Product Datasheet

6-port Full Gigabit E Managed Ring Network Switch

(ONV-H5064FM-4DC)

OVERVIEW

The ONV-H5064FM-4DC is a Gigabit L2 managed ring network switch independently developed by ONV. It has 4*10/100/1000Base-T adaptive RJ45 ports and 2*1.25Gbps SC ports (default single-mode single fiber A and B terminal), integrated 4 channel DC12V output. The maximum load power of a 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 support WEB management, and support ONV-NMS management platform and cloud APP management at the same time. Multiple ring network protocols STP/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-H5064FM-4DC 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. It is suitable for hotels, campuses, parks, supermarkets, scenic spots, factory dormitories, and SMB small and medium-sized enterprises to form cost-effective networks.

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.

■ **Remote power control, streamlined connection**

◇ Provide 4 channel DC12V output, the maximum power of each channel is 12W. It can remotely control the on/off of a single power supply, meeting the power requirements of most cameras and fiber optic terminals.

◇ Support 4*10/100/1000M RJ45 connection and 2*1.25Gbps SC optical fiber connection, 4* channel DC12V power connection. It can support cloud platform network management and control and APP mobile operation and maintenance, effectively reducing the connection of power adapters, which is streamlined and practical.

■ **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, port control and bandwidth management.

◇ According to the application requirements, the complex network management

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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, P, Link.
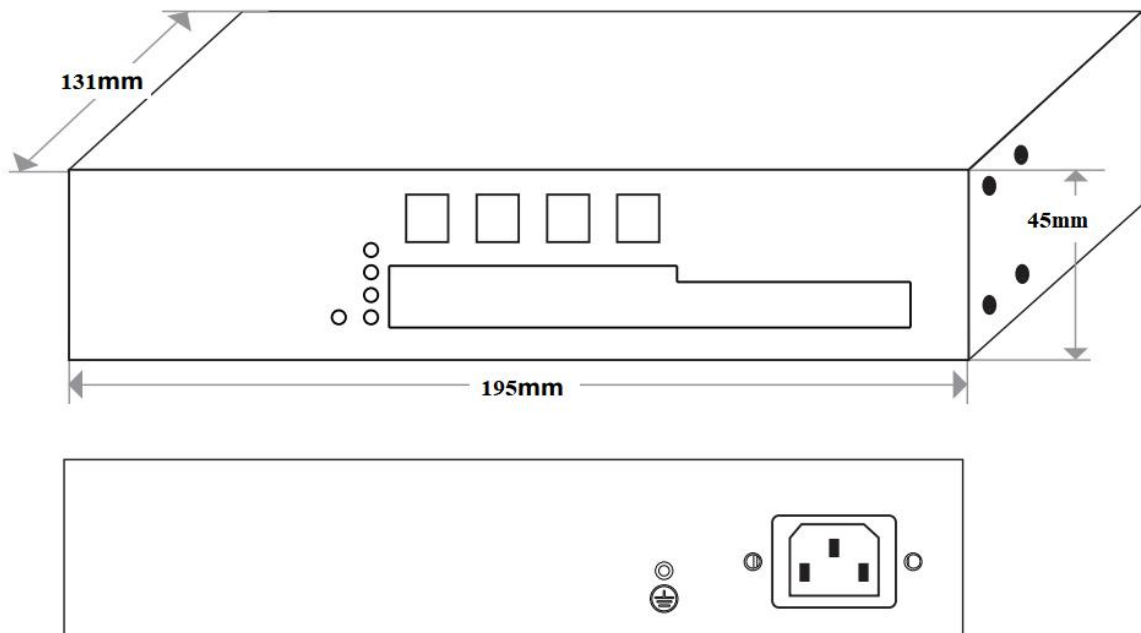
TECHNICAL SPECIFICATION

Model	ONV-H5064FM-4DC
Interface Characteristics	
Fixed Port	4*10/100/1000Base-T RJ45 ports(Data) 4*DC12V power ports (Single channel maximum 12V/1A) 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.
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	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), 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 output, Single channel maximum 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 /	-20~+55°C, 5%~90% RH Non condensing

