

## Product Datasheet

# 11-port Gigabit Uplink PoE Switch

(ONV-H1108PFD)



## OVERVIEW

The ONV-H1108PFD is a Gigabit uplink PoE switch independently developed by ONV. It has 8\*10/100Base-TX RJ45 ports and 2\*10/100/1000Base-T uplink RJ45 ports and 1\*1000Base-X uplink SFP fiber port. Ports 1-8 can support PoE+ power supply, and single-port PoE power reaches 30W. The PoE port supports the watchdog servo function. When a port communication fails, the corresponding port PoE will automatically restart and restore network communication without affecting the normal operation of other ports. 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 APs, IP cameras, VoIP phones, video access control intercoms, etc., through a network cable to meet the network environment that needs a high-density PoE power supply. It is suitable for hotels, campuses, factory quarters, and small and medium-sized enterprises to form an economically efficient network. Plug-and-play, easy to use.

## FEATURE

### ■ 100M access, uplink Gigabit RJ45/SFP port

- ◇ Support non-blocking wire-speed forwarding.
- ◇ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.
- ◇ Provide RJ45 ports and Gigabit uplink SFP ports for flexible networking and meet the networking requirements of various scenarios.

### ■ Smart PoE power supply

- ◇ Complies with the PoE+ power standard, automatically identifies PoE devices for power without damaging non-PoE devices.
- ◇ 8\*10/100Base-TX RJ45 ports support PoE power to meet the needs of PoE power in various scenarios in the security field.

### ■ Innovative function

- ◇ **PoE watchdog:** The watchdog function is enabled by default for ports 1 to 8, which can automatically detect the data communication status in real-time. When the port communication fails, the corresponding port PoE will automatically restart.
- ◇ **Long distance + VLAN mode (E):** When the switch is turned ON (default OFF), the rate of ports 1-8 is 10Mbps, and the maximum transmission distance is up to 250 meters. At the same time, the physical VLAN isolation function of ports 1-8 is enabled.

### ■ Stable and reliable

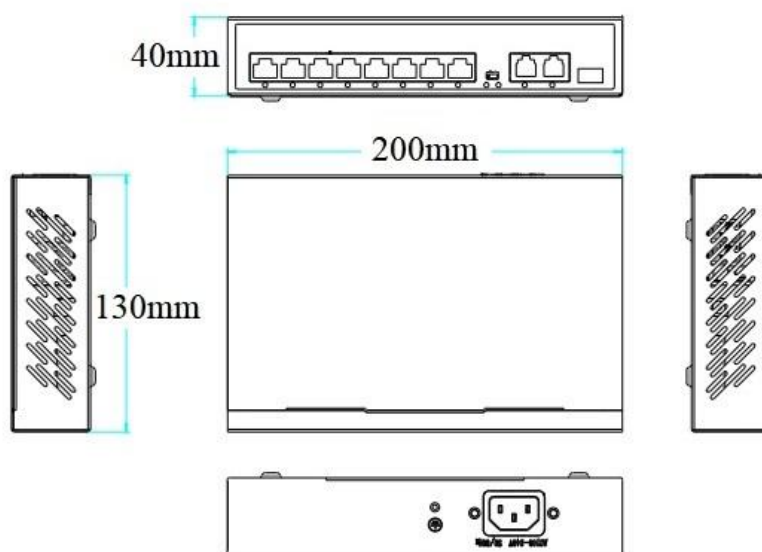
- ◇ CE, FCC, RoHS.
- ◇ Plug and play, no configuration, simple and convenient.
- ◇ The user-friendly panel can show the device status through the LED indicators of PWR, Link, and PoE.
- ◇ Low power consumption, galvanized steel housing, and excellent heat dissipation to ensure the stable operation of the switch.

