Product Datasheet

# 11-port Gigabit Uplink Easy Managed PoE Switch

## (ONV-H51108PFMS)

## OVERVIEW

The ONV-H51108PFMS is a Gigabit uplink Easy managed PoE switch independently developed by ONV. It features 8*10/100Base-TX adaptive RJ45 ports and 2*10/100/1000Base-T uplink RJ45 ports and 1*100/1000Base-X SFP fiber port. Ports 1–8 support the IEEE 802.3af/at PoE standard, with a power output of up to 30W per port. As a power-sourcing equipment device, it automatically detects and identifies standards-compliant Powered Devices and supplies power to them via Ethernet cables. It can power PoE-enabled terminal devices—such as wireless access points, IP cameras, VoIP phones, and video intercom systems—making it an ideal, cost-effective networking solution for environments requiring high-density PoE deployment, including hotels, campuses, factory dormitories, and small-to-medium-sized businesses.

The ONV-H51108PFMS supports web management, the ONV-NMS cloud management platform, and mobile app management. It enables features such as security network topology management, VLAN configuration, port management, PoE management, and remote operation and maintenance. This switch offers high reliability, ease of installation

and maintenance, high-speed switching capabilities, and multiple access ports, making it suitable for connecting devices in local area networks (LANs) of various scales.

# FEATURE

## 10/100M access, uplink Gigabit RJ45/SFP fiber port

◇ Support non-blocking wire-speed forwarding.

◇ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.

◇ Supports 100M RJ45 and Gigabit RJ45 /SFP fiber port combination, which enables users to build networking to meet the needs of various scenarios flexibly.

## Smart PoE power supply

◇ Supports remote PoE management, enabling remote on/off of each PoE port, viewing of port power status, and PoE port fault query.

◇ Complies with the IEEE 802.3 af/at PoE standard, automatically identifies PoE devices for power supply, and does not damage non-PoE devices.

◇ 8*10/100Base-TX RJ45 ports support PoE power to meet the needs of security monitoring, teleconferencing systems, wireless coverage, and other scenarios.

## Minimalist application

◇ Support real-time fault alarms and fault location.

◇ Support remote upgrades, remote reboots, and factory resets.

◇ Cloud platform and mobile APP operation and maintenance management: visualized PoE power supply control, network topology management, and VLAN segmentation.

◇ It abandons complex network management configurations, retaining only practical network management functions, enabling rapid network deployment and centralized operation and maintenance through the operation and maintenance platform.

## Stable and reliable

◇ CE, FCC, RoHS.

◇ The user-friendly panel can show the device status through the LED indicators for PWR, SYS, Link, and PoE.

◇ Low power consumption, galvanized steel housing, and excellent heat dissipation ensure the stable operation of the switch.

