Product Datasheet

16-port Full Gigabit Managed PoE Switch

ONV-POE33168PFM



OVERVIEW

The ONV-POE33168PFM series is a full gigabit managed PoE fiber switch independently developed by ONV. It has 8*10/100/1000Base-T RJ45 ports and 8*100/1000Base-X SFP fiber slot ports. Port 1-8 can support IEEE802.3af/at standard PoE power supply. single port PoE power reaches 30W, and the maximum PoE output power is 130W (at-250W). As a PoE power supply device, it can automatically detect and recognize the power receiving equipment that meets the standard and supply power through the network cable. It can supply power to POE terminal equipment such as wireless AP, webcam, VoIP phone, building visual access control intercom, etc. through a network cable to meet the network environment that needs high-density PoE power supply. It is suitable for hotels, campuses, parks, shopping malls, scenic spots, hospitals,, factory dormitory and small and medium-sized enterprise.

The ONV-POE33168PFM has L2+ full network management function, supports IPV4/IPV6 management, static route full line rate forwarding, 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 PoE power management, port traffic control, VLAN division, and SNMP through the Web network management mode.

FEATURE

■ Gigabit access, gigabit SFP port uplink

- ♦ All series supports "10/100/1000M RJ45 port + 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.

■ Intelligent PoE power supply

- ♦ 8*10/100/1000Base-T RJ45 ports, meeting the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.
- ♦ IEEE 802.3af/at PoE standard, without damaging non-PoE devices.
- Priority system for PoE port, it will supply power to the high priority level port first when the power budget is insufficient and avoid overwork of the device.
- PoE network management, realize PoE port power allocation, priority setting, port power status viewing, time scheduling, etc.

Strong business processing capability

- ♦ 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.
- ♦ IGMP V1/V2 and IGMP Snooping.
- ♦ ERPS/STP/RSTP/MSTP.
- ♦ Static and dynamic aggregation.

Security

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

■ Stable and reliable

- ♦ Low power consumption, galvanized steel casing, The Fan active cooling.
- Self-developed power supply, high redundancy design, providing a long term and stable PoE power output.
- ♦ CCC,CE, FCC, RoHS.
- The user-friendly panel can show the device status through the LED indicator of PWR, Link ,PoE.

■ Easy operation and maintenance management

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

TECHNICAL SPECIFICATION

Model	ONV-POE33168PFM	ONV-POE33168PFM-at	
Interface Characteristics			
	8*10/100/1000Base-T PoE ports	(Data/Power)	
Fixed Port	8*100/1000Base-X uplink SFP slot ports(Data)		
	1 * RS232 console port(115200,N	I,8,1)	
Ethernet Port	10/100/1000Base-T(X),Auto-sens	ing,Full/half duplex MDI/MDI-X	
Ethernet Fort	self-adaption		
Twisted Pair	10BASE-T: Cat3,4,5 UTP(≤100 m	neter)	
Transmission	100BASE-TX: Cat5 or later UTP(:	≤100 meter)	
Hansinission	1000BASE-T: Cat5e or later UTP	(≤100 meter)	
	Gigabit SFP optical fiber interface	e, default matching optical modules	
SFP Slot Port	(optional order single-mode / multi-mode, single fiber / dual fiber optical		
	module. LC)		
Optical Cable	Multi mode: 850nm 0 ~ 500M,sing	gle mode: 1310nm 0 ~ 40KM, 1550nm	
Option Gasic	0 ~ 120KM.		
Chip Parameter			
Network	L2+		
Management Type	LZT		
	IEEE802.3 10BASE-T, IEEE802.3	Bi 10Base-T	
Network Protocol	IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T		
	IEEE802.3z 1000Base-X, IEEE802.3x		
Forwarding Mode	Forwarding Mode Store and Forward(Full Wire Speed)		
Switching Capacity	Switching Capacity 256Gbps (Non-blocking)		
Forwarding	23.81Mpps		
Rate@64byte			
MAC	8K		

