

Product Datasheet

20-port Gigabit PoE Switch

(ONV-POE33020PF)



OVERVIEW

The ONV-POE33020PF is a gigabit PoE fiber switch independently developed by ONV. It has 18*10/100/1000M adaptive RJ45 ports and 2*1000M uplink SFP fiber ports. Port 1-16 can support IEEE 802.3 af/at PoE standard and single-port PoE power reaches 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, building visual 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 dormitories, and small and medium-sized enterprises. Unmanaged model, plug and play, no configuration, easy to use.

FEATURE

■ Gigabit access, uplink SFP fiber port

- ◇ Support non-blocking wire-speed forwarding.
- ◇ Support full-duplex based on IEEE 802.3x and half-duplex based on Backpressure.
- ◇ Support Gigabit RJ45 port and uplink SFP fiber port, flexible networking to meet the networking needs 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.
- ◇ Priority system for PoE port will supply power to the high priority level port first when the power budget is insufficient and avoid overwork of the device.
- ◇ 16*10/100/1000Base-T RJ45 ports support PoE power, meeting the PoE power supply needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.

■ Stable and reliable

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

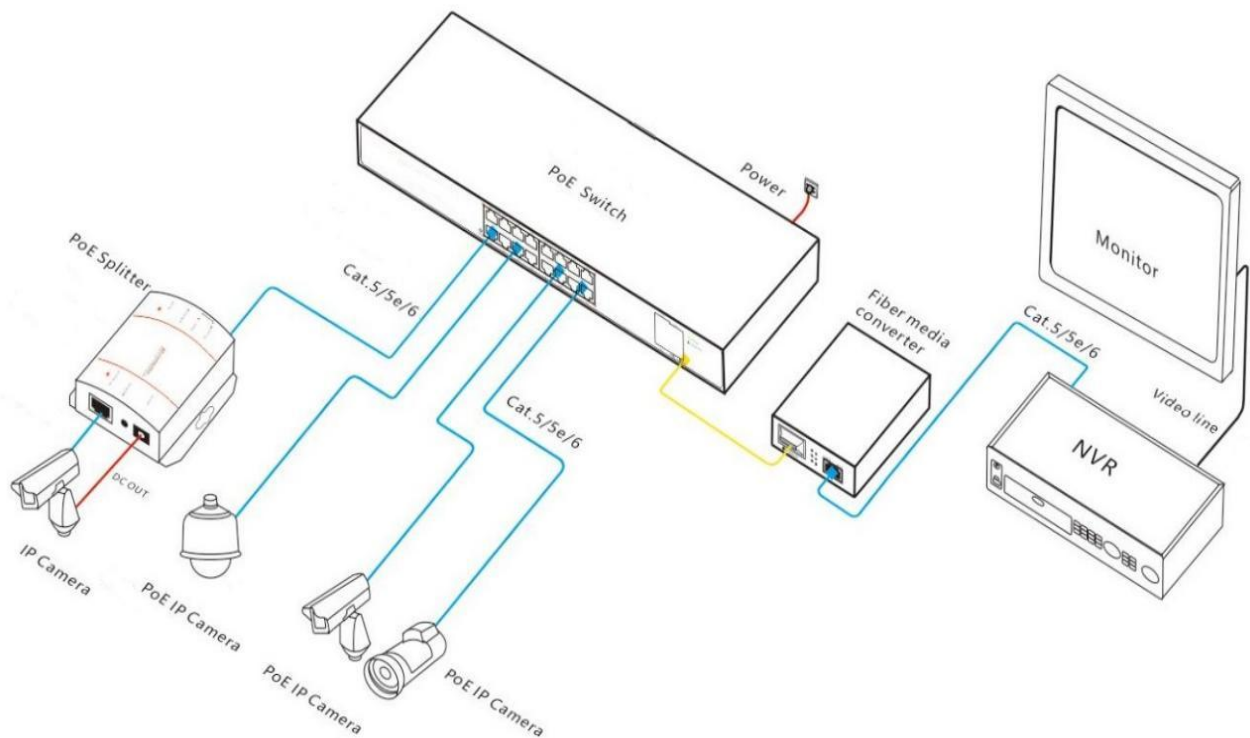
TECHNICAL SPECIFICATION

| Model | ONV-POE33020PF | ONV-POE33020PF-at |
|----------------------------------|--|-------------------|
| Interface Characteristics | | |
| Fixed Port | 2*1000Base-X uplink SFP fiber ports (Data) 2*10/100/1000Base-T uplink RJ45 ports (Data) 16*10/100/1000Base-T PoE ports (Data /Power) | |
