

Product Datasheet

19-port Gigabit Uplink Non-standard PoE Switch

(ONV-H2016PFG-YS)



OVERVIEW

The ONV-H2016PFG-YS is a Gigabit uplink non-standard PoE switch independently developed by ONV. It has 16*10/100M RJ45 ports and 2*10/100/1000M uplink RJ45 ports and 1*1000M uplink SFP fiber port. Port 1-16 can support 24V non-standard PoE+ and single-port PoE power up to 18W. As a non-standard PoE power supply device, it must be connected to the corresponding non-standard electrical equipment (such as wireless bridge, building visual intercom, etc.), or the non-standard PoE splitter to convert, and then achieve the PoE power supply. It can supply power to various adaptable terminals through network cables to meet the demand for a high-density PoE power supply network environment. It is suitable for hotels, campuses, factory dormitories, and small and medium-sized enterprises to establish cost-effective networks. Plug and play, no configuration, easy to use.

FEATURE

■ 10/100M 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.
- ◇ Provides 10/100M RJ45 port and Gigabit RJ45 and SFP port, which is more convenient for users to flexibly set up to meet the network requirements of various scenarios.

■ Smart PoE power supply

- ◇ The PoE port has a short-circuit protection function to prevent accidental contact and short-circuit burns.
- ◇ Quickly implement PoE network cable power supply through the switch to directly connect non-standard electrical equipment or the switch and non-standard PoE splitter cable.
- ◇ 16*10/100Base-TX RJ45 ports can support 24V PoE power supply meeting the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.
- ◇ (8 ports in a group, each group has 4 ports at the end) The 8 ports have a delayed start function, which can avoid power overload protection caused by overload at the moment of power-on.

■ Stable and reliable

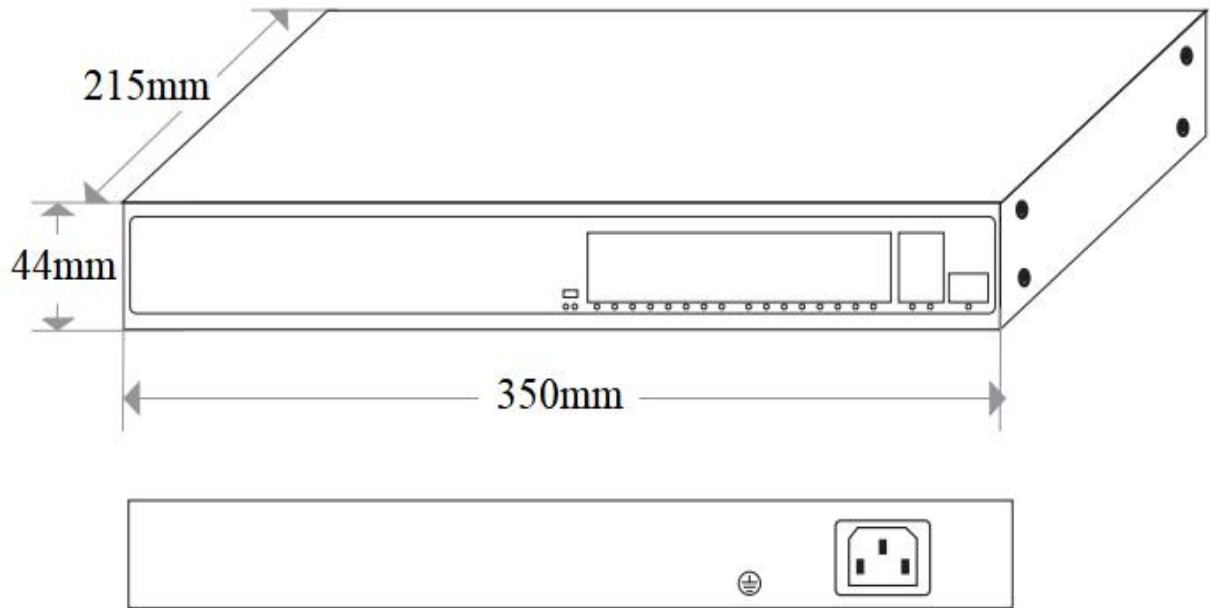
- ◇ CE, FCC, RoHS.
- ◇ Plug and play, no configuration, simple and convenient.
- ◇ The user-friendly pane can show the device status through the LED indicator of Power.
- ◇ Low power consumption, galvanized steel casing, and excellent heat dissipation ensure the stable operation of the switch.
- ◇ Long-distance mode (**250m**): When switched to the **250m** position (default off), the port 9-16 rate is 10M, the transmission distance is up to 250 meters