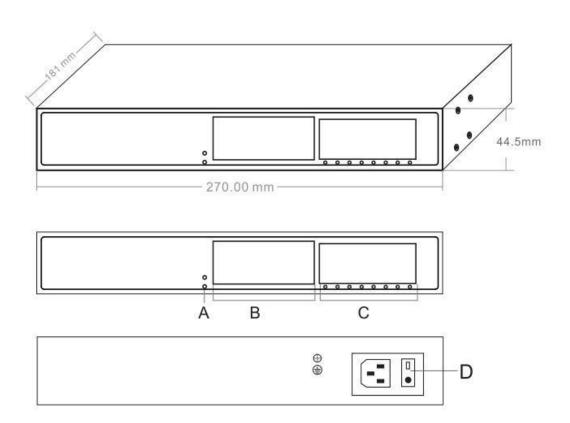
Buffer Memory	6M		
Jumbo Frame	9.6K		
LED Indicator	System: SYS (green), network:Link (yellow), POE: PoE (green), Fiber		
LED Indicator	port: L/A(green)		
Reset Switch	Yes, One-button factory reset		
PoE & Power Supply			
PoE Port	Port 1 to 8 IEEE802.3af/at @ PO	E	
	Total power limit of PoE power su	иррly	
	PoE output power allocation, off8	af &at	
Dol Managament	PoE output priority configuration		
PoE Management	PoE working status		
	Delay start of power supply		
	Scheduling of PoE operation and time		
Power Supply Pin	Default 1/2 (+), 3/6 (-)		
Max Power Per Port	30W; IEEE802.3af/at		
Total PWR / Input	120\\\\\\\\	250M ((A C400 240V)	
Voltage	130W/ (AC100-240V)	250W /(AC100-240V)	
Power Consumption	Standby<15W, Full Load<120W	Standby<16W, Full Load<240W	
Dower Supply	Built in power supply	Built in power supply	
Power Supply	AC100~240V 50-60Hz 2.3A	AC100~240V 50-60Hz 4.1A	
Physical Parameter			
Operation TEMP /	20~+55°C·5%~00% PH Non cor	ndoneing	
Humidity	-20~+55°C;5%~90% RH Non condensing		
Storage TEMP /	40 175°C(50) 050/ DII Non condensina		
Humidity	-40~+75°C;5%~95% RH Non condensing		
Dimension (L*W*H)	270.5*181*44.5mm		
Net /Gross Weight	<1.7kg / <2.2kg		
Installation	Desktop, 19 inch 1U cabinet		

Certification & Warranty			
Lightning protection / protection level	Lightning protection: 4KV 8/20us; Protection level: IP30		
CCC;CE mark, commercial; CE/LVD EN60950;FCC Part 15 0 RoHS			
Warranty	3 years, lifelong maintenance.		
Network Managemen	t Features		
Interface	Port temperature protection setting Port green Ethernet Energy-saving setting Broadcast storm control based on port speed The speed limit of the message flow in the access port. The minimum particle size is 64Kbps.		
Layer 3 Features	L2+ network management IPV4/IPV6 management L3 software routing and forwarding Communication between different network segments and different VLANs Static route, Default route @ 128 pcs, APR @ 1024 pcs		
VLAN	4K VLAN based on port, IEEE802.1q VLAN based on the protocol VLAN based on MAC Voice VLAN, QinQ configuration Port configuration of Access, Trunk, Hybrid		
Port Aggregation	LACP, Static aggregation Max 8 aggregation groups and 8 ports per group.		
Spanning Tree	STP (IEEE802.1d),RSTP (IEEE802.1w),MSTP (IEEE802.1s)		
Industrial Ring Network Protocol	G.8032 (ERPS),Recovery time less than 20ms 250 Ring at most, Max 1024 devices per ring.		