| Ethernet Port | Port 1-16 can 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) | |
| Optical Fiber Port | Gigabit optical fiber interface, default no include optical module (optional single-mode/ multi-mode, single fiber/ dual fiber optical module. LC) | |

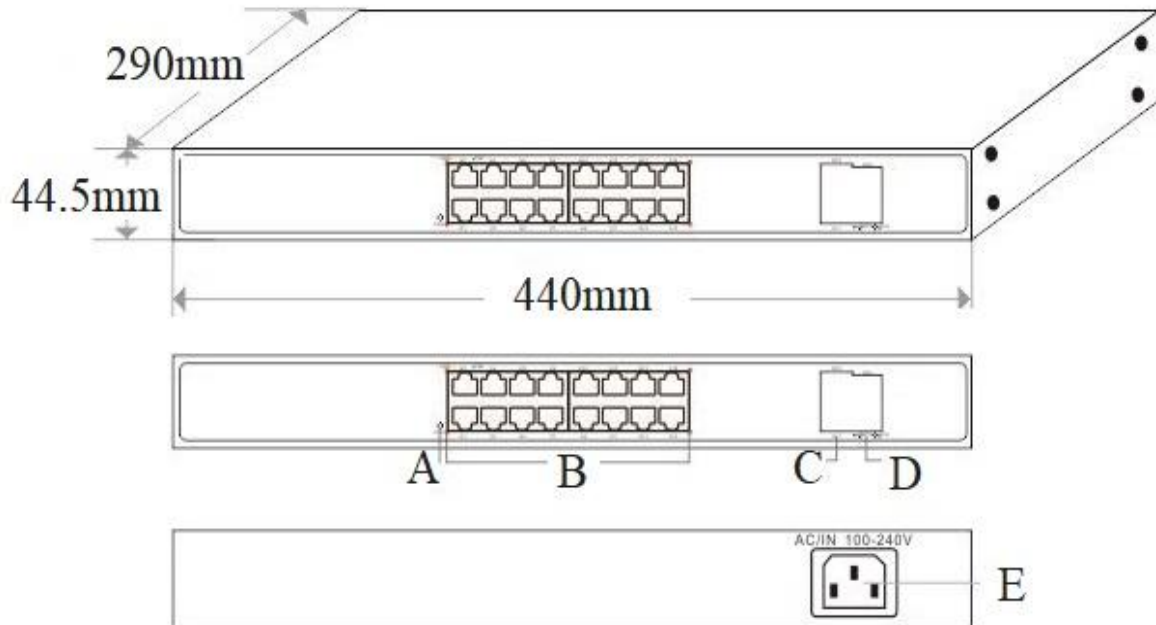
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|-------------------------------|--|--|
| Optical Cable/ Distance | Multi-mode: 850nm/ 0-550m, Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km | |
| Chip Parameter | | |
| Network Protocol | IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X, IEEE 802.3x | |
| Forwarding Mode | Store and Forward (Full Wire Speed) | |
| Switching Capacity | 56Gbps (non-blocking) | |
| Forwarding Rate @64byte | 29.76Mpps | |
| MAC | 8K | |
| Buffer Memory | 4M | |
| Jumbo Frame | 9.6K | |
| LED Indicator | Power: PWR (Green), Network: Link, Link/Act (Yellow), PoE: PoE (Green), Fiber port: L/A (Green) | |
| Reset Switch | Yes, One-button factory reset | |
| PoE & Power Supply | | |
| PoE Port | Port 1-16 | |
| Power Supply Pin | 1/2(+) 3/6 (-) | |
| Max Power Per Port | 30W, IEEE 802.3 af/at | |
| Total PWR / Input Voltage | 250W/ (AC100-240V) | 400W/ (AC100-240V) |
| Power Consumption | Standby<15W, Full Load<240W | Standby<16W, Full Load<380W |
| Power Supply | Built-in power supply, AC100-240V 50-60Hz, 4.1A | Built-in power supply, AC100-240V 50-60Hz, 5.0A |
| Physical Parameter | | |
| Operation Temp/ Humidity | -20~+55°C, 5%~90% RH Non condensing | |

