

Product Datasheet

26-port Full Gigabit Managed Ethernet Switch

(ONV33026FM)



OVERVIEW

The ONV33026FM is a full gigabit L2+ managed Ethernet fiber switch independently developed by ONV. It has 24*10/100/1000Base-T RJ45 ports and 4*100/1000Base-X SFP fiber ports (combo port). Each port can support wire-speed forwarding.

The ONV33026FM has the L2+ full network management, support IPV4/IPV6 management, software static route full line rate forwarding, security protection mechanism, complete ACL/QoS policy and rich VLAN functions, and is easy to manage and maintain. Supports multiple network redundancy protocols STP/RSTP/MSTP (<50ms) and (ITU-T G.8032) ERPS to improve link backup and network reliability. When one-way network fails, communication can be quickly restored to ensure important Uninterrupted communication for applications. According to the actual application requirements, you can configure multiple application services such as PoE power management, port traffic control, VLAN division, and SNMP through the Web network

management mode. It is suitable for hotels, campuses, parks, supermarkets, scenic spots, factory dormitories, and SMB small and medium-sized enterprises to form a cost-effective network.

FEATURE

■ Gigabit access, Gigabit combo port uplink

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

■ Security

- ◇ 802.1X authentication.
- ◇ Port isolation, Storm control.
- ◇ IP-MAC-VLAN-Port binding.

■ Strong business processing capability

- ◇ ERPS/STP/RSTP/MSTP.
- ◇ Static and dynamic aggregation.
- ◇ IGMP V1/V2 and IGMP Snooping.
- ◇ IEEE802.1Q VLAN, flexible VLAN division, Voice VLAN and QinQ configuration.
- ◇ QoS, Priority mode based on 802.1P, Port & DSCP, queue scheduling algorithm including Equ, SP, WRR & SP+WRR.
- ◇ ALC, filter data packet through configuring matching rules, processing operation & time permission, and provide flexible and safe access control.

■ Stable and reliable

- ◇ CCC, CE, FCC, RoHS.
- ◇ Low power consumption, galvanized steel casing, No fan.

- ◇ Self-developed power supply, high redundancy design, providing a long term and stable power output.
- ◇ The user-friendly panel can show the device status through the LED indicator of PWR, Link.

■ Easy operation and maintenance management

- ◇ HTTPS, SSLV3, and SSHV1/V2.
- ◇ RMON, system log, LLDP, and port traffic statistics.
- ◇ CPU monitoring, memory monitoring, Ping test, and cable diagnose.
- ◇ Web management, CLI command line (Console, Telnet), SNMP (V1/V2/V3).

TECHNICAL SPECIFICATION

Model	ONV33026FM
Interface Characteristics	
Fixed Port	24*10/100/1000Base-T RJ45 ports (Data) 4*100/1000Base-X uplink SFP ports (include 2* set combo ports)(Data) 1*RS232 console port(115200,N,8,1)
Ethernet Port	Port 1-24 support 10/100/1000Base-T auto-sensing, full/half duplex MDI/MDI-X self-adaption
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-TX: Cat5 or later UTP(≤100 meter) 1000BASE-T: Cat5e or later UTP(≤100 meter)
SFP Slot Port	Gigabit SFP optical fiber interface, default matching optical modules (optional order 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	

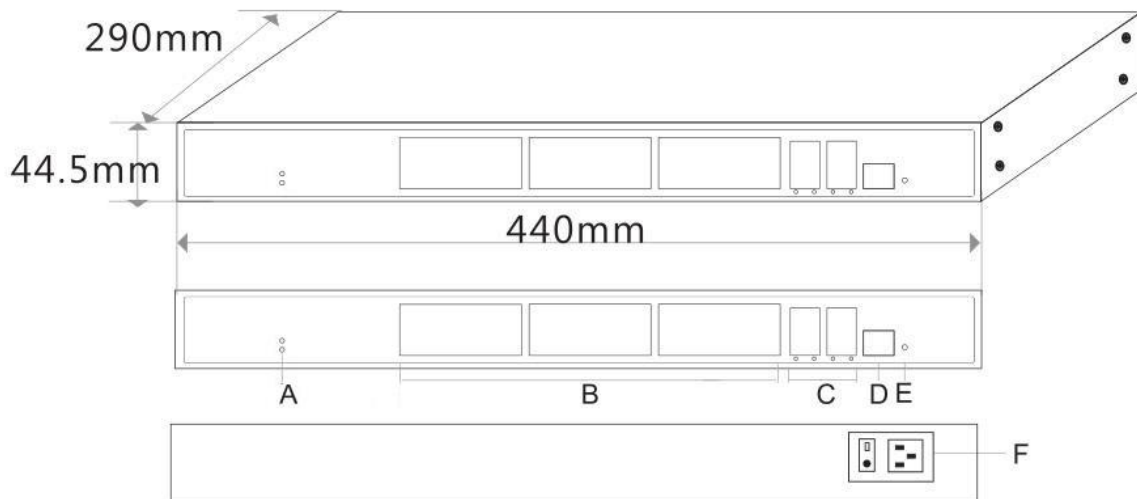
Network Management Type	L2+
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x
Forwarding Mode	Store and Forward(Full Wire Speed)
Switching Capacity	256Gbps
Forwarding Rate@64byte	38.69Mpps
MAC	8K
Buffer Memory	8M
Jumbo Frame	9.6K
CPU(Hz)	416M
DRAM	1G
Flash	128M
LED Indicator	Power: PWR (Yellow), System :SYS (Yellow), Network:Link (Yellow), Fiber port: L/A (Green)
Reset Switch	Yes, One-button factory reset
Power Supply	
Total PWR / Input Voltage	60W (AC100-240V)
Power Consumption	Standby<18W, Full load<30W
Power Supply	Built-in power supply, AC 100~240V 50-60Hz 0.56A
Physical Parameter	
Operation TEMP / Humidity	-20~+55°C, 5%~90% RH Non condensing
Storage TEMP / Humidity	-40~+75°C, 5%~95% RH Non condensing
Dimension (L*W*H)	440*290*44.5mm

