

Product Datasheet

6-port Gigabit Easy Managed Ethernet Switch

(ONV-H5064FM-4DC)



OVERVIEW

The ONV-H5064FM-4DC is a Gigabit Easy managed Ethernet switch independently developed by ONV. It has 4*10/100/1000Base-T adaptive RJ45 ports and 2*1000Base-X uplink SC fiber ports (default single-mode single fiber A and B terminal), integrated 4-channel DC12V output. The max load power of single-channel is 12W, and each channel power supply can be turned on/off remotely independently. Effectively reduce the connection of power adapters, simplify equipment connections, improve construction efficiency, and improve operation and maintenance efficiency.

The ONV-H5064FM-4DC can support Web management, ONV-NMS management platform, and mobile APP cloud platform management, which can realize functions such as security network topology management, link aggregation, port management, port mirroring, and remote operation and maintenance. The switch has high reliability, easy installation and maintenance, a fast switching function, and multiple access ports, which are suitable for access to LAN devices of various scales.

FEATURE

■ Gigabit access, uplink SC 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 SC fiber port combination, which enables users to flexibly build networking to meet the needs of various scenarios.

■ Remote power control

- ◇ The switch provides 4-channel DC12V controllable power outputs and the single-channel max power is 12W, and can remotely control the single-channel power on/off.
- ◇ The switch can achieve 4-channel network connection, 2-channel optical fiber connection, 4-channel DC12V power connection, support cloud platform network management and control and APP mobile operation and maintenance, and effectively reduce the connection of power adapters.

■ Extreme Optimization, minimalist application

- ◇ Real-time fault alarm and fault location.
- ◇ Remote upgrade, remote restart, and factory reset.
- ◇ Local platform, cloud platform, and mobile APP operation and maintenance management.
- ◇ Visual network topology management, VLAN division, port control, and switching capacity management.
- ◇ Practical network management functions are retained according to industry application requirements, and network deployment and centralized operation and maintenance can be quickly realized through the operation and maintenance platform.

■ Stable and reliable

- ◇ CCC, CE, FCC, RoHS.
- ◇ The user-friendly panel can show the device status through the LED indicator of PWR, SYS, and Link.
- ◇ Low power consumption, no fan. galvanized steel housing, and excellent heat dissipation to ensure the stable operation of the switch.

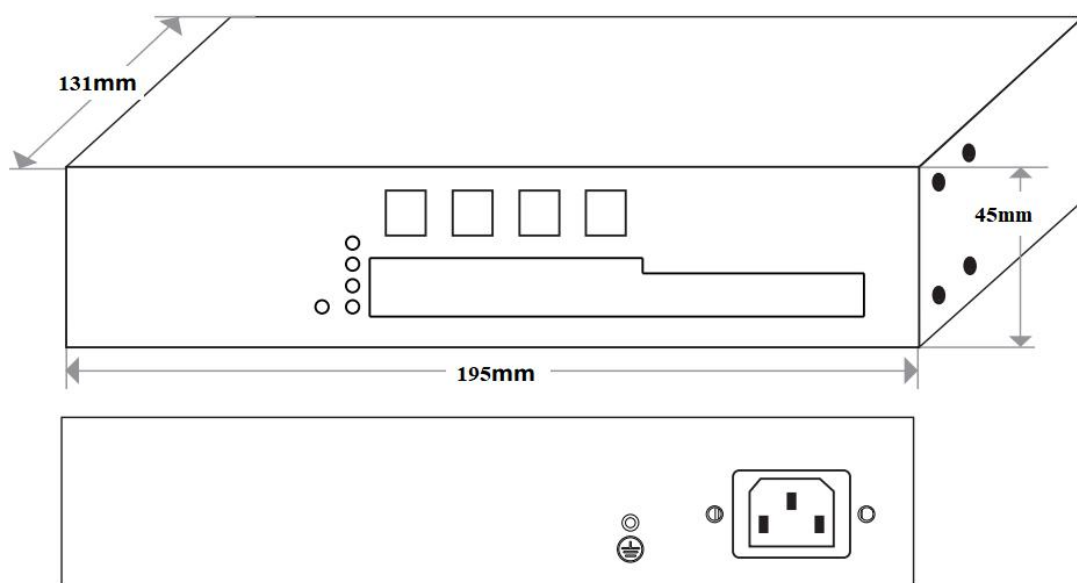
TECHNICAL SPECIFICATION

Model	ONV-H5064FM-4DC
Interface Characteristics	
Fixed Port	4*10/100/1000Base-T RJ45 ports(Data) 4*DC12V power ports (Single channel max 12V/1A) 2*1000Base-X uplink SC fiber ports (Data) (Default single-mode single fiber A and B terminal)
Ethernet Port	Port 1-4 can 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)
Optical Fiber Port	Gigabit 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/ 0-550m, Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km.
Chip Parameter	
Network Management Type	L2 (Web management, platform management)
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	12Gbps (non-blocking)
Forwarding Rate @64byte	8.93Mpps
MAC	2K
Buffer Memory	2M