## TECHNICAL SPECIFICATION

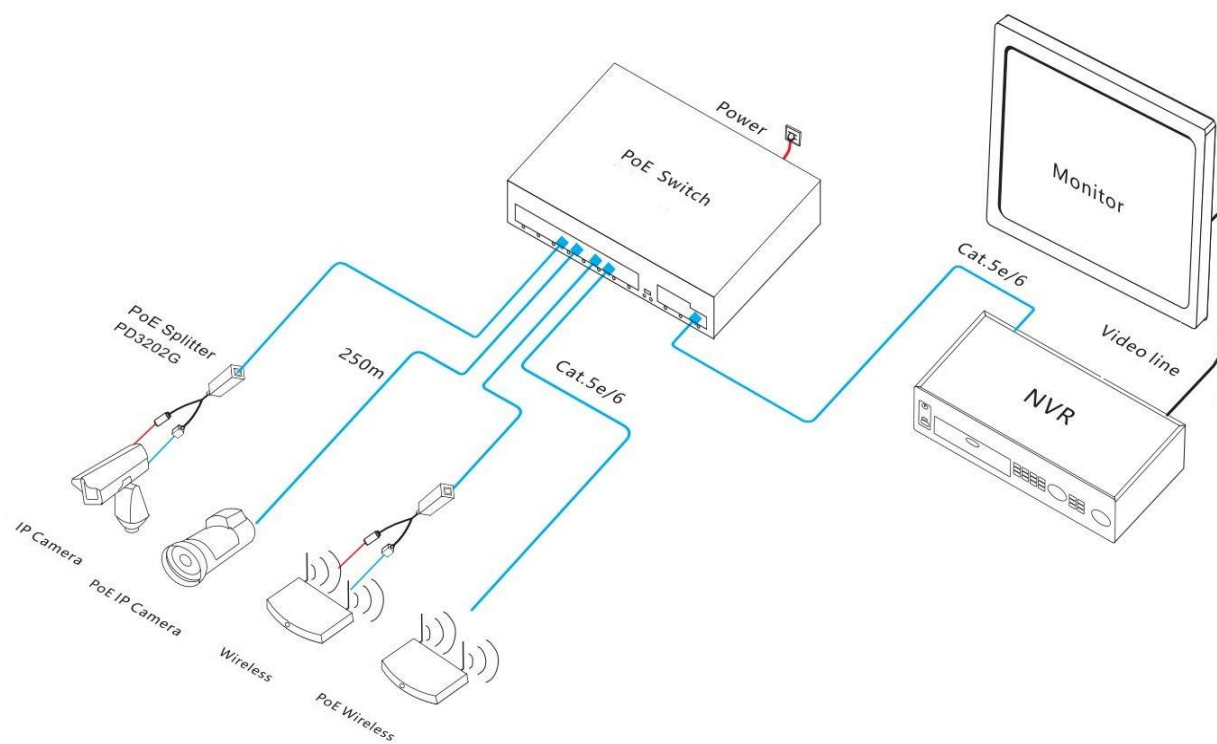
| Model                            | ONV-H1108PFD                                                                                                                                             |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Interface Characteristics</b> |                                                                                                                                                          |
| Fixed Port                       | 2*10/100/1000Base-T RJ45 ports (Data)<br>8*10/100Base-T PoE ports (Data/ Power)<br>1*1000Base-X uplink SFP fiber ports (Data)                            |
| Ethernet Port                    | Ports 1-8 support 10/100Base-T(X) and port 9-10 can support 100/1000Base-T(X) auto-sensing, full/ half duplex MDI/ MDI-X self-adaption                   |
| Twisted Pair Transmission        | 10BASE-T: Cat3,4,5 UTP ( $\leq 250$ meters)<br>100BASE-TX: Cat5 or later UTP ( $\leq 100$ meters)<br>1000BASE-T: Cat5e or later UTP ( $\leq 100$ meters) |
| 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                                                                                  |
| Function Switch                  | <b>E file:</b> long-distance and VLAN isolation (Default-OFF, enable-ON), when opening, port 1-8 support 10M/250 meter transmission and VLAN isolation   |
| <b>Chip Parameter</b>            |                                                                                                                                                          |
| Network Protocol                 | IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x                                |
| Forwarding Mode                  | Store and forward (Full wire speed)                                                                                                                      |
| Switching Capacity               | 12Gbps (non-blocking)                                                                                                                                    |
| Forwarding Rate@64byte           | 5.65Mpps                                                                                                                                                 |
| MAC                              | 2K                                                                                                                                                       |
| Buffer Memory                    | 2M                                                                                                                                                       |
| Jumbo Frame                      | 9.2K                                                                                                                                                     |
| LED Indicator                    | Power: PWR (Green), Network: Link (Green), Function switch: Extend (Green)                                                                               |