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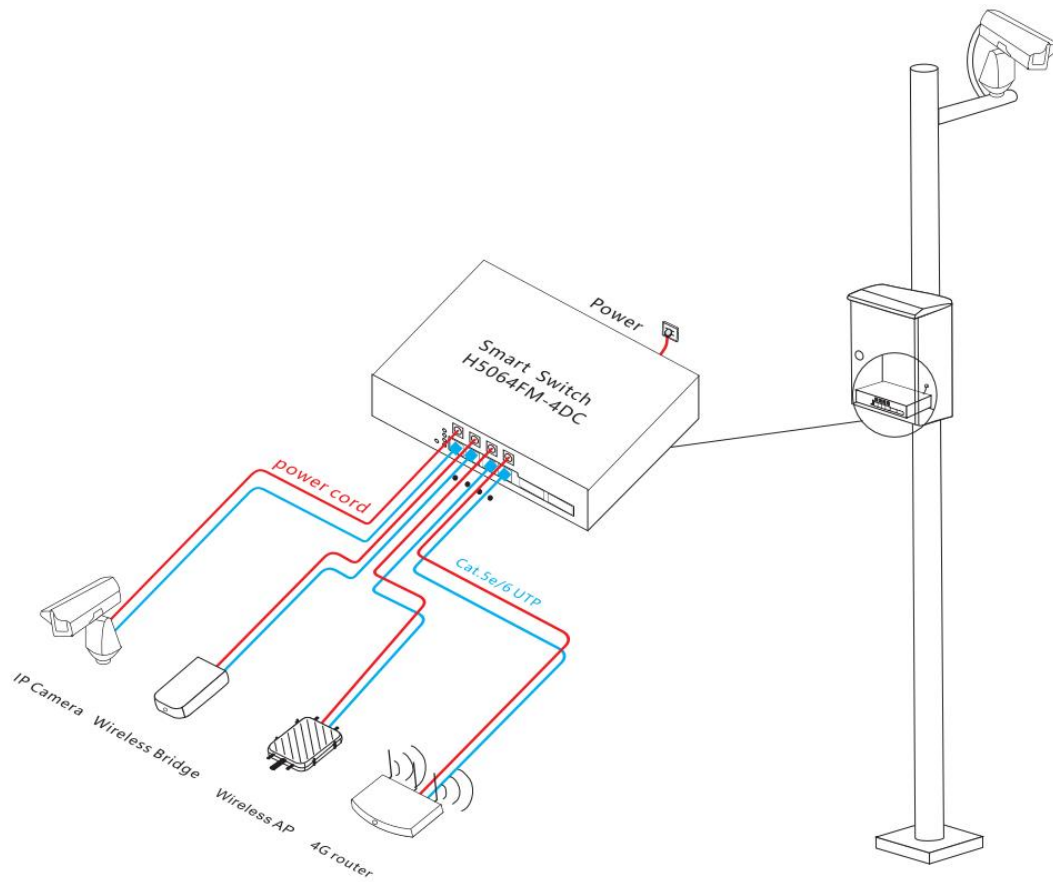
Humidity	
Storage TEMP / Humidity	-40~+80°C, 5%~95% RH Non condensing
Dimension (L*W*H)	195*131*45mm
Net /Gross Weight	<1.5kg / <2.0kg
Installation	Desktop, Wall-mounted
Certification & Warranty	
Lightning Protection	Lightning protection: 4KV 8/20us, Protection level: IP30
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B, RoHS
Warranty	1 year, lifelong maintenance.
Network Management Features	
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 ONV-NMS platform management (Local platform/Cloud platform) One-key recovery, Cable Diagnose, Web Management (HTTPS)

System	Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or higher, Category 5 and above Ethernet cables 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

DIMENSION

APPLICATION

ORDERING INFORMATION

Model	Description	Power Supply (Default)
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 channel DC12V output. Built-in power supply, support desktop, wall-mounted.	12V/65W

PACKING LIST

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

RELATED PRODUCT

Model	Description
ONV-H5064PFM	E managed ring Network PoE switch with 4*10/100/1000M RJ45 ports and 2*1000M SC ports (default single-mode single fiber A and B terminal). Port1 to 4 support IEEE 802.3af/at PoE standard.Built-in power supply, support desktop, wall-mounted.

CONTACT US

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