Product Datasheet

19-port Full Gigabit PoE Fiber Switch (ONV-H3016PFD-250)



OVERVIEW

The ONV-H3016PFD-250 is an unmanaged gigabit PoE fiber switch independently developed by ONV. It has 18*10/100/1000Base-T RJ45 ports and 1*1000Base-X uplink SFP fiber port. Port 1-16 can support PoE+ power supply and single-port PoE power 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 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 mode, plug and play, no configuration, easy to use.

FEATURE

Full gigabit rate, optical port uplink

- ♦ Support non-blocking wire-speed forwarding for smoother transmission.
- ♦ Support full-duplex based on IEEE 802.3x and half-duplex based on Backpressure.

Provides Gigabit Ethernet ports and SFP port uplink for flexible networking and meets the networking requirements of various scenarios.

Smart PoE power supply

- ◇ 16*10/100/1000Base-T RJ45 ports support PoE power to meet the needs of PoE power in various scenarios in the security field.
- Comply with PoE+ power supply, automatically identify PoE devices for power without damaging non-PoE devices, and the single port max PoE output power is 30W.
- PoE port supports the watchdog function, which automatically detects the data communication status in real-time. When the port communication fails, the corresponding port PoE will automatically restart and repair the network communication by itself.

Stable and reliable, easy to use

- \diamond CCC, CE, FCC, RoHS.
- ◇ Plug and play, no configuration, simple and convenient.
- The user-friendly panel can show the device status through the LED indicator of PWR, Link, and PoE.
- Self-developed power supply, high redundancy design, providing a long-term and stable PoE power output.
- Low power consumption, no fan, galvanized steel casing, excellent heat dissipation to ensure the stable operation of the switch.

Innovative function

- PoE watchdog: The watchdog function is enabled by default for ports 1-16, which can automatically detect the data communication status in real-time. When the port communication fails, the corresponding port POE will automatically restart, and the network communication can be repaired by itself, eliminating manual maintenance costs.
- Long-distance and VLAN mode (250m): switch to ON position (default off), the port 9-16 rate is 10M, and the physical VLAN isolation function is turned on at the same time to suppress broadcast storms and improve network performance. Using the existing twisted pair

can break through the 100 meters transmission limit, and the transmission distance can be up to 250 meters. At the same time, it can solve the problem of poor transmission caused by aging lines.

TECHNICAL SPECIFICATION

| Model | ONV-H3016PFD | ONV-H3016PFD-250 | | | |
|------------------------------|------------------------------------------------------------------------------|-------------------------------|--|--|--|
| Interface Characteristics | | | | | |
| Fixed Port | 1*1000Base-X uplink SFP fiber port (Data) | | | | |
| | 2*10/100/1000Base-T uplink RJ45 ports (Data) | | | | |
| | 16*10/100/1000Base-T PoE ports (Data/Power) | | | | |
| Ethernet Port | Port 1-18 can support 100/1000Base-T(X) auto-sensing, full/ half duplex | | | | |
| | MDI/ MDI-X self-adaption | | | | |
| Twisted Dain | 10BASE-T: Cat3,4,5 UTP (≤250 meters) | | | | |
| Twisted Pair Transmission | 100BASE-TX: Cat5 or later UTP (≤100 meters) | | | | |
| | 1000BASE-T: Cat5e or later UTP (≤100 meters) | | | | |
| Optical Fiber Port | Gigabit optical fiber port, default no include optical module (optional | | | | |
| | single-mode/ multi-mode, single fiber/ dual fiber optical module. LC) | | | | |
| Optical Cable/ | Multi-mode: 850nm/ 0-550m | | | | |
| Distance | Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km | | | | |
| Functional Switch | 250m: long-distance function (Default off, Use:on), After opening, port 9-16 | | | | |
| | support 10M/250m transmission and PoE watchdog function | | | | |
| Chip Parameter | | | | | |
| Network Protocol | IEEE802.3 10BASE-T, IEEE802.3i 10 | Base-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 | 38Gbps (Non-blocking) | | | | |
| Forwarding Rate@64byte | 28.27Mpps | | | | |



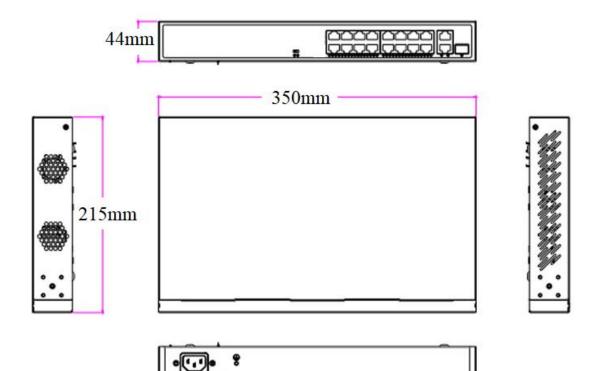
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| MAC | 4K | | | |
|------------------------|------------------------------------------------------------------|-----------------------------------|--|--|
| Buffer Memory | 4M | | | |
| Jumbo Frame | 9.2K | | | |
| LED Indicator | Power: PWR (Green), Network: Link (Green) | | | |
| | PoE: PoE (Red), Functional switch: 100m/250m (Green) | | | |
| PoE & Power Supply | | | | |
| PoE Port | Port 1-16 | | | |
| Power Supply Pin | 1/2(+) 3/6(-) | | | |
| Max Power Per Port | 30W, PoE+ | | | |
| Total PWR / Input | 160W/ (AC100-240V) | 250W/ (AC100-240V) | | |
| Voltage | 100W/ (AC100-240V) | 250VV/ (AC100-240V) | | |
| Power Consumption | Standby <5W, Full load <160W | Standby <5W, Full load <250W | | |
| Power Supply | Built-in power supply, AC100~240V | Built-in power supply, AC100~240V | | |
| Fower Supply | 50-60Hz, 3.0A | 50-60Hz, 4.1A | | |
| Physical Parameter | | | | |
| Operation TEMP/ | -20~+55°C, 5%~90% RH Non condensing | | | |
| Humidity | | | | |
| Storage TEMP/ | -40~+80°C, 5%~95% RH Non condensing | | | |
| Humidity | | | | |
| Dimension (L*W*H) | 350*215*44mm | | | |
| Net /Gross Weight | 1.75kg / 2.25kg | 2.0kg / 2.5kg | | |
| Installation | Desktop, Rack mounted | | | |
| Certification & Warran | nty | | | |
| 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. | | | |

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DIMENSION



APPLICATION



ORDERING INFORMATION

| Model | Description | Built-in Power Supply | |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--|
| ONV-H3016PFD | Unmanaged PoE switch with 18*10/100/1000M RJ45 ports and 1*1000Base-X uplink SFP fiber port. Port 1-16 can support PoE+ power supply. PoE watchdog | 52V/160W | |
| ONV-H3016PFD-250 | function is turned on by default, switch the functional switch (250m), port 9-16 rate is 10M/250m transmission and built-in power supply. | 52V/250W | |

PACKING LIST

| Packing List | Content | Qty | Unit |
|--------------|---------------------------------------|-----|------|
| | 19-port full Gigabit PoE fiber switch | 1 | SET |
| | AC Power Line | 1 | PC |
| | User Guide | 1 | PC |
| | Warranty Card | 1 | PC |

CONTACT US

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