| | | |
|-------------------------------------|---|--------------|
| Storage Temp/ Humidity | -40~+75°C, 5%~95% RH Non condensing | |
| Dimension (L*W*H) | 440*290*44.5mm | |
| Net /Gross Weight | 3.6kg /4.5kg | 3.9kg /4.7kg |
| 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 Class B, RoHS | |
| Warranty | 3 years, lifelong maintenance. | |

APPLICATION



DIMENSION



- A. Working indicator B. 16*10/100/1000M PoE ports
 C. 2*10/00/1000M RJ45 ports D. 2*1000M uplink SFP fiber ports
 E. Power input port AC100-240V, 50/60Hz

ORDERING INFORMATION

| Model | Description | Built-in Power Supply |
|-------------------|--|-----------------------|
| ONV-POE33020PF | Unmanaged PoE fiber switch with 18*10/100/1000M RJ45 ports and 2*1000M uplink SFP fiber ports. Port 1-16 can support IEEE 802.3 af/at PoE standard. It | 250W |
| ONV-POE33020PF-at | built-in power supply and 1U/19" cabinet installation. | 400W |

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

PACKING LIST

| Packing List | Content | Qty | Unit |
|--------------|---|-----|------|
| | 20-port gigabit PoE switch | 1 | SET |
| | AC power cable | 1 | PC |
| | Mounting Kit (Hanging Ear) | 1 | Pair |
| | 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 | PC |

| | | | |
|--------------|------|---|----|
| | | DDM function and hot plugging. | |
| Power Module | 2633 | 1.25G SFP optical module transfers to 10/100/1000M RJ45 port. | PC |

RELATED PRODUCT

| Model | Description |
|----------------|--|
| ONV-POE33108PF | Unmanaged PoE fiber switch with 8*10/100/1000M RJ45 ports and 2*1000M uplink SFP fiber ports. Port 1-8 can support IEEE 802.3 af/at PoE standard. It built-in 130W power supply and 1U/19" cabinet installation. |
| ONV-POE33128PF | Unmanaged PoE fiber switch with 10*10/100/1000M RJ45 ports and 2*1000M uplink SFP fiber ports. Port 1-8 can support IEEE 802.3 af/at PoE standard. It built-in 130W power supply and 1U/19" cabinet installation. |
| ONV-POE33016PF | Unmanaged PoE fiber switch with 16*10/100/1000M RJ45 ports and 2*1000M uplink SFP fiber ports. Port 1-16 can support IEEE 802.3 af/at PoE standard. It built-in 250W power supply and 1U/19" cabinet installation. |
| ONV-POE33024PF | Unmanaged PoE fiber switch with 24*10/100/1000M RJ45 ports and 2*1000M uplink SFP fiber ports. Port 1-24 can support IEEE 802.3 af/at PoE standard. It built-in 400W power supply and 1U/19" cabinet installation. |
| ONV-POE33028PF | Unmanaged PoE fiber switch with 26*10/100/1000M RJ45 ports and 2*1000M uplink SFP fiber ports. Port 1-24 can support IEEE 802.3 af/at PoE standard. It built-in 400W power supply and 1U/19" cabinet installation. |

CONTACT US

ONV Optical Network Video Technologies (Shenzhen) Co., Ltd.

Tel: 0086-755-33376606

Fax: 0086-755-33376608

Email: onv@onv.com.cn

Skype: onv@onv.com.cn

WeChat ID: ONV-PoE-IoT

Website: www.onvcom.com

Headquarter Address: Room 1003, Block D, Terra Building, Futian District, Shenzhen

Factory Address: Building B3, Galaxy Artificial Intelligence Industrial Park, No. 333, Zhongkai 6th Road, Chenjiang Street, Zhongkai High-tech Zone, Huizhou

