us;<br>Protection Level: IP30  |
| Certification                           | CCC;CE mark, commercial;CE/LVD EN60950;FCC Part 15 Class B;RoHS; |
| Warranty                                | 3 years, lifetime maintenance.                                   |

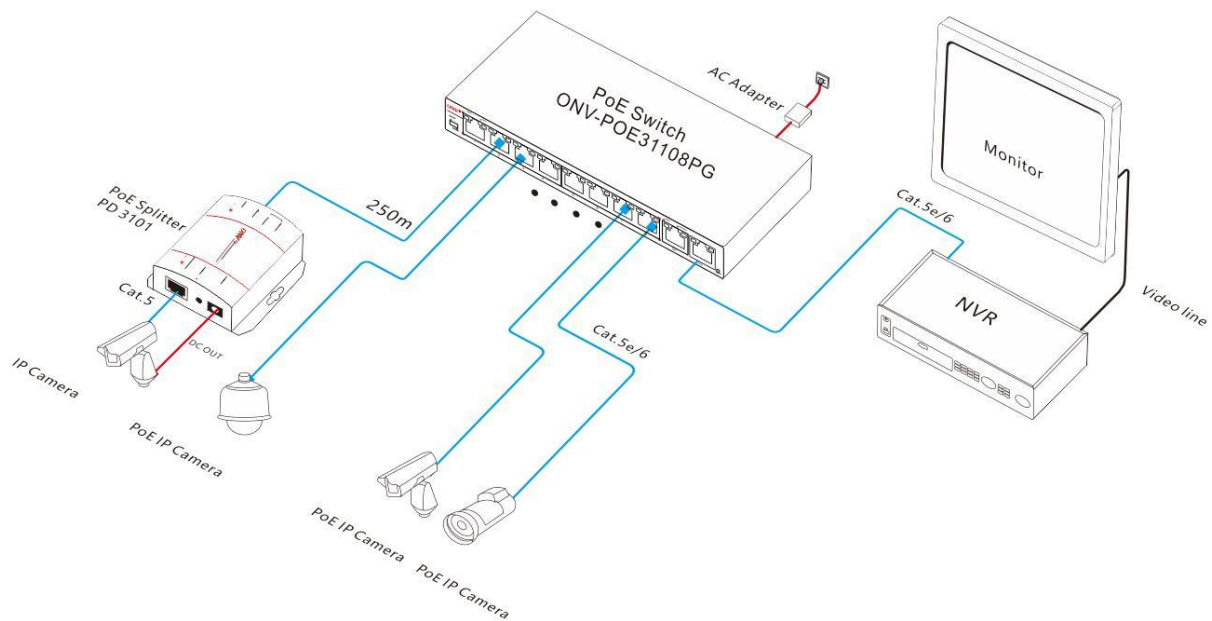
## DIMENSION



A. Multi-functional switch

B. 8\* PoE Port C. 2\*Gigabit Uplink ports D.Power input port DC48V

## APPLICATION



## PACKING LIST

|              | CONTENT                           | QTY | UNIT |
|--------------|-----------------------------------|-----|------|
| PACKING LIST | 10-Port gigabit uplink PoE switch | 1   | SET  |
|              | AC Power Cable+ Power Adapter     | 1   | SET  |
|              | Mounting Kits                     | 1   | SET  |
|              | User Guide                        | 1   | PC   |
|              | Warranty Card                     | 1   | PC   |

## ORDERING INFORMATION

| Model             | Description   |
|-------------------|---|
| ONV-POE31108PG    | Unmanaged PoE switch with 8*10/100M PoE port and 2*10/100/1000M uplink RJ45 ports. Port1-8 can support IEEE 802.3af/at PoE standard. Adjust function switch, port 1-8 can support VLAN isolation and 10M/250m transmission. External 110W power supply. |
| ONV-POE31108PG-at | Unmanaged PoE switch with 8*10/100M PoE port and 2*10/100/1000M uplink RJ45 ports. Port1-8 can support IEEE 802.3af/at PoE standard. Adjust function switch, port 1-8 can support VLAN isolation and 10M/250m 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<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   |

|                 |          |   |    |
|-----------------|----------|---|----|
|                 |          | and pull.   |    |
| Electric Module | ONV-2633 | 1.25G SFP optical module transfers to 10/100/1000M RJ45 net port. | PC |

## CONTACT US



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