Net /Gross Weight	<3.0kg / <3.8kg
Installation	Desktop, Wall-mounted, 19 inches 1U cabinet
Certification & Warranty	
Lightning Protection / Protection Level	Lightning protection: 4KV 8/20us, Protection level: IP30
Certification	CCC, CE mark, commercial, CE/LVD EN60950, FCC Part 15 Class B RoHS
Warranty	3 years, lifelong maintenance.
Network Management Features	
Interface	IEEE802.3X (Full-duplex) Broadcast storm control based on port speed The speed limit of the message flow in the access port. The minimum particle size is 64Kbps. Port temperature protection setting Port green Ethernet Energy-saving setting
Layer 3 Features	L2+ Network management , IPV4/IPV6 management L3 software routing forwarding, Static route, Default route @ 128 pcs, APR @ 1024 pcs
VLAN	VLAN based on MAC, QinQ configuration Port configuration of Access, Trunk, Hybrid 4K VLAN based on port, IEEE802.1q, VLAN based on the protocol
Port Aggregation	LACP, Static aggregation Max 13 aggregation groups and 8 ports per group.
Spanning Tree	STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)
Industrial Ring	G.8032 (ERPS), Recovery time less than 20ms
Network Protocol	255 Ring at most, Max 1024 devices per ring.
Multicast	IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out MLD Snooping v1/v2, Multicast VLAN

Port Mirroring	Bidirectional data mirroring based on port
QoS	<p>Diff-Serv QoS, Priority Mark/Remark</p> <p>8*Output queues of each port</p> <p>802.1p/DSCP priority mapping</p> <p>Queue Scheduling Algorithm (SP, WRR, SP+WRR)</p> <p>Flow-based Packet Filtering</p> <p>Flow-based Redirection</p> <p>Flow-based Rate Limiting</p>
ACL	<p>L2 to L4 packet filtering, matching first 80 bytes message. Provide ACL based on MAC, Destination MAC address, IP Source, Destination IP, IP Protocol Type, TCP/UDP Port, TCP/UDP Port Range, and VLAN, etc.</p> <p>Port-based Issuing ACL.</p> <p>ACL based on port and VLAN</p>
Security	<p>User hierarchical management and password protection</p> <p>SSH 2.0, SSL, Port isolation, ARP message speed limit</p> <p>Broadcast storm control, Backup for host datum</p> <p>IEEE802.1X & MAC address authentication</p> <p>Mac black holes, IP source protection</p> <p>AAA & RADIUS, MAC learning limit</p> <p>ARP inspection, Anti-DoS attack</p> <p>IP-MAC-VLAN-Port binding</p>
DHCP	DHCP Client, DHCP Snooping, DHCP Server, DHCP Relay
Management	<p>Console/AUX Modem/Telnet/SSH2.0 CLI</p> <p>Web Management (HTTPS)</p> <p>Download & Management on FTP, TFTP, Xmodem, SFTP, SNMP</p> <p>V1/V2C/V3</p> <p>One-key recovery</p> <p>NTP, System work log, Ping Test</p> <p>Cable Diagnose, LLDP</p>

	<p>CPU instant utilization status view</p> <p>ONV NMS - Smart Network Management System Platform (LLDP+SNMP)</p>
System	<p>Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or higher, Microsoft Internet Explorer10 or later;</p> <p>Category 5 Ethernet network cable</p> <p>TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on each computer in a network</p>

