### **Product Datasheet**

# 26-port Gigabit Managed Ethernet Switch

(ONV-H3026FM)



#### **OVERVIEW**

The ONV-H3026FM is a gigabit managed Ethernet fiber switch independently developed by ONV. It has 24\*10/100/1000Base-T adaptive RJ45 ports and 2\*100/1000Base-X uplink SFP fiber ports. Each port can support wire-speed forwarding.

The ONV-H3026FM has L2+ network management functions. It can support IPV4 management and static routing forwarding, complete security protection mechanisms, complete ACL/ QoS policies, and rich VLAN functions, making it easy to manage and maintain. Supports multiple network redundancy protocols RSTP (<50ms) to improve link backup and network reliability. When a one-way network fails, communication can be quickly restored to ensure uninterrupted communication of important transmissions. According to application needs, port flow control, VLAN division, QoS, and other application service configurations can be performed through network management methods such as Web, CLI, SNMP, and Telnet. It satisfies high-density network application environment and is suitable for medium, large-scale scenes such as hotel, campus, park, shopping mall, scenic spot, hospital, bank to form an economical, efficient and reliable communication network.

### **FEATURE**

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

- Support non-blocking wire-speed forwarding.
- ♦ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.
- Support Gigabit RJ45 port and Gigabit SFP port combination, which enables users to flexibly build networking to meet the needs of various scenarios.

#### Strong business processing capability

- ♦ Support IEEE 802.1Q VLAN.
- ♦ Ring network RSTP spanning tree protocol eliminates layer 2 loops and realizes link backup.
- Support IGMP Snooping V1/V2 to meet the needs of multi-terminal high-definition video surveillance and video conferencing access.
- Support QoS, three priority modes based on port, 802.1P-based and DSCP-based, and four queue scheduling algorithms: SP, WRR, and WFQ.
- Static aggregation and dynamic aggregation effectively increase link bandwidth, achieve load balancing, and link backup, and improve link reliability.
- Support ACL to filter data packets by configuring matching rules, processing operations, and time permissions to provide flexible security access control strategies.

#### Security

- ♦ Port isolation and storm control.
- ♦ 802.1X authentication provides authentication functions for LAN computers and controls the authorization status of controlled ports according to the authentication results.

#### 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.
- Self-developed power supply, high redundancy design, providing a long-term and stable power output.

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

#### ■ Easy O&M management

- ◇ CPU monitoring, memory monitoring, and Ping detection.
- ♦ System logs and port traffic statistics facilitate network optimization and transformation.
- ♦ LLDP facilitates the network management system to query and determine the communication status of the link.
- Web network management, CLI (Console, Telnet), SNMP (V1/V2/V3), Telnet, and other diversified management and maintenance methods.

### **TECHNICAL SPECIFICATION**

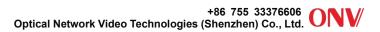
Model	ONV-H3026FM	
Interface Characteristics		
	1*RS232 console port(115200,N,8,1)	
Fixed Port	24*10/100/1000Base-T RJ45 ports (Data)	
	2*100/1000Base-X uplink SFP fiber ports (Data)	
Ethernet Port	Port 1-24 can support 10/100/1000Base-T(X) auto-sensing, full/ half duplex	
Ethernet Port	MDI/ MDI-X self-adaption	
T : / ID :	10BASE-T: Cat3,4,5 UTP (≤100 meters)	
Twisted Pair Transmission	100BASE-TX: Cat5 or later UTP (≤100 meters)	
Hansinission	1000BASE-T: Cat5e or later UTP (≤100 meters)	
Optical Fiber Port	Gigabit optical fiber interface, default no include optical module (optional	
Optical Fibel Fort	single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)	
Optical Cable/	Multi-mode: 850nm /0-550m, Single-mode: 1310nm /0-40km, 1550nm	
Distance	/0-120km.	
Chip Parameter		
Network Management	L2+	
Туре	LZT	

Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX,		
Network Frotocor	IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X, IEEE 802.3x		
Forwarding Mode	Store and Forward (Full Wire Speed)		
Switching Capacity	52Gbps (non-blocking)		
Forwarding Rate	20 COMpno		
@64byte	38.69Mpps		
CPU	500M		
DRAM	1GB		
FLASH	256M		
MAC	8K		
Buffer Memory	4.1M		
	Power: PWR (Yellow), System: SYS(Yellow), Network: Link/Act (Yellow), Fiber		
LED Indicator	port: L/A(Green)		
Reset Switch	Yes, One-button factory reset		
Power Supply			
Total PWR / Input	20\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
Voltage	20W/ (AC100-240V)		
Power Consumption	Standby<15W, Full load<20W		
Power Supply	Built-in power supply, AC100~240V 50-60Hz, 1.0A		
Physical Parameter			
Operation TEMP/	-20~+55°C, 5%~90% RH Non condensing		
Humidity	-20~+35 C, 5%~90% KH Nort condensing		
Storage TEMP/	-40~+75°C, 5%~95% RH Non condensing		
Humidity	-40°+73 C, 370°-9370 INT Noti condensing		
Dimension (L*W*H)	440*225*44mm		
Net /Gross Weight	2.1kg/ 2.8kg		
Installation	Desktop, 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 Class B, RoHS		
Warranty	3 years, lifelong maintenance.		
Network Management Feature			
	IEEE802.3x flow control (Full duplex)		
	Broadcast storm suppression based on port rate		
Interface	Port real-time traffic management (Flow Interval)		
	Limit the rate of packet traffic on incoming and outgoing ports, mini granularity		
	is 16Kbps and max is 1Gbps		
L3 Feature	IPV4 static route/ default route		
VLAN	Port-based VLAN (4K), VLAN based on the protocol		
VLAIN	IEEE802.1q, Port configuration of Access, Trunk, Hybrid		
Port Aggregation	LACP dynamic aggregation, Static aggregation		
1 oft Aggregation	Max 13 aggregation groups and 8 ports per group		
Spanning Tree	RSTP (IEEE 802.1w)		
ERPS	ERPSv2		
Multicast	Multicast VLAN, User quick exit mechanism, IGMP Snooping v1/v2		
Port Mirroring	Bidirectional data mirroring based on port		
	802.1p/ DSCP priority mapping, Diff-Serv QoS		
QoS	Queue scheduling algorithm (SP, WRR, WFQ)		
Que	Flow-based rate limiting, Flow-based packet filtering		
	Flow-based based redirection, 8*Output queues of each port		
	Port-based and VLAN-delivered ACL		
	The L2-L4 packet filtering function can match the first 80 bytes of the packet		
ACL	and provide information based on source MAC address, destination MAC		
	address, source IP address, destination IP address, IP protocol type, TCP/UDP		
	port, TCP/UDP port range to define the ACL.		
	Port isolation, Port broadcast message suppression		
Security	Port-based and Mac-based IEEE802.1X certification		
	User hierarchical management and password protection		

	AAA&RADIUS certification, IP source address protection			
DHCP	DHCP Client, DHCP Snooping			
	Web network management (https), Ping detection			
	ONV-NMS platform cluster management (LLDP+SNMP)			
Management	One click recovery, View CPU real-time utilization status			
Wanagement	Link Layer Discovery Protocol (LLDP), System work log			
	Console/ Telnet and CLI configuration, SNMP V1/V2/V3			
	NTP clock, HTTP file upload and download management			
	Web browser: Mozilla Firefox 2.5 or higher, Google Chrome V42 or higher,			
	Cat5 and above Ethernet cable			
System	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-H3026FM	L2+ managed Ethernet switch with 24*10/100/1000M RJ45 ports and 2*100/1000M uplink SFP fiber ports. It built-in power supply and 1U/19" cabinet installation.	20W	
Note: The optical module is not included and needs to be purchased.			

# **PACKING LIST**

	Content	Qty	Unit
Packing List	26-port gigabit managed Ethernet switch	1	SET
	AC Power Cable	1	PC
	RJ45-DB9 Adapter Cable	1	PC
	Mounting Kit (Hanging Ear)	1	SET
	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
	2612-T-SC	SFP optical module, 1.25G single-mode single fiber TX1310nm/RX1550nm, transmission distance: 20km, SC interface. supports DDM function and hot plugging.	PC
	2613-R-SC	SFP optical module, 1.25G single-mode single fiber TX1550nm/	PC

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		RX1310nm, transmission distance: 20km, SC interface. supports DDM function and hot plugging.	
Power Module	2633	1.25G SFP optical module transfers to 10/100/1000M RJ45 port.	PC

### **CONTACT US**

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