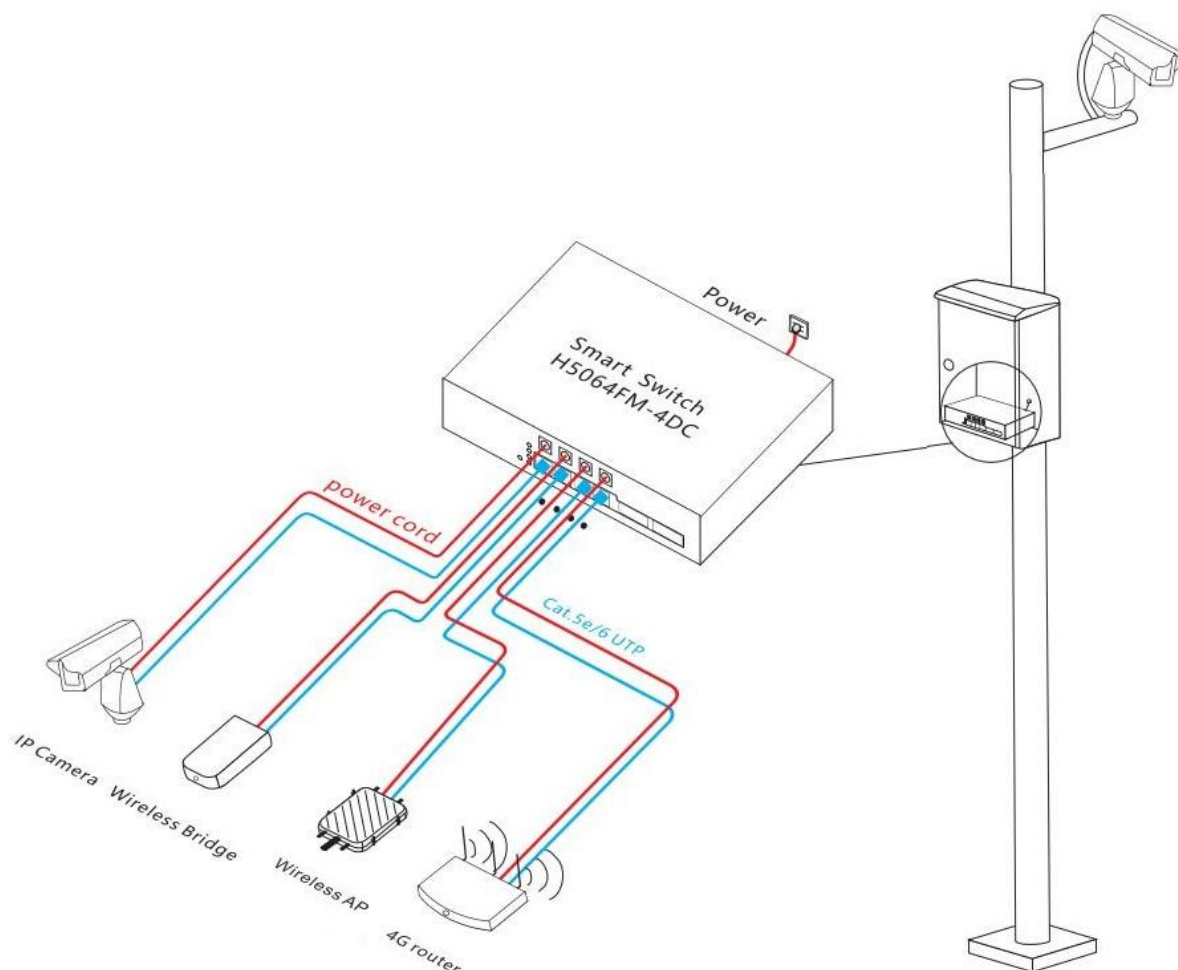
Jumbo Frame	9.2K
LED Indicator	Power: PWR (Green), System: SYS (Green), Network: Link (Yellow) Fiber port: GF5, GF6 (Green), DC12V power: DC12V (Green)
Reset Switch	Press and hold for 6s and release to restore the factory settings, short press 2 times (1s interval) to switch to the unmanaged state
Power Supply	
Power Port	4-channel DC12V power output, Single channel max power 12W
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
Physical Parameter	
Operation Temp/ Humidity	-20~+55°C, 5%~90% RH Non condensing
Storage Temp/ Humidity	-40~+80°C, 5%~95% RH Non condensing
Dimension (L*W*H)	195*131*45mm
Net /Gross Weight	0.75kg/ 1kg
Installation	Desktop, Wall mount
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	1 year, lifelong maintenance.
Network Management Feature	
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 One-key recovery, Cable Diagnose, Web Management (https) ONV-NMS platform management (Local platform/ Cloud platform)
System	Web browser: Mozilla Firefox 2.5 or higher, Google Chrome V42 or higher, Cat5 and above Ethernet cable 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-H5064FM-4DC	L2 Easy managed Ethernet switch with 4*10/100/1000M RJ45 ports and 2*1000M uplink SC fiber ports (default single-mode single fiber A and B terminal). It can support 4-channel DC12V power output.	65W

PACKING LIST

Packing List	Content	Qty	Unit
	6-port Gigabit Easy managed Ethernet switch	1	SET
	AC Power Cable	1	PC
	User Guide	1	PC
	Warranty Card and Certificate of Conformity	1	PC

RELATED PRODUCT

Model	Description
ONV-H5064PFM	L2 Easy managed PoE switch with 4*10/100/1000M RJ45 ports and 2*1000M uplink SC fiber ports (default single-mode single fiber A and B terminal). Port 1-4 can support IEEE 802.3 af/at PoE standard. Built-in power supply.

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