

## Product Datasheet

# 6-port Full Gigabit E Managed PoE Switch

(ONV-H5064PFM)



## OVERVIEW

The ONV-H5064PFM is a full Gigabit L2 E managed PoE switch independently developed by ONV. It has 4\*10/100/1000Base-T adaptive RJ45 ports and 2\*1000Base-X SC ports (default single-mode single fiber A and B terminal). Port 1-4 can support IEEE802.3af/at PoE standard. Single-port PoE power is 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 network cable, to meet the network environment that needs high-density PoE power supply. It is suitable for hotels, campuses, factory dormitories and SMB small and medium-sized enterprises to form cost-effective networks.

The ONV-H5064PFM support WEB management, and support ONV-NMS management platform and cloud APP management at the same time. Multiple ring network protocols RSTP (<50ms) improve link backup and network reliability, reduce the number of spliced fibers and network nodes, improve construction efficiency, and when the one-way network

fails, communication can be quickly restored to ensure uninterrupted communication of important transmissions. It can realize functions such as security network topology management, link aggregation, port management, port mirroring and remote operation and maintenance. The ONV-H5064PFM switch has high reliability, is easy to install and maintain, has fast switching function, and multiple access ports, and is suitable for accessing LAN devices of various scales.

## FEATURE

### ■ Gigabit access, Dual SC port uplink

- ◇ Support non-blocking wire-speed forwarding.
- ◇ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.
- ◇ Support Gigabit Ethernet port and Gigabit SC port combination, which enables users to flexibly build networking to meet the needs of various scenarios.

### ■ Intelligent PoE power supply

- ◇ IEEE802.3af/at PoE standard, without damaging non-PoE devices.
- ◇ Remote POE management function, realizing remote switch of PoE port, port power status check, POE port fault query function, etc.
- ◇ Priority system for PoE port, it will supply power to the high priority level port first when the power budget is insufficient and avoid overwork of the device.
- ◇ 4\*10/100/1000Base-T RJ45 support PoE power, meeting the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.

### ■ Extreme optimization, minimalist application

- ◇ Support remote upgrade, remote restart, restore factory settings.
- ◇ Support real-time fault alarm, fault location, automatic order dispatch.
- ◇ Support local platform, cloud platform and mobile APP O&M management.
- ◇ Visual network topology management, VLAN division, QoS, link aggregation, loop

protection, port mirroring, PoE control, port control and bandwidth management.

- ◇ According to the application requirements, the complex network management configuration is abandoned, and the practical network management functions are retained. The network deployment and centralized O&M can be quickly realized through the O&M platform.

#### ■ Stable and reliable

- ◇ CCC, CE, FCC, and RoHS.
- ◇ Low power consumption, galvanized steel casing, no fan.
- ◇ The user-friendly panel can show the device status through the LED indicator of PWR, SYS, Link, P.

## TECHNICAL SPECIFICATION

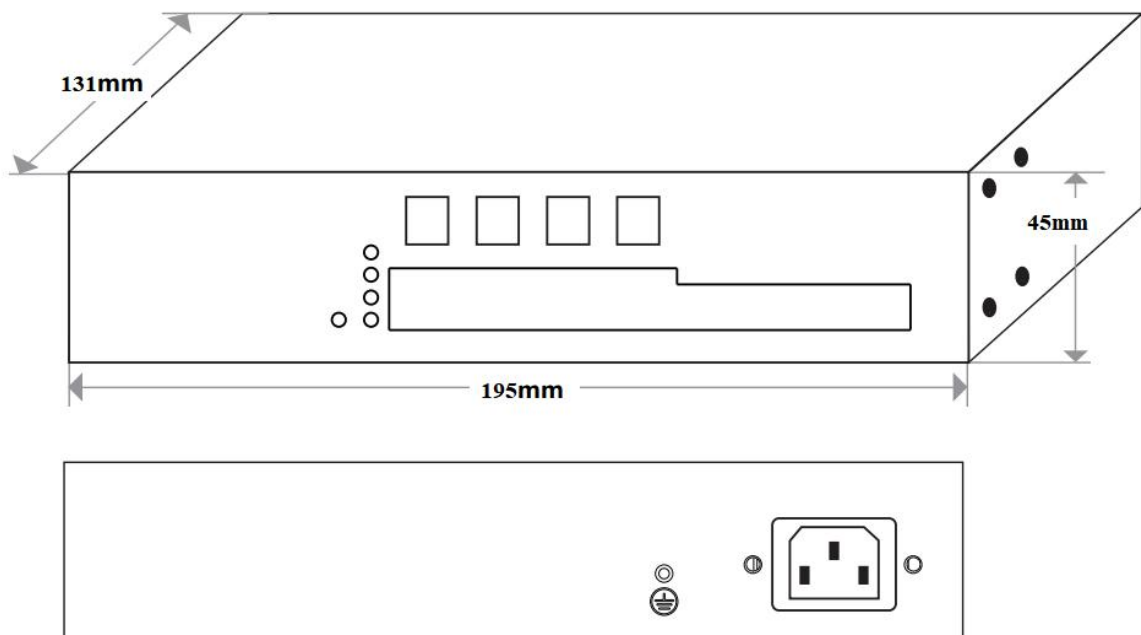
Model	ONV-H5064PFM
<b>Interface Characteristics</b>	
Fixed Port	4*10/100/1000Base-T PoE ports (Power/Data) 2*1000Base-X SC ports(Data) (Default single-mode single fiber A and B terminal)
Ethernet Port	Port 1-4 support 10/100/1000Base-T(X) auto-sensing, full/half duplex MDI/MDI-X self-adaption
Twisted 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)
SC Slot Port	Gigabit SC optical fiber interface, Default single-mode single fiber A+B terminal optical module(optional single-mode dual fiber/multi-mode dual fiber optical module)

