#### **Product Datasheet**

# 6-port Full Gigabit L2+ Managed PoE Fiber Switch

(ONV-POE33064PFM)



### **OVERVIEW**

The ONV-POE33064PFM is a full gigabit L2+ managed PoE fiber switch independently developed by ONV. It has 4\*10/100/1000Base-T adaptive RJ45 ports and 2\*100/1000Base-X SFP fiber ports. Port 1-4 can support IEEE 802.3 af/at PoE standard and single-port PoE power up to 30W. As a PoE power supply device, it can automatically detect and identify power-receiving devices that meet the standard and power them through the network cable. It can power wireless APs, IP cameras, IP phones, building visual access control intercoms, and other PoE terminal devices through network cables, meeting the network environment that requires a high-density PoE power supply and is suitable for hotels, campuses, parks, supermarkets, scenic spots, factory dormitories, and small and medium-sized enterprises to build economical and efficient networks. The ONV-POE33064PFM has L2+ network management functions, supports IPV4/ IPV6 management, software/static routing forwarding, complete security protection mechanism, perfect ACL/ QoS strategy, and rich VLAN functions for easy management and maintenance. Supports multiple network redundancy protocols STP/RSTP/MSTP (<50ms) and (ITU-T G.8032) ERPS (<20ms) to improve link backup and network reliability. When a unidirectional network fails, communication can be quickly restored to ensure uninterrupted communication of important transmissions. According to application needs, PoE power supply management, port flow control, VLAN division, QoS, and other functions can be configured through Web, CLI, SNMP, Telnet, and other network management methods.

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

#### ■ Smart PoE power supply

- PoE network management, realize PoE port power allocation, priority setting, port power status viewing, time scheduling, etc.
- ♦ Comply with IEEE 802.3 af/at PoE standard, automatically identify PoE devices for power supply, and not damage non-PoE devices.
- 4\*10/100/1000Base-T RJ45 ports support PoE power supply to meet security monitoring, conference call systems, wireless coverage, and other scenarios.
- ♦ The PoE port supports the priority mechanism. When the remaining power is insufficient, the power of the high-priority port is given priority to avoid overloading of the device.

#### Strong business processing capability

- ♦ Support ERPS ring network and STP/ RSTP/ MSTP to eliminate layer 2 loops and realize link backup.
- Support IEEE802.1Q VLAN, Users can flexibly divide VLAN, Voice VLAN, and QinQ configuration according to their needs.
- Support static and dynamic aggregation to effectively increase link bandwidth, realize load balancing, link backup, and improve link reliability.
- ♦ Support QoS, port-based, 802.1P-based, and DSCP-based three priority modes and four queue scheduling algorithms: Equ, SP, WRR, and SP+WRR.
- Support ACL to filter data packets by configuring matching rule processing operations and time permissions, and provide flexible security access control policies.
- ♦ Support IGMP V1/V2/V3 multicast protocol, IGMP Snooping meets multi-terminal

high-definition video surveillance and video conference access requirements.

#### Security

- ♦ Port isolation and storm control.
- ♦ IP+MAC+port+VLAN quadruple flexible combination binding function.
- ♦ 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.
- Self-developed power supply, high redundancy, providing a long-term and stable PoE power output.
- ♦ The user-friendly panel can show the device status through the LED indicator of PWR, SYS, Link, and PoE.
- ♦ Low power consumption, with fan, galvanized steel metal shell, and excellent heat dissipation to ensure the stable operation of the switch.

#### ■ Easy O&M management

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

# **TECHNICAL SPECIFICATION**

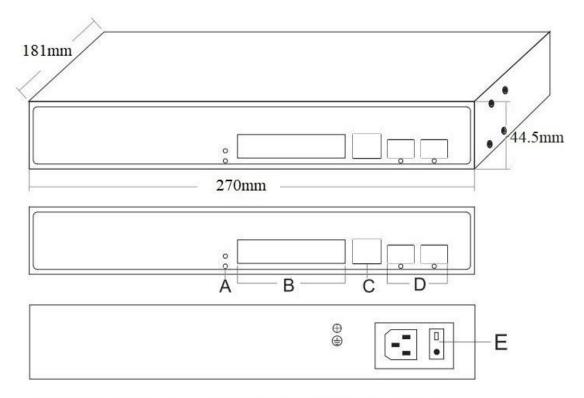
Model	ONV-POE33064PFM	ONV-POE33064PFM-at
Interface Characteristics		
	1*Console RS232 port (115200,N,8,1	)
Fixed Port	4*10/100/1000Base-T PoE ports (Dat	a/Power)
	2*100/1000Base-X uplink SFP fiber p	orts (Data)
Ethernet Port	Port 1-4 can support 10/100/1000Bas	eT auto-sensing, full/ half duplex
Euleriet i oit	MDI/ MDI-X self-adaption	
Twisted Pair	10BASE-T: Cat3,4,5 UTP (≤100 meter	ers)
Transmission	100BASE-TX: Cat5 or later UTP (≤10	0 meters)
Hallstillssion	1000BASE-T: Cat5e or later UTP (≤1	00 meters)
Optical Fiber Port	Gigabit optical fiber interface, default	no include optical module (optional
Optical Fiber Fort	single-mode/ multi-mode, single fiber/	dual fiber optical module. LC)
Optical Cable/	Multi-mode: 850nm /0-550m, Single-r	mode: 1310nm /0-40km, 1550nm
Distance	/0-120km.	
Chip Parameter		
Network	L2+	
Management Type		
Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 1	10Base-T, IEEE 802.3u 100Base-TX,
Network Frotocor	IEEE 802.3ab 1000Base-T, IEEE 802	2.3z 1000Base-X, IEEE 802.3x
Forwarding Mode	Store and Forward (Full Wire Speed)	
Switching Capacity	16Gbps (non-blocking)	
Forwarding	5.95Mpps	
Rate@64byte	3.93NIPps	
CPU	416MHz	
DRAM	1G	
FLASH	128M	
MAC	8K	

