

## Product Datasheet

# 28-port Gigabit Ethernet Switch

(ONV-H3028F)



## OVERVIEW

The ONV-H3028F is a Gigabit Ethernet switch independently developed by ONV. It has 4\*1000Base-X uplink SFP fiber ports and 24\*10/100/1000Base-T adaptive RJ45 ports. The RJ45 and SFP fiber combined port can be unaffected by the transmission medium, realizing convenient connection and expansion of the network. The scheme of the large backplane and large cache switching chip is preferred to improve the forwarding rate of large files and effectively solve the problems of video freeze and picture loss in the high-definition surveillance environment. It is suitable for hotels, banks, campuses, factory quarters, and small and medium-sized enterprises to establish a cost-effective network. Unmanaged mode, plug and play, no configuration, simple and convenient to use.

## FEATURE

### ■ Gigabit rate, high-speed transmission

- ◇ 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 SFP fiber port combination, which enables users to flexibly build networking to meet the needs of various scenarios.

### ■ Stable and reliable

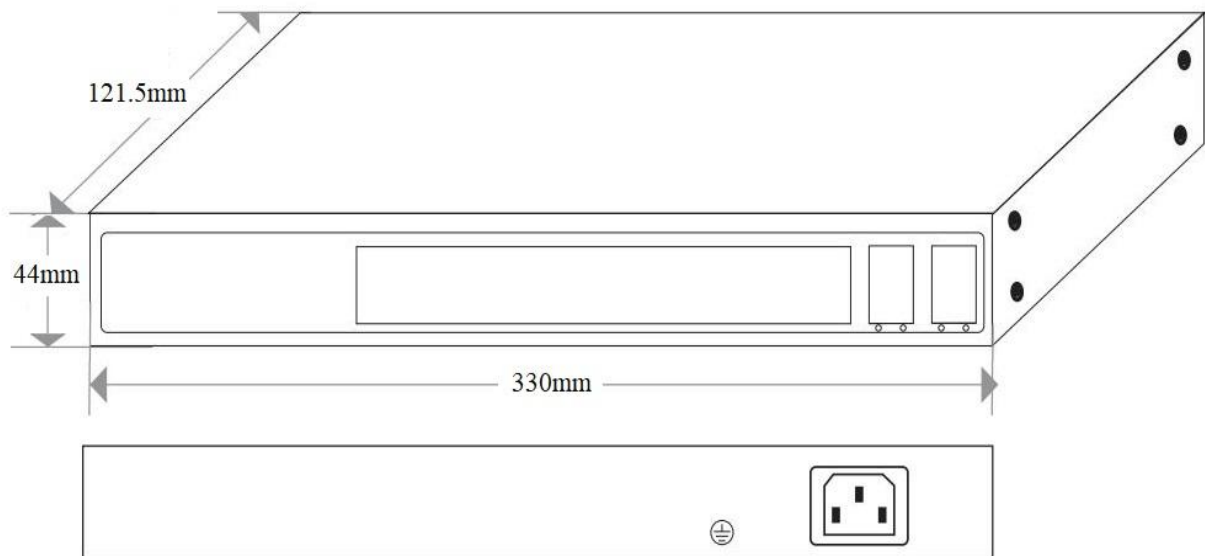
- ◇ CCC, CE, FCC, RoHS.
- ◇ Plug and play, no configuration, simple and convenient.
- ◇ Self-developed power supply, high redundancy, providing a long-term and stable power output.
- ◇ The user-friendly panel can show the device status through the LED indicator of Link/Act and PWR.
- ◇ Low power consumption,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