Optical Cable/ Distance	Multi-mode: 850nm / 0-500M, Single-mode:1310nm / 0-40KM, 1550nm / 0-120KM.
<b>Chip Parameter</b>	
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	8.93Mpps
MAC	2K
Buffer Memory	2MB
Jumbo Frame	9.2KB
LED Indicator	Power: PWR(Green), System: SYS(Green), Network: Link (Yellow) Fiber port: GF5,GF6(Green)
Reset Switch	Press and hold for 6s and release to restore the factory settings, short press 2 times (1s interval) to switch to the unmanaged state
<b>Power Supply</b>	
PoE Port	Port 1 to 4
PoE Management	PoE working status display, Port PoE on/off
Power Supply Pin	1/2 (+) 3/6(-)
Max Power Per Port	30W, IEEE802.3af/at
Total PWR / Input Voltage	65W/ (AC100-240V)
Power Consumption	Standby<5W, Full load<65W
Power Supply	Built-in power supply, AC 100~240V 50-60Hz 1.0A

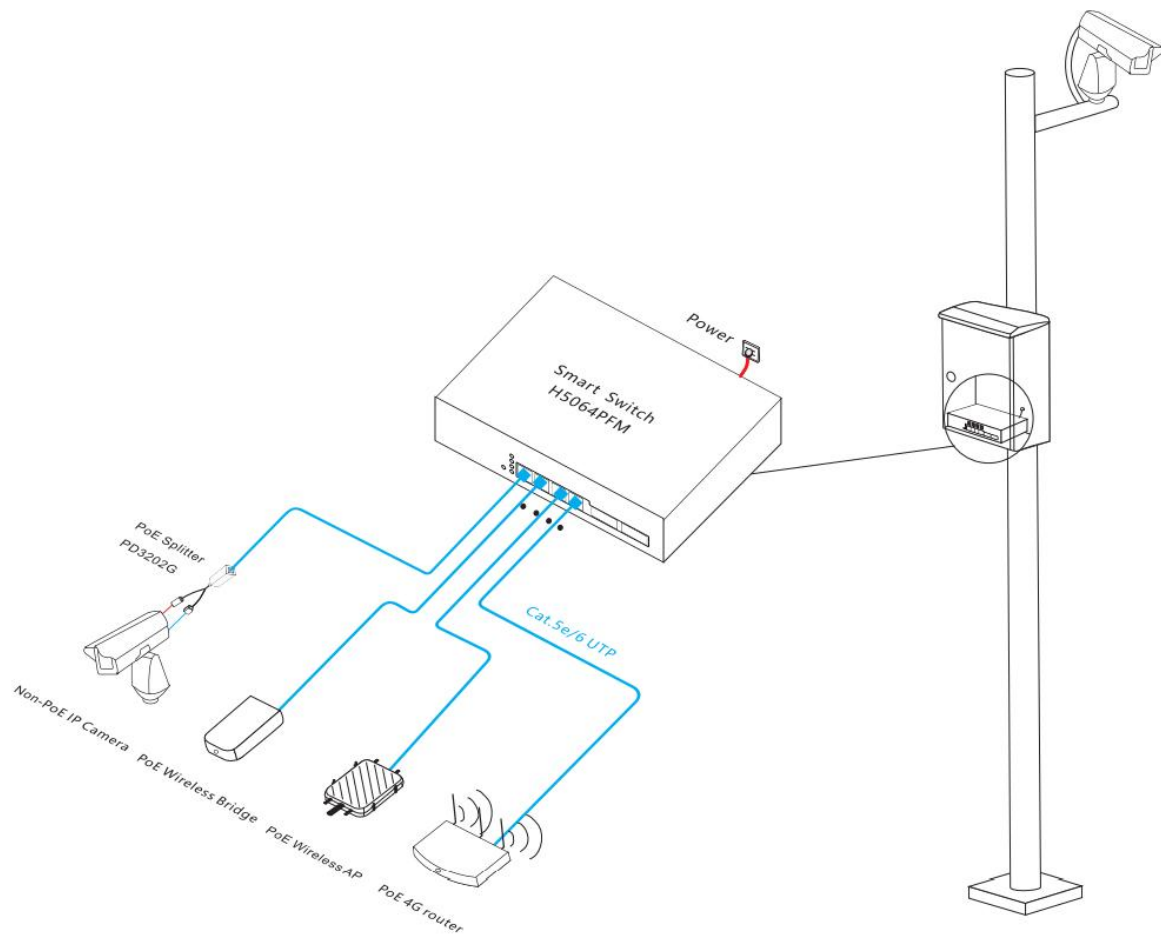
<b>Physical Parameter</b>	
Operation TEMP / Humidity	-20°C~+55°C, 5%~90% RH Non condensing
Storage TEMP / Humidity	-40°C~+80°C, 5%~95% RH Non condensing
Dimension (L*W*H)	195*131*45mm
Net /Gross Weight	<1.5kg / <1.7kg
Installation	Desktop, Wall-mounted
<b>Certification &amp; Warranty</b>	
Lightning Protection	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.
<b>Network Management Features</b>	
Interface	Port status display, Port traffic statistics Port duplex/negotiation rate configuration EEE Energy-saving and green Ethernet function IEEE802.3x flow control configuration (Full-duplex)
VLAN	Port-based IEEE802.1Q VLAN configuration (4K)
Port Aggregation	Static aggregation
Loop Protection	Loop protection function, Prevent ring network failure function
Multicast	IGMP Snooping v1/v2, Max 256 multicast groups
Port Mirroring	Bidirectional data mirroring based on port
QoS	Diff-Serv QoS, Priority Mark/Remark 8*Output queues of each port, 802.1p/DSCP priority mapping
Security	Broadcast storm control, Port isolation, Port speed limit
DHCP	DHCP Snooping