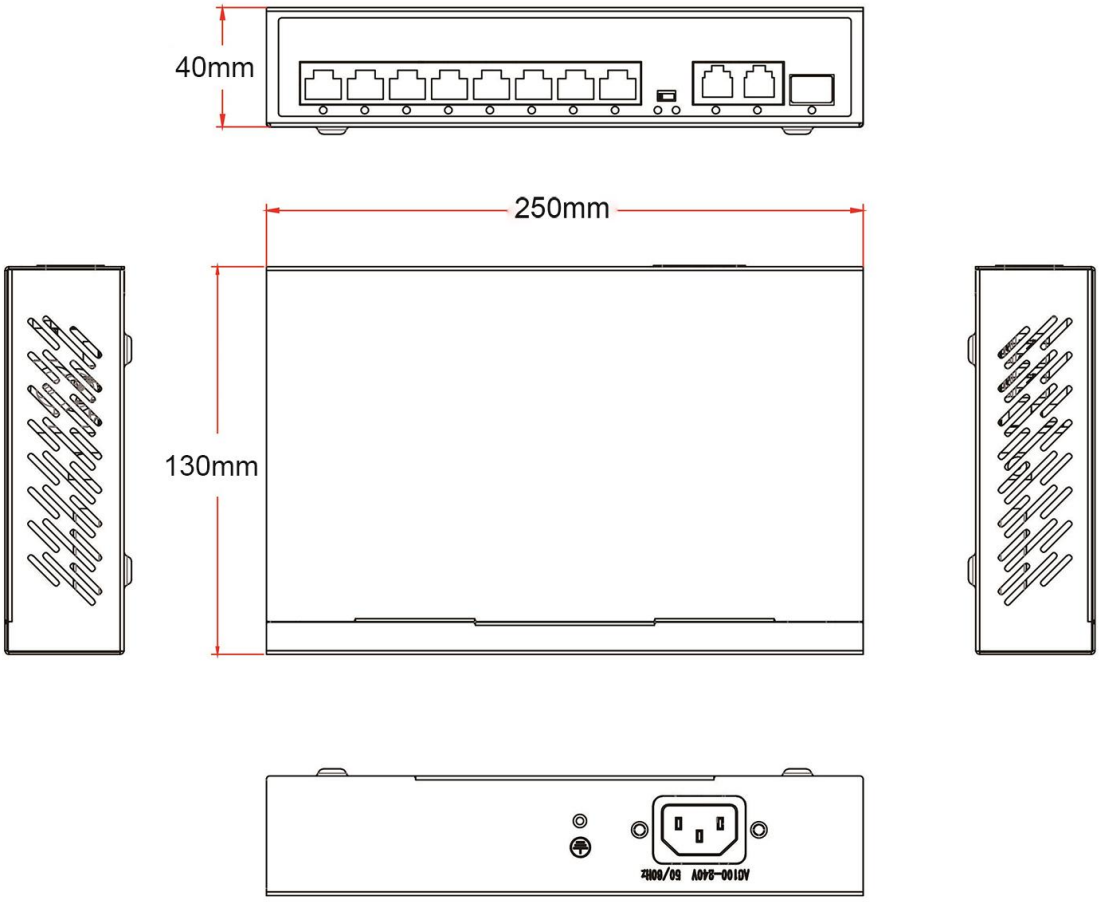
## TECHNICAL SPECIFICATION

| Model | ONV-H51108PFMS |
|---|---|
| **Interface Characteristics** | |
| Fixed Port | 8*10/100Base-TX PoE ports (Power/ Data)<br>2*10/100/1000Base-T uplink RJ45 ports (Data)<br>1*100/1000Base-X uplink SFP fiber port (Data) |
| Ethernet Port | Ports 1-8 support 10/100Base-T(X) and Ports 9-10 support 10/100/1000Base-T auto-sensing, full/ half duplex MDI/ MDI-X self-adaptation |
| 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 SFP fiber port; optical module not included (optional single-mode/ multi-mode, single-fiber/dual-fiber modules, LC) |
| Optical Cable/ Distance | Multi-mode: 850nm/ 0-550m, Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km. |
| **Chip Parameter** | |
| Network Management Type | L2 (Web management, platform management) |
| 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 | 5.65Mpps |
| MAC | 2K |
| Buffer Memory | 1.5M |

| | |
|---|---|
| Jumbo Frame | 9.2K |
| LED Indicator | Power/System: SYS (Green), Fiber: L/A (Green), Network: Link (Green), POE: PoE (Red) |
| Reset Switch | Slide the DIP switch from left to right, hold for 1–3 seconds, then slide it back from right to left; this performs a reset.<br>Positioned to the left: Web (management mode); positioned to the right: unmanaged mode. |
| **PoE& Power Supply** | |
| PoE Port | Port 1-8 |
| PoE Management | Port PoE output on/off, Port PoE operating status display |
| Power Supply Pin | 1/2(+) 3/6(-) |
| Max Power Per Port | 30W, IEEE 802.3 af/at |
| Total PWR/ Input Voltage | 120W/ (AC100-240V) |
| Power Consumption | Standby<6W, full load<120W |
| Power Supply | Built-in power supply, AC100~240V 50-60Hz, 2.0A |
| **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) | 200*130*40mm |
| Net /Gross Weight | <0.65kg/ <0.95kg |
| Installation | Desktop, wall mount |
| **Certification& Warranty** | |
| Lightning Protection | Lightning protection: 4KV 8/20us, Protection level: IP30 |
| Certification | CE, FCC, RoHS |
| Warranty | 1 year, lifelong maintenance |
| **Network Management Feature** | |
| System Management | IP settings, Account management, Port traffic settings, System information display |
| VLAN | MTU VLAN |

| | |
|---|---|
| Security | Broadcast storm control, Port isolation, Port speed limit |
| Management | ONV-NMS Platform management(Cloud Platform), One-key recovery<br>Mobile APP operation and maintenance management, Web Management |
| System | Web browser: Mozilla Firefox 2.5 or higher, Google Chrome 42 or higher, Cat5 and above Ethernet cable<br>TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, Mac OS X) installed on each computer in the network Cat5 and above Ethernet cable |

## DIMENSION



# APPLICATION

# ORDERING INFORMATION

| Model | Description | Built-in Power Supply |
|---|---|---|
| ONV-H51108PFMS | Easy managed PoE switch with 8*10/100M RJ45 ports and 2*10/100/1000M uplink RJ45 ports and 1*100/1000M uplink SFP fiber port. Ports 1-8 support the IEEE 802.3 af/at PoE standard. It has a built-in power supply and supports desktop and wall-mount. | 120W |
| **Note:** The optical module is not included and needs to be purchased. | | |

## PACKING LIST

| | Content | Qty | Unit |
|---|---|---|---|
| Packing List | 11-port Gigabit uplink Easy managed 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 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 DDM function and hot-plugging. | PC |
| | 2613-R | SFP optical module, 1.25G single-mode single fiber TX1550nm/ RX1310nm, transmission distance: 20km, LC interface. Supports DDM function and hot-plugging. | PC |

## CONTACT US

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