Product Datasheet

10-port Gigabit Easy Managed Ethernet Switch
(ONV-H5108FM)

OVERVIEW

The ONV-H5108FM is a Gigabit Easy managed Ethernet fiber switch independently developed by ONV. It has 8*10/100/1000Base-T adaptive RJ45 ports and 2*1000Base-X uplink SFP fiber ports. Each port supports wire-speed forwarding.

The ONV-H5108FM supports Web management, ONV-NMS cloud management platform, and cloud APP management. Supports the ring network protocol RSTP (<50ms) to enhance link redundancy and network reliability, reduce the number of fiber splicing operations and network nodes, and improve construction efficiency. When a unidirectional network fails, communication can be quickly restored to ensure uninterrupted communication of important transmissions. It can manage security network topology, VLAN settings, port management, remote operation and maintenance, and other functions. It has high reliability, easy installation and maintenance, fast switching function, and multiple access ports, suitable for access to LAN devices of various sizes. It can meet the application environment of multi-channel video surveillance and wireless coverage networks. It is suitable for hotels, campuses, parks, supermarkets, scenic spots, factory dormitories, and small and medium-sized enterprises to form economical and efficient networks.

FEATURE

■ **Gigabit access, uplink SFP fiber port**

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

■ **Minimalist application**

◇ Support real-time fault alarm and fault location.

◇ Support remote upgrade, remote restart, and restore factory settings.

◇ Cloud platform and mobile APP operation and maintenance management, visual port control, network topology management, VLAN division.

◇ Web network management functions include QoS, link aggregation, ring network management, port mirroring, port control, and bandwidth management.

◇ Based on the needs of industry applications, the complex network management configuration is abandoned, and practical network management functions are retained. 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, Link, and L/A.

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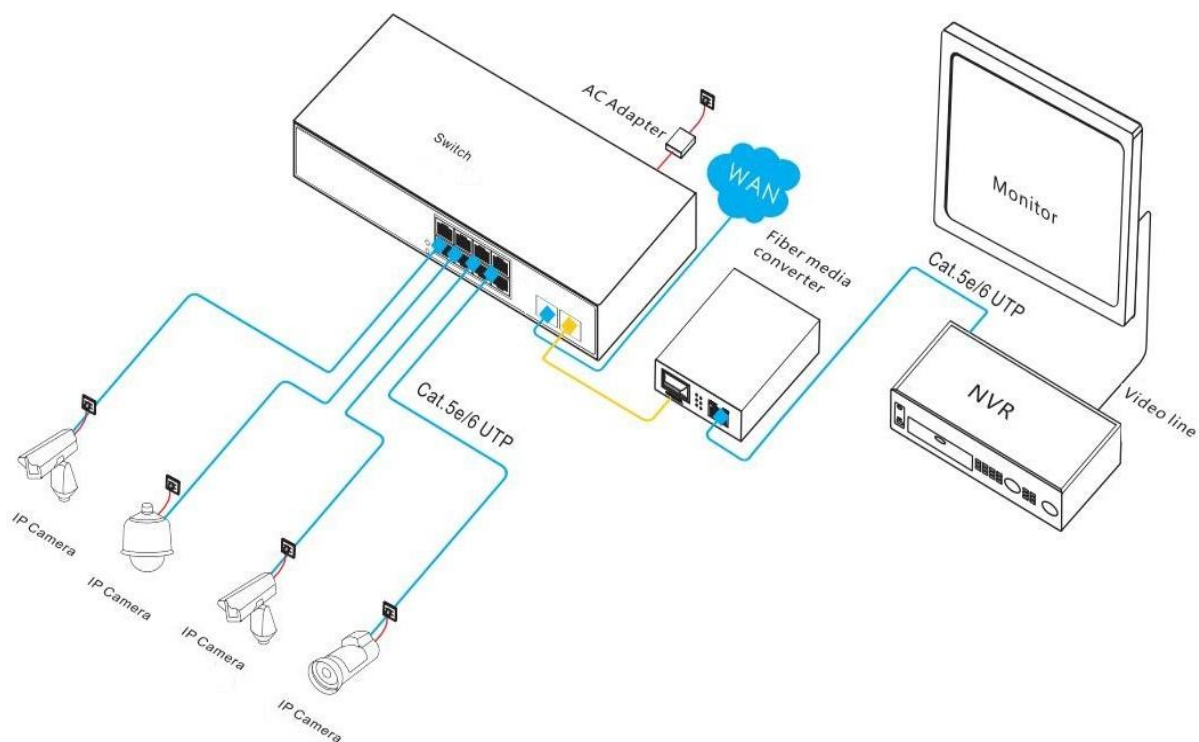
TECHNICAL SPECIFICATION

Model	ONV-H5108FM
Interface Characteristics	
Fixed Port	8*10/100/1000Base-T RJ45 ports (Data) 2*100/1000Base-X uplink SFP fiber ports (Data)

