

OPTICAL NETWORK VIDEO TECHNOLOGIES (SHENZHEN) CO., LTD.

**Product Datasheet** 

# 32-Port 10G Uplink Managed Ethernet Switch

## **ONV36032FM**



### **OVERVIEW**

The ONV36032FM series is a 10G uplink managed Ethernet fiber switch independently developed by ONV. It has 4\*10/100/1000Base-T RJ45 ports and 24\*100/1000Base-X SFP fiber slot ports and 4\*1/10G SFP+ fiber slot ports. Each port can support wire-speed forwarding.

The ONV36032FM has the layer two plus full network management function, supports IPV4/IPV6 management, supports static route full line rate forwarding, supports complete 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 port traffic control, VLAN division, and SNMP through the Web network management mode. 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 multi fiber port access, 10G uplink

- ♦ All series supports "Gigabit Ethernet port and Gigabit SFP fiber port and 10G uplink SFP+ fiber 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.

### Strong business processing capability

- Support IEEE 802.1Q VLAN, users can flexibly divide VLAN according to needs, and support QinQ configuration.
- ♦ Support QoS, support port based, 802.1P based and DSCP based three priority modes and Equ, SP, WRR, SP+WRR four queue scheduling algorithms.
- ACL supports the filtering of data packets by configuring matching rules, processing operations and time permissions, and provides a flexible access control strategy.
- Support IGMP V1/V2 multicast protocol and support IGMP Snooping to meet the multi terminal HD video surveillance and video conference access requirements.
- Support STP/RSTP/MSTP production tree protocol, eliminates two layers of loops, and realizes link backup.
- Support G.8032 industrial fast Ring network ERPS Protocol network convergence time ≤ 20ms
- Support static convergence and dynamic convergence, effectively increases link bandwidth, achieves load balancing, link backup, and improves link reliability.

### ■ Complete safety protection mechanism

- Support 802.1X authentication, provide authentication function for LAN computer, and control the authorized status of controlled port according to the result of authentication.
- ♦ Support port isolation
- ♦ Support port broadcast storm suppression
- ♦ Support port +MAC binding, IP+MAC+ port binding function

#### ■ The equipment is stable and reliable

The host has low power consumption, no fan mute design, aluminum alloy metal shell, excellent heat dissipation, and ensure stable operation of products.



- ♦ The equipment meets the national CCC standard, fully meets the requirements of CE, FCC and RoHS safety regulations, and is safe and reliable.
- ONV-developed power supply, high redundancy design, provides long-term stable PoE power output.
- ♦ The user can easily understand the working status of the device through the power indicator (PWR), system status indicator (SYS) ,and port status indicator (Link,L/A) operation indicator.

#### ■ Easy operation and maintenance management

- Support various management and maintenance methods such as Web management,
   CLI command line (Console, Telnet), SNMP (V1/V2/V3).
- Support encryption methods such as HTTPS, SSLV3, and SSHV1/V2 for more secure management.
- Support RMON, system log, port traffic statistics, easy network optimization and transformation.
- Support LLDP, which is convenient for the network management system to query and judge the communication status of the link.
- ♦ Support CPU monitoring, memory monitoring, ping detection, cable length detection.

### **TECHNICAL SPECIFICATION**

Model	ONV36032FM ONV38032FM		
	4*10/100/1000Base-T RJ45 ports (Data)		
lutanta a	24*10/100/1000Base-X RJ45 ports (Data)		
Interface	4*1/10G uplink SFP+ fiber slot ports (Data)		
	1*Console RS232 port (115200,N,8,1)		
Managed Type	L2+	L3	
	IEEE802.3 10BASE-T; IEEE802.3i 10Base-T;		
	IEEE802.3u 100Base-TX;		
Network Protocol	IEEE802.3ab 1000Base-T		
Network Protocol	IEEE802.3z 1000Base-X		
	IEEE802.3ae 10GBase-SR/LR		
	IEEE802.3x		
Ethernet Port	Port 1-4 can support 10/100/1000Base-T auto detect, full/half duplex		
Feature	MDI/MDI-X adaptive		
Fiber Port Feature	Gigabit SFP /10G SFP+ fiber interface (Fiber module is not included,		