| PoE& Power Supply        |                                                          |
|--------------------------|----------------------------------------------------------|
| PoE Port                 | Port 1-8                                                 |
| Power Supply Pin         | 1/2(+) 3/6(-)                                            |
| Max Power Per Port       | 30W, PoE+                                                |
| Total PWR/ Input Voltage | 100W/ (AC100-240V)                                       |
| Power Consumption        | Standby<5W, full load<100W                               |
| Power Supply             | Built-in power supply, AC100~240V 50-60Hz, 2.0A          |
| Physical Parameter       |                                                          |
| Operation Temp/ Humidity | -20~55°C, 5%~90% RH non-condensing                       |
| Storage Temp/ Humidity   | -40~80°C, 5%~95% RH non-condensing                       |
| Dimension (L*W*H)        | 200*130*40mm                                             |
| Net /Gross Weight        | 0.65kg/ 0.95kg                                           |
| Installation             | Desktop, Wall mount                                      |
| Certification& Warranty  |                                                          |
| Lightning Protection     | Lightning protection: 4KV 8/20us, Protection level: IP30 |
| Certification            | CE mark, commercial, CE/LVD EN62368-1, FCC Part 15, RoHS |
| Warranty                 | 1 year, lifelong maintenance                             |

## DIMENSION



## APPLICATION



## ORDERING INFORMATION

| Model        | Description                                                                                                                                                                                                                                                                                                           | Built-in Power Supply |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| ONV-H1108PFD | <p>PoE switch with 8*10/100M RJ45 ports and 2*10/100/1000M uplink RJ45 ports and 1*1000M uplink SFP fiber port. Ports 1-8 support the PoE+ standard and PoE watchdog (automatic PoE restart).</p> <p>An adjustable switch allows ports 1-8 to support 10M/250-meter transmission. It has a built-in power supply.</p> | 52V/100W              |

**Note:** The optical module and mounting ear are not included and need to be purchased.

## PACKING LIST

| Packing List | Content                                     | Qty | Unit |
|--------------|---------------------------------------------|-----|------|
|              | 11-port Gigabit uplink PoE switch           | 1   | PC   |
|              | AC Power Line                               | 1   | PC   |
|              | User Guide                                  | 1   | PC   |
|              | Warranty Card and Certificate of Conformity | 1   | PC   |

## OPTICAL MODULE

| Product              | Model  | Description                                                                                                                                               | Unit |
|----------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 1.25G Optical Module | 2630   | SFP optical module, 1.25G multi-mode dual fiber 850nm, transmission distance: 550m, LC interface. Supports DDM function and hot-plugging.                 | PC   |
|                      | 2632   | SFP optical module, 1.25G single-mode dual fiber 1310nm, transmission distance: 20km, LC interface. Supports DDM function and hot-plugging.               | PC   |
|                      | 2612-T | SFP optical module, 1.25G single-mode single fiber TX1310nm/ RX1550nm, transmission distance: 20km, LC interface. Supports DDM function and hot-plugging. | PC   |
|                      | 2613-R | SFP optical module, 1.25G single-mode single fiber TX1550nm/ RX1310nm, transmission distance: 20km, LC interface. Supports DDM function and hot-plugging. | PC   |
| Power Module         | 2633   | 1.25G SFP optical module transfers to 10/100/1000M RJ45 port.                                                                                             | PC   |

## CONTACT US



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