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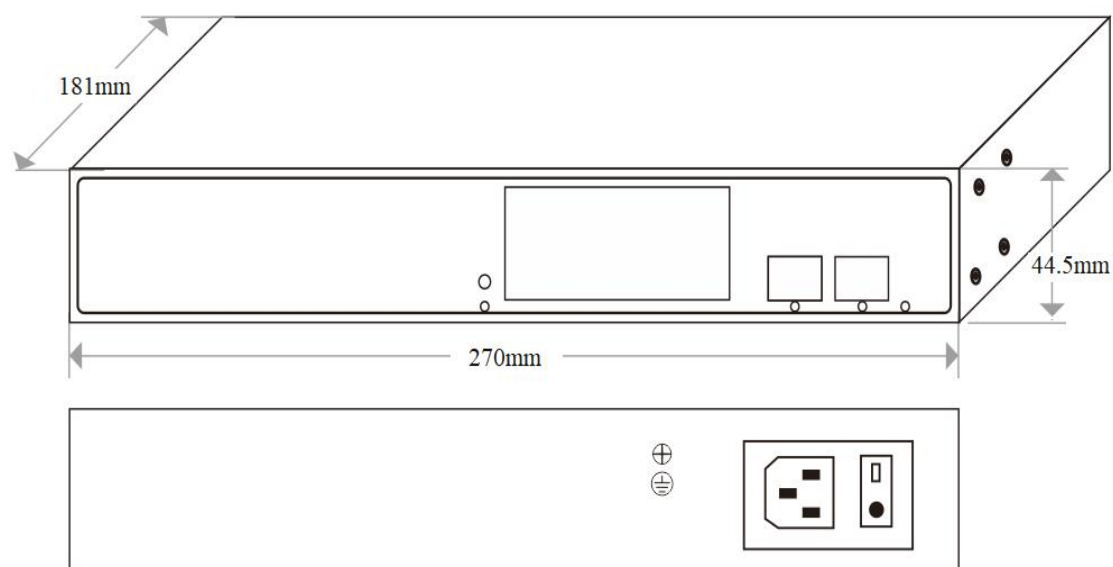| Ethernet Port	Port 1-8 can support 10/100/1000Base-T(X) auto-sensing, full/ half duplex MDI/ MDI-X self-adaption
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP (≤100 meters) 100BASE-TX: Cat5 or later UTP (≤100 meters) 1000BASE-T: Cat5e or later UTP (≤100 meters)
Optical Fiber Port	Default no include 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.
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	20Gbps (non-blocking)
Forwarding Rate@64byte	14.88Mpps
MAC	4K
Buffer Memory	2M
Jumbo Frame	9.2K
LED Indicator	Power: PWR (Green), System: SYS (Green), Network: Link (Yellow), Fiber port: L/A (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	
Total PWR/ Input Voltage	20W/ (AC100-240V)
Power Consumption	Standby<5W, Full load<10W
Power Supply	Built-in power supply, AC 100~240V 50-60Hz, 0.56A
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)	270*181*44.5mm
Net /Gross Weight	1.05kg/ 1.55kg
Installation	Desktop, wall mount, 1U/19" cabinet
Certification& Warranty	
Lightning Protection	Lightning protection: 4KV 8/20us, Protection level: IP30
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 , RoHS
Warranty	1 year, lifelong maintenance.
Network Management Feature	
Interface	IEEE802.3x flow control configuration (Full-duplex) Port traffic statistics, Port duplex/negotiation rate configuration Port status display, EEE Energy-saving and green Ethernet function
VLAN	Port-based IEEE802.1Q VLAN configuration (4K)
Port Aggregation	Static aggregation
Loop Protection	Loop protection function
Multicast	IGMP Snooping v1/v2, Max 256 multicast groups
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	One-key recovery, Cable status check Mobile APP operation and maintenance management Web management, ONV-NMS platform management
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

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5	network Cat5 and above Ethernet cable

APPLICATION

DIMENSION

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ORDERING INFORMATION

Model	Description	Built-in Power Supply
ONV-H5108FM	Easy managed Ethernet fiber switch with 8*10/100/1000M RJ45 ports and 2*100/1000M uplink SFP fiber ports. It built-in power supply and 1U/19" cabinet mount.	20W

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

PACKING LIST

	Content	Qty	Unit
Packing List	10-port Gigabit Easy managed Ethernet switch	1	Set
	AC Power Cable	1	PC
	Mounting Kit (Mounting Ears)	1	Pair
	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. support DDM function and hot plugging.	PC
	2632	SFP optical module, 1.25G single-mode dual fiber 1310nm, transmission distance: 20km, LC interface. support DDM function and hot plugging.	PC
	2612-T	SFP optical module, 1.25G single-mode single fiber TX1310nm/ RX1550nm, transmission distance: 20km, LC interface. support	PC

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

CONTACT US

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