**Product Datasheet**

# 18-port Full Gigabit PoE Switch
## (ONV-H3016PF)



## OVERVIEW

The ONV-H3016PF is an unmanaged PoE switch independently developed by ONV. It has 16*10/100/1000M adaptive RJ45 ports and 2*1000M uplink SFP ports. Port 1-16 can support IEEE 802.3 af/at PoE standard. Single port PoE power is up to 30W, and the max POE output power is 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, IP camera, VoIP phone, video access control intercom, 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 economy-efficient network. Unmanaged model, plug and play, no configuration, easy to use.

# FEATURE

■　**Full Gigabit port**

◇　Support IEEE 802.3x full-duplex flow control and Backpressure.

◇　Support non-blocking wire-speed forwarding for smoother transmission.

◇　Support the combination of RJ45 ports and Gigabit SFP ports to facilitate flexible networking and meet the networking requirements of various scenarios.

■　**Intelligent 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.

◇　The PoE port supports the priority mechanism. When the remaining power is insufficient, the power of the high-priority port is given priority to avoid overloading of the device.

◇　16*10/100/1000Base-T RJ45 ports support PoE power, meeting the PoE power requirements of security monitoring, teleconferencing system, 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 design, providing a long term and stable PoE power output.

◇　Low power consumption, with fan, galvanized steel casing, excellent heat dissipation to ensure the stable operation of the switch.

# TECHNICAL SPECIFICATION

| Model | ONV-H3016PF | ONV-H3024PF |
|---|---|---|
| **Interface Characteristics** | | |
| Fixed Port | 16*10/100/1000Base-T PoE ports (Data/Power) 2*1000Base-X uplink SFP ports (Data) | 24*10/100/1000Base-T PoE ports (Data/Power) 2*1000Base-X uplink SFP ports (Data) |
| Ethernet Port | Port 1-16/ 1-24 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) | |
| SFP Slot Port | Gigabit SFP optical fiber interface, default not matching optical modules (optional order 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 | |
| Jumbo Frame | 10K | |

| LED Indicator | Power: PWR (Green), Network: Link (Green) | |
|---|---|---|
| | PoE: PoE (Green), Fiber: G1/G2(Green), POE: PoE(Green) | |
| **PoE & Power Supply** | | |
| PoE Port | Port 1 to 16 IEEE 802.3 af/at | Port 1 to 24 IEEE 802.3 af/at |
| 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 | <1.7kg / <2.2kg | <3.0kg / <3.5kg |
| Installation | Desktop, wall mount, 19 inch 1U 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 Class B, RoHS | |
| Warranty | 1 year, lifelong maintenance. | |

## ORDERING INFORMATION

| Model | Description |
|---|---|
| ONV-H3016PF | Unmanaged PoE switch with 16*10/100/1000M RJ45 ports and 2*1000M uplink SFP ports. Port 1-16 can support IEEE 802.3 af/at PoE Standard. Built-in 250W power supply. Support 19-inch cabinet installation. |
| ONV-H3024PF | Unmanaged PoE switch with 24*10/100/1000M RJ45 ports and 2*1000M uplink SFP ports. Port 1-24 can support IEEE 802.3 af/at PoE Standard. Built-in 250W power supply. Support 19-inch cabinet installation. |

## PACKING LIST

| | Content | Qty | Unit |
|---|---|---|---|
| **Packing List** | 18-port full gigabit PoE switch | 1 | SET |
| | AC Power Cable | 1 | PC |
| | Mounting Kits | 1 | SET |
| | User Guide | 1 | PC |
| | Warranty Card | 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, support hot plug and pull. | PC |
| | 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 |
| | 2612-T | SFP optical module, 1.25G, single-mode single fiber TX1310nm/ | PC |

| | | RX1550nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull. | |
|---|---|---|---|
| | 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 |
| | 2612-T-SC | 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 |
| | 2613-R-SC | 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 |
| Power Module | 2633 | 1.25G SFP optical module transfers to 10/100/1000M RJ45 port. | PC |

## CONTACT US

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