Buffer Memory	4M		
Jumbo Frame	10K		
LED Indicator	Power: PWR (Green), Network: Link (Yellow), Fiber port: L/A (Green),		
	PoE: PoE (Green)		
Reset Switch	Yes, One-button factory reset		
PoE & Power Supply			
PoE Port	Port 1-4		
	Port PoE output power allocation, on	/off/af/at	
PoE Management	PoE power supply total power limit co	onfiguration	
FOL Management	PoE work and time scheduling, Power	er supply delay start	
	Port PoE output priority configuration, Port PoE working status display		
Power Supply Pin	1/2(+) 3/6 (-)		
Max Power Per Port	30W, IEEE 802.3 af/at		
Total PWR / Input	65W/ (AC100-240V)	130W /(AC100-240V)	
Voltage	03W/ (AC100-240V)	1301V /(AC 100-240 V)	
Power Consumption	Standby<6W, Full load<60W	Standby<8W, Full load<120W	
Power Supply	Built-in power supply,	Built-in power supply, AC100~240V	
i ower Supply	AC100~240V 50-60Hz, 1.0A	50-60Hz, 2.3A	
Physical Parameter			
Operation TEMP /	-20°C~+55°C, 5%~90% RH Non con	densina	
Humidity	20 0 100 0, 070 0070 14111011 0011	dononing	
Storage TEMP /	-40°C~+75°C, 5%~95% RH Non con	densina	
Humidity	-40 C-175 C, 5%-95% KH Non condensing		
Dimension (L*W*H)	270*181*44.5mm		
Net /Gross Weight	1.2kg /1.8kg	1.3kg /1.9kg	
Installation	Desktop, wall mount, 19 inch 1U 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		
	Port temperature protection setting	
	IEEE 802.3x flow control (Full duplex)	
Interface	Port green Ethernet Energy-saving setting	
interrace	Broadcast storm control based on port speed	
	Limit the speed of the message traffic at the inbound and outbound ports	
	mini granularity is 64Kbps	
	ARP protocol, max 1024 entries	
	Static route /default route max 128 entries	
L3 Feature	L2+ network management function, IPV4/IPV6 management	
	L3 software routing non-wire-speed forwarding, support communication	
	between different network segments and different VLAN	
	Port-based VLAN (4K), IEEE802.1q	
VLAN	Voice VLAN, Protocol-based VLAN	
VLAN	Access, Trunk, Hybrid port configuration	
	MAC address-based VLAN, QinQ configuration	
Port Aggregation	LACP dynamic aggregation, static aggregation	
Fort Aggregation	Max 3 aggregation groups and 8 ports per group	
Spanning Tree	STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)	
ERPS Ring Network	G.8032 (ERPS), recovery time less than 20ms	
Protocol	255 Ring at most, Max 254 devices per ring.	
Multicast	IGMP Snooping v1/v2/v3, Max 1024 multicast groups	
Mullicast	MLD Snooping, Multicast VLAN, User quick exit mechanism	
Port Mirroring	Bidirectional data mirroring based on port	
	Flow-based packet filtering, Priority Mark/ Remark	
QoS	Flow-based redirection, Flow-based rate limiting	
	8*Output queues of each port, 802.1p/ DSCP priority mapping	