DIMENSION



A. Working indicator

B. 24* 10/100/1000M RJ45 ports

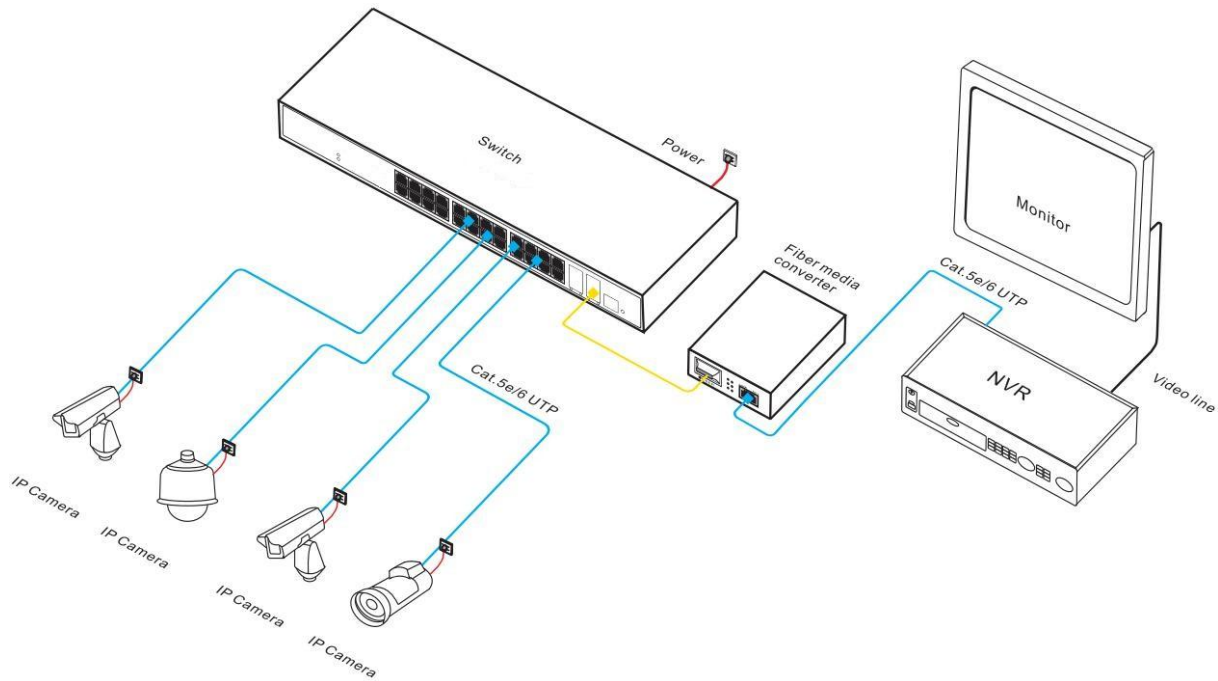
C. 4*10/100/1000M SFP ports (Combo port)

D. Console port

E. Reset switch

F. Power input port AC100-240V,50/60Hz

APPLICATION



ORDERING INFORMATION

Model	Description
ONV33026FM	L2+ managed Ethernet fiber switch with 24* 10/100/1000M RJ45 ports and 4*100/1000M SFP fiber slot ports (2 set combo ports). Built-in 60W power supply. Support 1U/19 inches rack installation.

Note: The SFP optical module is not included by default and needs to be purchased separately.

PACKING LIST

PACKING LIST	CONTENT	QTY	UNIT
	26-port full gigabit managed Ethernet switch	1	SET
	RJ45-DB9 Line	1	PC
	AC Power Cable	1	PC
	Mounting Kits(Hanging Ear)	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

OPTICAL MODULE INFORMATION

Product	Model	Description	Unit
1.25G Optical Module	ONV-2630	SFP optical module, 1.25G, multi mode dual fiber 850nm, transmission distance: 550m, LC interface, support DDM, hot plug and pull.	PC
	ONV-2632	SFP optical module, 1.25G, single-mode dual fiber 1310nm, transmission distance: 20km, LC interface, support DDM, hot plug and pull.	PC
	ONV-2612-T	SFP optical module, 1.25G, single-mode single fiber TX1310nm/RX1550nm, transmission distance: 20km, LC interface, support DDM, hot plug and pull.	PC
	ONV-2613-R	SFP optical module, 1.25G, single-mode single fiber TX1550nm/RX1310nm, transmission distance: 20km, LC interface, support DDM, hot plug and pull.	PC
	ONV-2612-T-SC	SFP optical module, 1.25G, single-mode single fiber TX1310nm/RX1550nm, transmission distance:	PC

		20km, SC interface, support DDM, hot plug and pull.	
	ONV-2613-R-SC	SFP optical module, 1.25G, single-mode single fiber TX1550nm/RX1310nm, transmission distance: 20km, SC interface, support DDM, hot plug and pull.	PC
Power Module	ONV-2633	1.25G SFP optical module transfers to 10/100/1000M RJ45 port.	PC

CONTACT US



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

Tel: 0086-755-33376606

Fax: 0086-755-33376608

Email: onv@onv.com.cn

Website: www.onvcom.com

Zip: 518000

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

Factory Address: The 4-6th Floor, No. 59, Huaning Road, Xinwei Community, Dalang Street, Longhua District, Shenzhen, China