## TECHNICAL SPECIFICATION

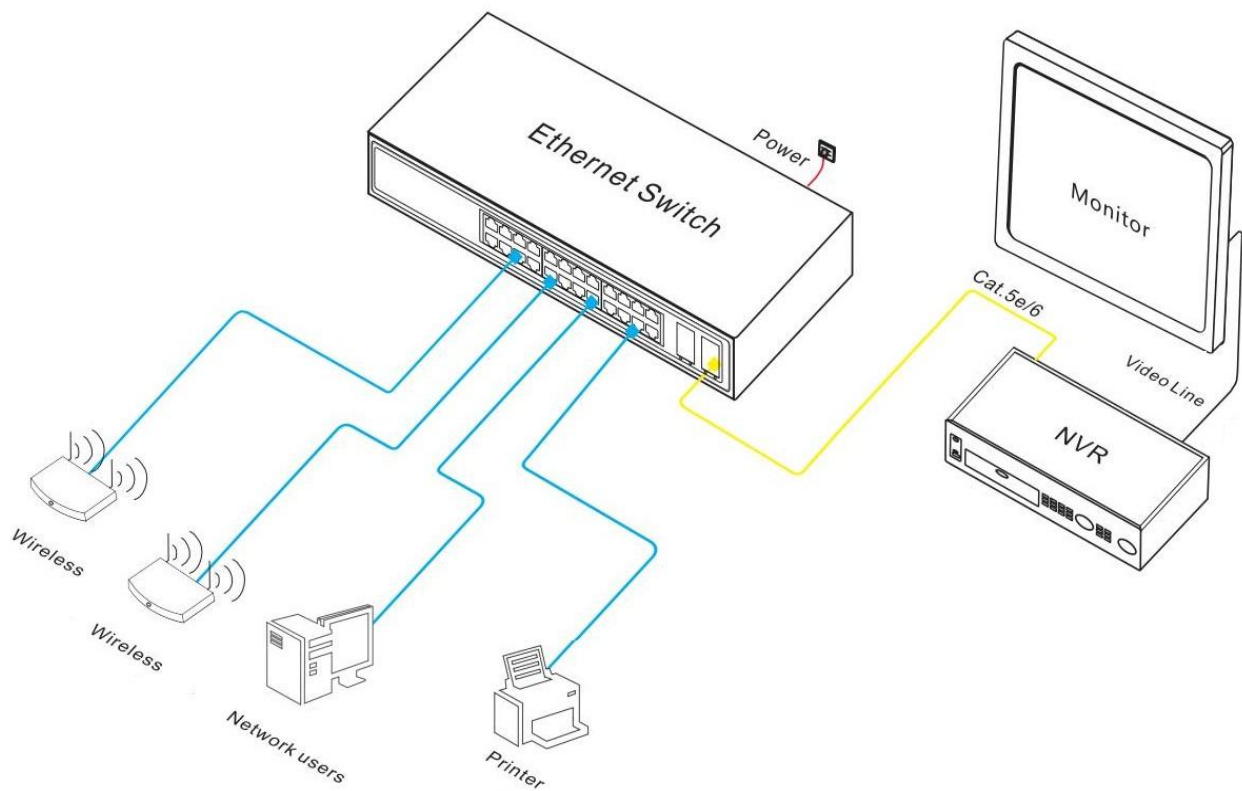
| Model                            | ONV-H3028F  |
|----------------------------------|---|
| <b>Interface Characteristics</b> |   |
| Fixed Port                       | 24*10/100/1000Base-T RJ45 ports (Data)<br>4*1000Base-X uplink SFP fiber ports (Data)  |
| Ethernet Port                    | Port 1-24 can support 10/100/1000Base-T auto-sensing, full/ half duplex<br>MDI/ MDI-X self-adaption                                   |
| Twisted Pair Transmission        | 10BASE-T: Cat3, 4, 5 UTP (≤100 meters)<br>100BASE-TX: Cat5 or later UTP (≤100 meters)<br>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/ 0-550m, Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km.   |
| <b>Chip Parameter</b>              |  |
| Network Protocol                   | IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-TX, IEEE 802.3z 1000Base-X, IEEE 802.3x |
| Forwarding Mode                    | Store and Forward (Full wire speed)  |
| Switching Capacity                 | 56Gbps (non-blocking)  |
| Forwarding Rate@64byte             | 41.66Mpps  |
| MAC                                | 8K   |
| Buffer Memory                      | 4.1M   |
| LED Indicator                      | Power: PWR (Green), Network: Link/ Act (Green)   |
| <b>Power Supply</b>                |  |
| Total PWR/ Input Voltage           | 30W/ (AC100-240V, 50-60Hz)   |
| Power Consumption                  | Standby<12W, full Load<20W   |
| Power Supply                       | Built-in power supply, AC100~240V 50-60Hz, 0.56A   |
| <b>Physical Parameter</b>          |  |
| 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)                  | 330*121.5*44mm   |
| Net /Gross Weight                  | 1.15kg /1.55kg   |
| Installation                       | Desktop, Wall mount, 1U/19" cabinet  |
| <b>Certification&amp; Warranty</b> |  |
| Lightning Protection               | 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-H3028F | Unmanaged Ethernet switch with 24*10/100/1000M RJ45 ports and 4*1000M SFP fiber ports. It built-in power supply and 1U/19" cabinet installation. | 30W                   |

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

## PACKING LIST

|              | Content                                     | Qty | Unit |
|--------------|---|-----|------|
| Packing List | 28-port Gigabit Ethernet switch             | 1   | Set  |
|              | AC Power Cable                              | 1   | PC   |
|              | Mounting Kit                                | 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, supports DDM function and hot plugging.   | PC   |
|                      | 2632   | SFP optical module, 1.25G single-mode dual fiber 1310nm, transmission distance: 20km, LC interface, supports DDM function and hot plugging. | PC   |
|                      | 2612-T | SFP optical module, 1.25G single-mode single fiber TX1310nm/RX1550nm, transmission distance: 20km, LC interface, supports                   | PC   |

|                 |           |   |    |
|-----------------|-----------|---|----|
|                 |           | DDM function and hot plugging.  |    |
|                 | 2613-R    | SFP optical module, 1.25G single-mode single fiber TX1550nm/<br>RX1310nm, transmission distance: 20km, LC interface, supports<br>DDM function and hot plugging. | PC |
|                 | 2612-T-SC | SFP optical module, 1.25G single-mode single fiber TX1310nm/<br>RX1550nm, transmission distance: 20km, SC interface, supports<br>DDM function and hot plugging. | PC |
|                 | 2613-R-SC | SFP optical module, 1.25G single-mode single fiber TX1550nm/<br>RX1310nm, transmission distance: 20km, SC interface, supports<br>DDM function and hot plugging. | PC |
| Power<br>Module | 2633      | 1.25G SFP optical module transfers to 10/100/1000M RJ45 port.   | PC |

## CONTACT US



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