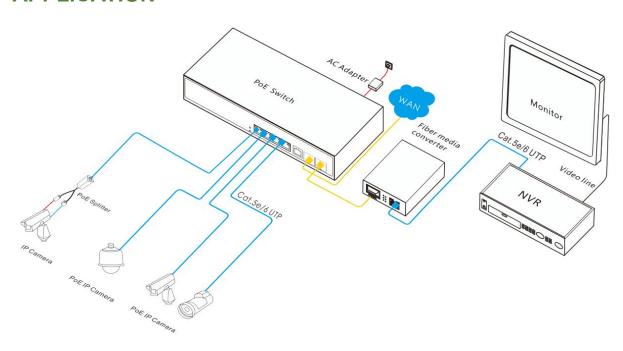
Diff-Serv QoS, Queue Scheduling Algorithm (SP, WRR, SP+WRR)  ACL distribution based on port and VLAN  L2-L4 packet filtering function, matching the first 80 bytes message, and provides ACL definitions based on source MAC address, destination MAC address, source IP address, destination IP address, IP protocol type, TCP/UDP port, TCP/UDP port range, VLAN, etc.  IEEE802.1X & MAC address authentication  IP-MAC-VLAN-Port binding, MAC learning limit  Broadcast storm control, Backup for host datum  Security  Mac black holes, IP source protection, Anti-DoS attack  SSH 2.0, SSL, Port isolation, ARP message speed limit  User hierarchical management and password protection  AAA & RADIUS & TACACS+ certification, ARP inspection  DHCP  DHCP Client, DHCP Snooping, DHCP Server, DHCP Relay  System work log, Link Layer Discovery Protocol  NTP clock, Cable length detection, SNMP V1/V2/V3  Ping detection, Web network management (HTTPS)  Management  ONV-NMS platform cluster management (LLDP+SNMP)  One click recovery, View CPU real-time utilization status  FTP, TFTP, Xmodem, SFTP file upload and download management  Console/ AUX Modem/ Telnet/ SSH2.0 CLI command line configuration  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  network Cat5 and above Ethernet cable		
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network Cat5 and above Ethernet cable		Microsoft Windows, Linux, Mac OS X) installed on each computer in the
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### **DIMENSION**



- A. Working indicator B. 4\*10/100/1000M PoE ports
- C. Console port D. 2\*100/1000M uplink SFP fiber ports
- E. Power input port AC100-240V, 50/60Hz

## **APPLICATION**



## **ORDERING INFORMATION**

Model	Description	Built-in Power Supply
ONV-POE33064PFM	L2+ managed PoE fiber switch with 4*10/100/1000M  RJ45 ports and 2*100/1000M uplink SFP fiber ports.	65W
ONV-POE33064PFM-at Port 1-4 can support IEEE 802.3 af/at PoE standard. It built-in power supply and 1U/19" cabinet installation.		130W
Note: The optical module is not included and needs to be purchased.		

## **PACKING LIST**

	Content	Qty	Unit
	6-port full gigabit managed PoE switch	1	SET
	AC Power Cable	1	PC
Packing List	RJ45-DB9 Line	1	PC
	Mounting Kits (Hanging Ear)	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

## **OPTICAL MODULE**

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

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# **RELATED PRODUCT**

Model	Description	
	L2+ managed PoE fiber switch with 8*10/100/1000M RJ45 ports and and	
ONV-POE33010PFM	2*10/1000M uplink SFP fiber ports. Port 1-8 can support IEEE 802.3 af/at	
	PoE standard. It built-in 130W power supply and 1U/19" cabinet installation.	
	L2+ managed PoE fiber switch with 10*10/100/1000M RJ45 ports and	
ONV-POE33148PFM	4*10/1000M uplink SFP fiber ports. Port 1-8 can support IEEE 802.3 af/at	
	PoE standard. It built-in 130W power supply and 1U/19" cabinet installation.	
	L2+ managed PoE fiber switch with 810/100/1000M RJ45 ports and	
ONV-POE33168PFM	8*100/1000M uplink SFP fiber ports. Port 1-8 can support IEEE 802.3 af/at	
	PoE standard. It built-in 130W power supply and 1U/19" cabinet installation.	
ONV-POE33028PFM	L2+ managed PoE fiber switch with 24*10/100/1000M RJ45 ports and	
	4*100/1000M uplink SFP fiber ports. Port 1-24 can support IEEE 802.3 af/at	





	PoE standard. It built-in 400W power supply and 1U/19" cabinet installation.
	L2+ managed PoE fiber switch with 24*10/100/1000M RJ45 ports and
ONLY DOESCOSCDEM	8*100/1000M SFP fiber ports and 4*1/10G uplink SFP+ fiber ports. Port 1-24
ONV-POE36036PFM	can support IEEE 802.3 af/at PoE standard. It built-in 400W power supply
	and 1U/19" cabinet installation.

### **CONTACT US**



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

Tel: 0086-755-33376606

Fax: 0086-755-33376608

Email:onv@onv.com.cn

Skype: onv@onv.com.cn

WeChat ID: ONV-PoE-IoT

Website: www.onvcom.com

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

Factory Address: Building B3, Galaxy Artificial Intelligence Industrial Park, No. 333, Zhongkai 6th

Road, Chenjiang Street, Zhongkai High-tech Zone, Huizhou

