Product Datasheet

52-port Gigabit Managed Ethernet Switch (ONV33052FM)



OVERVIEW

The ONV33052FM is a gigabit managed Ethernet fiber switch independently developed by ONV. It has 4*100/1000Base-X SFP fiber ports and 48*10/100/1000Base-T adaptive RJ45 ports. Each port can support wire-speed forwarding.

The ONV33052FM 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 a high-density network application environment and is suitable for medium, large-scale scenes such as hotels, campuses, parks, shopping malls, scenic spots, hospitals, and banks 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

- \diamond Port isolation and storm control.
- S02.1X authentication provides authentication functions for LAN computers and controls the authorization status of controlled ports according to the authentication results.

Stable and reliable

- \diamond CCC, CE, FCC, RoHS.
- The user-friendly panel can show the device status through the LED indicator of PWR 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

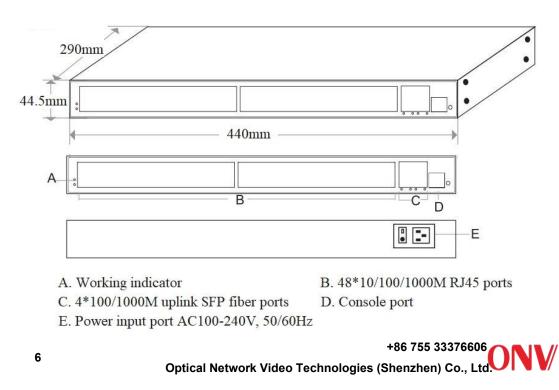
Model	ONV33052FM	
Interface Characteristics		
	1*RS232 console port (115200,N,8,1)	
Fixed Port	48*10/100/1000Base-T RJ45 ports (Data)	
	4*100/1000Base-X uplink SFP fiber ports (Data)	
Ethernet Port	Port 1-48 support 10/100/1000Base-T(X) auto-sensing, full/ half duplex MDI/	
	MDI-X self-adaption	
Twisted 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 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	

Network Management L Type	L2+
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 S	Store and Forward (Full Wire Speed)
Switching Capacity 1	104Gbps (non-blocking)
Forwarding Rate 7 @64byte	77.38Mpps
CPU 7	750MHz
DRAM 1	1G
FLASH 2	256M
MAC 1	16K
Buffer Memory 1	12M
LED Indicator	Power: PWR (Yellow), System: SYS (Yellow), Network: Link/Act (Yellow), Fiber port: L/A(Green)
Reset Switch	Yes, One-button factory reset
Power Supply	
Total PWR / Input Voltage	60W/ (AC100-240V)
Power Consumption S	Standby<25W, Full load<55W
Power Supply E	Built-in power supply, AC100~240V 50-60Hz, 1.0A
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) 4	440*290*44.5mm
Net /Gross Weight	3.6kg/ 4.5kg

Installation	Desktop, 1U/19'' cabinet, 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	3 years, lifelong maintenance.		
Network Management I	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		
	Port-based VLAN (4K), VLAN based on the protocol		
VLAN	IEEE802.1q, Port configuration of Access, Trunk, Hybrid		
Dort Aggregation	LACP dynamic aggregation, Static aggregation		
Port Aggregation	Max 26 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)		
QUS	Flow-based rate limiting, Flow-based packet filtering		
	Flow-based based redirection, 8*Output queues of each port		
	Port-based and VLAN-delivered ACL		
ACL	The L2-L4 packet filtering function can match the first 80 bytes of the packet		
AUL	and provide information based on source MAC address, destination MAC		
	address, source IP address, destination IP address, IP protocol type,		

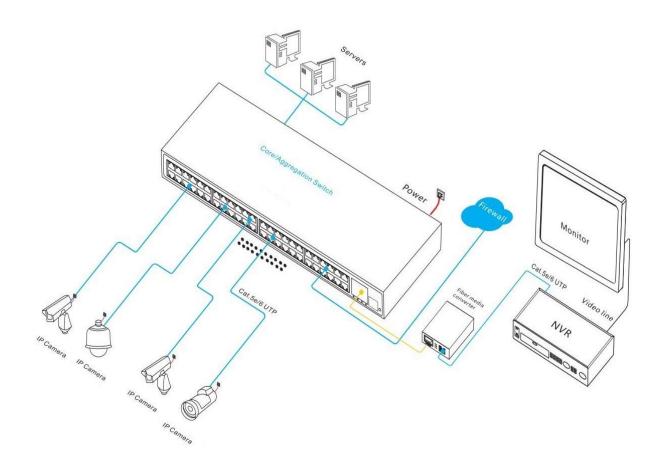
	TCP/UDP port, TCP/UDP port range to define the ACL.	
Co currito :	Port isolation, Port broadcast message suppression	
	Port-based and Mac-based IEEE802.1X certification	
Security	User hierarchical management and password protection	
	AAA&RADIUS certification, IP source address protection	
DHCP	DHCP Client, DHCP Snooping	
	Web network management (https), Ping detection	
	ONV-NMS platform cluster management (LLDP+SNMP)	
Managamant	One click recovery, View CPU real-time utilization status	
Management	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,	
System	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	
ONV33052FM	L2+ managed Ethernet switch with		
	48*10/100/1000M RJ45 ports and 4*100/1000M	60W	
	uplink SFP fiber ports. It built-in power supply and	0000	
	1U/19" cabinet installation.		
Note: The optical module is not included and needs to be purchased.			

PACKING LIST

Packing List	Content	Qty	Unit
	52-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. 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 DDM function and hot plugging.	PC
	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/	PC

Use PoE,	Choose	ONV
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		RX1310nm, transmission distance: 20km, SC interface. support 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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