

## Product Datasheet

# 18-port Gigabit PoE Switch

(ONV-H3016PF)



## OVERVIEW

The ONV-H3016PF is a Gigabit PoE switch independently developed by ONV. It has 16\*10/100/1000M adaptive RJ45 ports and 2\*1000M uplink SFP fiber ports. Port 1-16 can support the IEEE802.3 af/at PoE standard, and the single-port PoE power is 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 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. Unmanaged mode, plug and play, easy to use.

## FEATURE

### ■ Gigabit access

- ◇ Support IEEE 802.3x full-duplex flow control and Backpressure.
- ◇ Support non-blocking wire-speed forwarding for smoother transmission.

- ◇ Provide Gigabit RJ45 ports and SFP fiber port uplink for flexible networking, and meet the networking requirements 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.
- ◇ 16\*10/100/1000Base-T RJ45 ports can support PoE power, meeting the PoE power requirements of security monitoring, teleconferencing systems, wireless coverage, and other scenarios.

### ■ Stable and reliable

- ◇ CCC, CE, FCC, RoHS.
- ◇ The user-friendly panel can show the device status through the LED indicator of PWR, Link, PoE.
- ◇ Self-developed power supply, high redundancy, providing a long-term and stable PoE power output.
- ◇ Low power consumption, with fan, galvanized steel housing, and excellent heat dissipation to ensure stable operation of the switch.

## TECHNICAL SPECIFICATION

| Model                            | ONV-H3016PF   | ONV-H3024PF  |
|----------------------------------|---|--|
| <b>Interface Characteristics</b> |   |  |
| Fixed Port                       | 16*10/100/1000Base-T PoE ports<br>(Data/ Power)<br>2*1000Base-X uplink SFP fiber<br>ports (Data)          | 24*10/100/1000Base-T PoE ports<br>(Data/ Power)<br>2*1000Base-X uplink SFP fiber<br>ports (Data) |
| Ethernet Port                    | Port 1-16/ 1-24 can support 10/100/1000Base-T auto-sensing, full/ half<br>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        | 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          | 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        | 52Gbps (non-blocking)   |                             |
| Forwarding Rate@64byte    | 26.78Mpps   | 38.69Mpps                   |
| MAC                       | 8K  |                             |
| Buffer Memory             | 4M  |                             |
| LED Indicator             | Power: PWR (Green), Network: Link (Green), PoE: PoE (Green), Fiber port: G1/G2 (Green)                                    |                             |
| PoE &Power Supply         |   |                             |
| PoE Port                  | Port 1-16   | Port 1-24                   |
| Power Supply Pin          | 1/2 (+) 3/6 (-)   |                             |
| Max Power Per Port        | 30W, IEEE 802.3 af/at   |                             |
| Total PWR / Input Voltage | 250W /(AC100-240V)  |                             |
| Power Consumption         | Standby<15W, full load<240W   | Standby<20W, full load<250W |
| Power Supply              | Built-in power supply, AC100~240V 50-60Hz, 4.1A   |                             |
| Physical Parameter        |   |                             |
| Operation Temp/ Humidity  | -20°C~+55°C, 5%~90% RH non condensing   |                             |
| Storage Temp/ Humidity    | -40°C~+75°C, 5%~95% RH non condensing   |                             |
| Dimension (L*W*H)         | 270*181*44.5mm  | 330*204*44mm                |
| Net /Gross Weight         | 1.6kg /2.0kg  | 1.9kg /2.4kg                |
| Installation              | Desktop, wall mount, 1U/19” cabinet   |                             |

**Certification & Warranty**

|                      |   |
|----------------------|---|
| Lightning Protection | Lightning protection: 4KV 8/20us, Protection level: IP30      |
| Certification        | CCC, 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-H3016PF  | PoE switch with 16*10/100/1000M RJ45 ports and 2*1000M uplink SFP fiber ports. Port 1-16 can support the IEEE802.3 af/at PoE standard. It built-in power supply and 1U/19" cabinet installation. | 250W                  |
| ONV-H3024PF  | PoE switch with 24*10/100/1000M RJ45 ports and 2*1000M uplink SFP fiber ports. Port 1-24 can support the IEEE802.3 af/at PoE standard. It built-in power supply and 1U/19" cabinet installation. | 250W                  |
| <b>Note:</b> The optical module is not included and needs to be purchased. |  |                       |

## PACKING LIST

|              | Content                                     | Qty | Unit |
|--------------|---|-----|------|
| Packing List | 18-port Gigabit PoE switch                  | 1   | SET  |
|              | AC Power Cable                              | 1   | PC   |
|              | Mounting Kits                               | 1   | SET  |
|              | 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. support DDM function and hot plugging. | PC   |

|              |           |   |    |
|--------------|-----------|---|----|
|              | 2632      | SFP optical module, 1.25G single-mode dual fiber 1310nm, transmission distance: 20km, LC interface. support DDM function and hot plugging.              | PC |
|              | 2612-T    | SFP optical module, 1.25G single-mode single fiber TX1310nm/RX1550nm, transmission distance: 20km, LC interface. support DDM function and hot plugging. | PC |
|              | 2613-R    | SFP optical module, 1.25G single-mode single fiber TX1550nm/RX1310nm, transmission distance: 20km, LC interface. support DDM function and hot plugging. | PC |
|              | 2612-T-SC | SFP optical module, 1.25G single-mode single fiber TX1310nm/RX1550nm, transmission distance: 20km, SC interface. support DDM function and hot plugging. | PC |
|              | 2613-R-SC | SFP optical module, 1.25G single-mode single fiber TX1550nm/RX1310nm, transmission distance: 20km, SC interface. support 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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