Management	Mobile APP operation and maintenance management

	<p>ONV-NMS platform management (Local platform/Cloud platform)</p> <p>One-key recovery, Cable Diagnose, Web Management (HTTPS)</p>
System	<p>Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or higher, Category 5 and above Ethernet cables</p> <p>TCP/IP, network adapter, and network operating systems (Such as Microsoft Windows, Linux or Mac OSX) are installed on each computer in the network with Category 5 and above Ethernet cables</p>

## DIMENSION



## APPLICATION



## ORDERING INFORMATION

Model	Description	Power Supply
ONV-H5064PFM	E managed PoE switch with 4*10/100/1000M RJ45 ports and 2*1000M SC ports (default single-mode single fiber A and B terminal). Port 1-4 support IEEE802.3af/at PoE standard. It support desktop, wall-mounted.	65W

## PACKING LIST

	Content	Qty	Unit
Packing List	6-port full Gigabit E managed PoE switch	1	SET
	AC Power Cable	1	PC
	User Guide	1	PC
	Warranty Card	1	PC

## RELATED PRODUCT

Model	Description
ONV-H5064FM-4DC	E managed ring network switch with 4*10/100/1000M RJ45 ports and 2*1000M SC ports (default single-mode single fiber A and B terminal). It support 4*DC12V output. Built-in power supply. It support wall-mounted, desktop.
ONV-H5108PFM	E managed PoE switch with 8*10/100/1000M RJ45 ports and 2*100/1000M SFP ports. Port 1-8 support IEEE802.3af/at PoE standard. It support desktop, wall-mounted.



## CONTACT US

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

Tel: 0086-755-33376606

Fax: 0086-755-33376608

Website: [www.onvcom.com](http://www.onvcom.com)

WeChat ID: ONV-PoE-IoT

Email: [onv@onv.com.cn](mailto:onv@onv.com.cn)

Skype: [onv@onv.com.cn](https://www.skype.com/people/onv@onv.com.cn)

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

Factory Address: The 4-6th Floor, No. 59, Huaning Road, Xinwei Community, Dalang

Street, Longhua District, Shenzhen