	need to order separately, module options include single/multi mode,		
Forwarding Made	single/dual fiber, LC)		
Forwarding Mode	Store and Forward(Full Wire Speed)		
Switching Capacity	598Gbps (non-blocking)		
Forwarding Rate@64byte	101.18Mpps		
MAC	32K		
Buffer Memory	32M		
Dunci Memory	10BASE-T:Cat3,4,5 UTP(≤100 meter) ;		
Twisted Pair	100BASE-TX: Cat5 or later UTP(≤100 meter)		
Transmission	1000BASE-T:Cat5e or later UTP(≤100 meter)		
	Multi-mode:850nm 0~300M(10G) ,850nm 0~500M (1.25G);		
Optical Fiber Cable	Single-mode:1310nm 0~40KM,1550nm 0~120KM.		
Total PWR / Input			
Voltage	60W (AC100-240V)		
Power			
Consumption	Standby<20W; Full Load<45W		
Consumption			
Power Supply	Built-in power supply, AC 100~240V 50-60Hz 1A		
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	Power indicator:PWR(yellow); system indicator:SYS(yellow); network		
LED Indicator	indicator: Link(yellow); Fiber port indicator L/A(green)		
D (D (	, , ,		
Reset Button	yes, support one key to restore factory settings		
Operation TEMP/Humidity	-20~+55°C;5%~90% RH Non condensing		
Storage TEMP			
/Humidity	-40~+80°C;5%~95% RH Non condensing		
Dimension (L*W*H)	440*225*44mm		
Net /Gross Weight	<3.2kg / <3.8kg		
Installation	Desktop,19 inch 1U cabinet installation		
Lightning protection	Lightning protection :4KV 8/20us;		
/ Protection Level	Protection Level:IP30		
Contification	CCC;CE mark, commercial; CE/LVD EN60950; FCC Part 15 Class B;		
Certification	RoHS;		
Warranty	3 years , lifelong maintenance.		
Managed Series Fea	ature		
	IEEE802.3x flow control (full duplex)		
Interface	Broadcast storm suppression for port rate		
	support speed limit for incoming and offline message traffic, with a		
toriado	minimum particle size of 64Kbps.		
	Temperature protection setting		
	Energy saving configuration of port EEE Ethernet		
Layer3 Function	Support L2+ managed function,   Support L3 managed function		

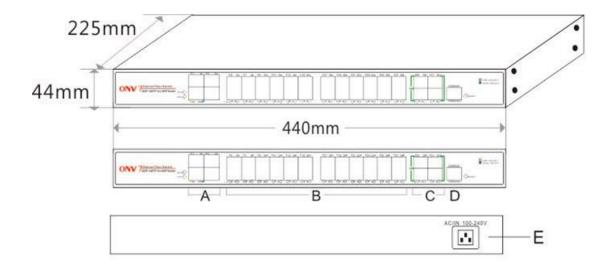




IP protocol type, TCP/UDP port, TCP/UDP port range, VLAN and other definition ACL. Support definition ACL. Support definition ACL. Support act based on port and VLAN  Support IEEE802.1X authentication / centralized MAC address authentication Support AA&RADIUS authentication Support the number of MAC address learning restrictions Support MAC address black hole Support SSH 2.0 to provide secure passwords for user login. Characteristics  Support SSL to ensure data transmission security Support port isolation Support the speed limit function of ARP message Support IP source address protection Support ARP intrusion detection function Support against DoS attacks Support port broadcast message suppression Support host data backup mechanism Binding capabilities of IP+MAC+VLAN+ ports  DHCP  DHCP  Support DHCP Client Support DHCP Serve Suport DHCP Serve Suport DHCP Relay Support WEB network management (HTTPS) Support WEB network management (HTTPS) Support FTP, TFTP, Xmodem, SFTP file download management Support SNMP V1/V2C/V3 Support one bond reduction Support System work log Support Ping detection Support cable state detection Support cable state detection Support CPU instant utilization status view Support ONV NMS intelligent management center  Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or higher, Microsoft Internet Explorer10 or later; Cat5e or later Ethernet cable; TCP/ IP, network adapter and network operating system (Microsoft		ID protocol type TCD/IDD port TCD/IDD port range VI AN and		
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Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome  V42 or higher, Microsoft Internet Explorer10 or later;  Cat5e or later Ethernet cable;  TCP/ IP, network adapter and network operating system (Microsoft		Support link layer discovery protocol LLDP		
System  V42 or higher, Microsoft Internet Explorer10 or later;  Cat5e or later Ethernet cable;  TCP/ IP, network adapter and network operating system (Microsoft		Support ONV NMS intelligent management center		
Requirements  Cat5e or later Ethernet cable; TCP/ IP, network adapter and network operating system (Microsoft		Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome		
TCP/ IP, network adapter and network operating system (Microsoft	System	V42 or higher, Microsoft Internet Explorer10 or later;		
· · · · · · · · · · · · · · · · · · ·	Requirements	Cat5e or later Ethernet cable;		
		TCP/ IP, network adapter and network operating system (Microsoft		
Windows, Linux or Mac OS X) installed on on every computer in the		Windows, Linux or Mac OS X) installed on on every computer in the		
network.		network.		