TECHNICAL SPECIFICATION

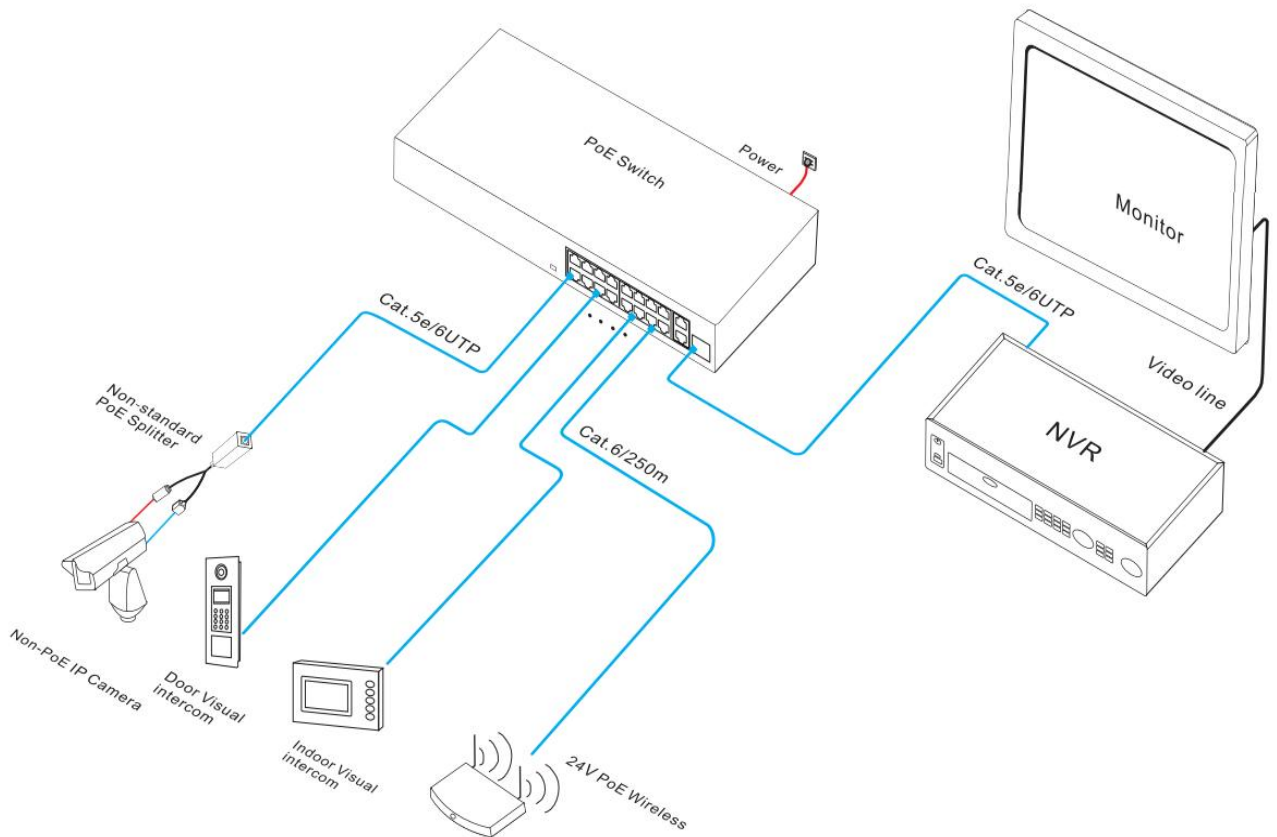
| Model | ONV-H2016PFG-YS |
|----------------------------------|---|
| Interface Characteristics | |
| Fixed Port | 1*1000Base-X uplink SFP fiber port (Data) 2*10/100/1000Base-T uplink RJ45 ports (Data) 16*10/100Base-TX 24V PoE ports (Data/ Power) |
| Ethernet Port | Port 1-16 can support 10/100Base-T(X) and port 17-18 can support 10/100/1000Base-T auto-sensing, full/ half duplex MDI/ MDI-X self-adaption |
| Twisted Pair Transmission | 10BASE-TX : Cat5 or later UTP (≤250 meters) 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/ Distance | Multi-mode: 850nm/ 0-500m Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km |
| Function Switch (100m/250m) | When switched to the 250m position, the port 9-16 rate is 10M, the transmission distance is up to 250 meters. |
| 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 | 12Gbps (non-blocking) |
| Forwarding Rate@64byte | 6.84Mpps |
| MAC | 2K |
| Buffer Memory | 2.75M |
| Jumbo Frame | 9216B |
| LED Indicator | Power: PWR (Green), Network: Link (Green), PoE: PoE(Red), Fiber |

| | |
|------------------------------------|--|
| | port: L/A (Green), Function switch: 100m/250m (Green) |
| PoE& Power Supply | |
| PoE Port | Port 1-16 |
| Power Supply Pin | 4/5(+) 7/8(-) |
| Max Power Per Port | 18W, non-standard PoE+ |
| Total PWR/ Input Voltage | 250W /(AC100-240V) |
| Power Consumption | Standby<5W, 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~+80°C, 5%~95% RH non-condensing |
| Dimension (L*W*H) | 350*215*44mm |
| Net /Gross Weight | 1.9kg/ 2.4kg |
| Installation | Desktop, Rack-mounted |
| Certification& Warranty | |
| 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-H2016PFG-YS | PoE switch with 16*10/100M RJ45 ports and 2*10/100/1000M uplink RJ45 ports and 1*1000M uplink SFP fiber port. Port 1-16 support 24V non-standard PoE+. Adjust the function switch to 250m position, port 9-16 can support 10M/250 meters transmission. Built-in power supply. | 24V/250W |

Note: The optical module is not included and needs to be purchased.

PACKING LIST

| | Content | Qty | Unit |
|--------------|--|-----|------|
| Packing List | 19-port Gigabit uplink non-standard PoE switch | 1 | PC |
| | AC Power Cable | 1 | PC |
| | User Guide | 1 | PC |
| | Warranty Card and Certificate of Conformity | 1 | PC |

OPTICAL MODULE

| Product | Model | Description | Unit |
|---------------------------|-------|---|------|
| 1.25G Optica Module | 2630 | SFP optical module, 1.25G multi-mode dual fiber 850nm, transmission distance: 0.55km, 2*LC interface. supports DDM function and hot plugging. | PC |
| | 2632 | SFP optical module, 1.25G single-mode dual fiber 1310nm, transmission distance: 20km, 2*LC interface. supports DDM function and hot plugging. | PC |

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|--------------|--------|---|----|
| | 2612-T | SFP optical module, 1.25G single-mode single fiber TX1310nm, transmission distance: 20km, LC interface. supports DDM function and hot plugging. | PC |
| | 2613-R | SFP optical module, 1.25G single-mode single fiber TX1550nm, 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 |

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