## **DIMENSION**



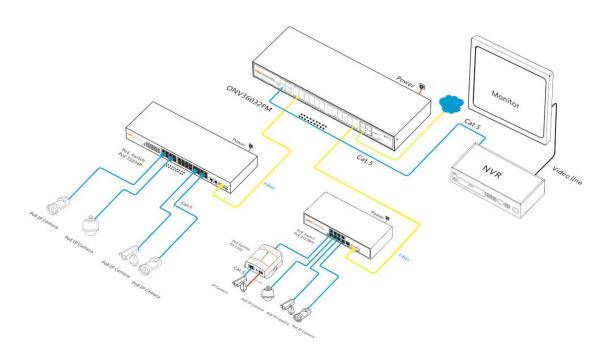
A. 4 \* 10/100/1000M RJ45 Port

B. 24\*100/1000M SFP Ports

C.4\*1/10G SFP+Ports D. Console port

E.Power Input Port AC100-240V,50/60Hz

## **APPLICATION**





## **PACKING LIST**

PACKING LIST	CONTENT	QTY	UNIT
	32-Port 10G uplink managed Ethernet fiber switch (ONV36032FM)	1	SET
	AC Power Cable	1	PC
	RJ45-DB9 Line	1	PC
	Mounting Kits(Hanging Ear )	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

**Note:** Ethernet fiber switch does not match the optical module by default. If you need to purchase it, please refer to the accessory product information.

## **ORDERING INFORMATION**

Model	Description		
	Layer two plus managed Ethernet aggregation/core fiber switch with 4*		
ONIV/26022EM	10/100/1000M RJ45 ports and 24*100/1000M SFP fiber slot ports and		
ONV36032FM	4*1/10G SFP+ fiber slot ports , Built-in 60W power supply. Support 1U/19		
	inch rack installation.		
	Layer three managed Ethernet aggregation/core fiber switch with 4*		
ONIV/20022EM	10/100/1000M RJ45 ports and 24*100/1000M SFP fiber slot ports and		
ONV38032FM	4*1/10G SFP+ fiber slot ports , Built-in 60W power supply. Support 1U/19		
	inch rack installation.		

## **SELECTION OF INFORMATION**

**Fiber Module Selection Table** 

Product	Model	Description	Unit
1.25G Fiber		SFP optical module, 1.25G, multi mode dual fiber	
Module	ONV-2630	850nm, transmission distance: 550m, LC interface, support DDM function, support hot plug and pull.	PC



	ONV-2632	SFP optical module, 1.25G, single-mode dual fiber 1310nm, transmission distance: 20km, LC interface, support DDM function, support 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 function, support 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 function, support hot plug and pull.	PC
	ONV-2612-T-S C	SFP optical module, 1.25G, single-mode single fiber TX1310nm/RX1550nm, transmission distance: 20km, SC interface, support DDM function, support hot plug and pull.	PC
	ONV-2613-R-S C	SFP optical module, 1.25G, single-mode single fiber TX1550nm/RX1310nm, transmission distance: 20km, SC interface, support DDM function, support hot plug and pull.	PC
Electric Module	ONV-2633	1.25G SFP optical module transfers to 10/100/1000M RJ45 net port.	PC
10G Fiber Module	ONV-6630	SFP+ optical module,10G Multi-mode dual fiber 850nm, transmission distance: 300m, LC interface, support DDM function,support hot plug and pull.	PC
	ONV-7832	SFP+ optical module,10G Single-mode dual fiber 1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC
	ONV-7832-33	SFP+ optical module,10G Single-mode single fiber TX1330nm/RX1270nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC
	ONV-7832-27	SFP+ optical module,10G Single-mode single fiber TX1270nm/RX13300nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC



## **CONTACT US**



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