Multicast	MLD Snooping v1/v2,Multicast VLAN		
Wullicast	IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out		
Port Mirroring	Bidirectional data mirroring based on port		
	Flow-based Rate Limiting		
	Flow-based Packet Filtering		
QoS	8*Output queues of each port		
QUS	802.1p/DSCP priority mapping		
	Diff-Serv QoS,Priority Mark/Remark		
	Queue Scheduling Algorithm (SP, WRR, SP+WRR)		
	Port-based Issuing ACL,ACL based on port and VLAN		
ACL	L2 to L4 packet filtering, matching first 80 bytes message. Provide ACL		
AGL	based on MAC, Destination MAC address, IP Source, Destination IP, IP		
	Protocol Type, TCP/UDP Port, TCP/UDP Port Range, and VLAN, etc.		
	IP-MAC-VLAN-Port binding		
	ARP inspection,Anti-DoS attack		
	AAA & RADIUS,MAC learning limit		
Security	Mac black holes,IP source protection		
Security	IEEE802.1X & MAC address authentication		
	Broadcast storm control,Backup for host datum		
	SSH 2.0,SSL,Port isolation,ARP message speed limit		
	User hierarchical management and password protection		
DHCP	DHCP Client, DHCP Snooping, DHCP Server, DHCP Relay		
	One-key recovery		
	Cable Diagnose,LLDP		
	Web Management (HTTPS)		
Management	NTP,System work log,Ping Test		
	CPU instant utilization status view		
	Console/AUX Modem/Telnet/SSH2.0 CLI		
	Download & Management on FTP, TFTP, Xmodem, SFTP,SNMP		

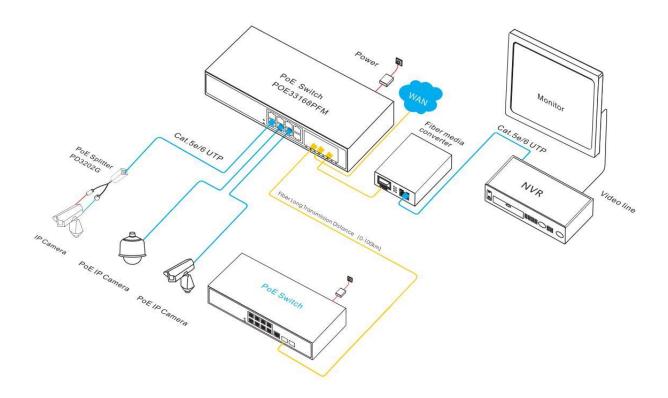
	V1/V2C/V3
	ONV NMS - smart network management system platform(LLDP+SNMP)
System	Category 5 Ethernet network cable
	Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42
	or higher, Microsoft Internet Explorer10 or later;
	TCP/IP, network adapter, and network operating system (such as
	Microsoft Windows, Linux, or Mac OS X) installed on each computer in a
	network

DIMENSION



- A. Working Indicator
- B. 8* 10/100/1000M PoE ports
- C. 8*100/1000M SFP ports
- D. Power input port AC100- 240V,50/60Hz

APPLICATION



ORDERING INFORMATION

Model	Description	
ONV-POE33168PFM	L2+ managed PoE fiber switch with 8* 10/100/1000M RJ45 ports and	
	8*100/1000M SFP fiber slot ports, Port 1-8 can support IEEE802.3af/at	
	PoE standard, Built-in 130W power supply. Support 1U/19 inch rack	
	installation.	
	L2+ managed PoE fiber switch with 8* 10/100/1000M RJ45 ports and	
ONV-POE33168PFM-at	8*100/1000M SFP fiber slot ports, Port 1-8 can support IEEE802.3af/at	
ONV-FOL33100F1 W-at	PoE standard, Built-in 250W power supply. Support 1U/19 inch rack	
	installation.	
Note: The SFP optical module is not included by default and needs to be purchased separately.		

PACKING LIST

	CONTENT	QTY	UNIT
Packing List	16-port full gigabit managed PoE switch	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

OPTICAL MODULE INFORMATION

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

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		SFP optical module, 1.25G, single-mode single fiber	
	ONV-2612-T-S	TX1310nm/RX1550nm, transmission distance:	PC
	С	20km, SC interface, support DDM function, support	PC
		hot plug and pull.	
		SFP optical module, 1.25G, single-mode single fiber	
	ONV-2613-R-S	TX1550nm/RX1310nm, transmission distance:	DO.
	С	20km, SC interface, support DDM function, support	PC
		hot plug and pull.	
Power	ONIV 0000	1.25G SFP optical module transfers to	DO.
Module	ONV-2633	10/100/1000M RJ45 port.	PC

CONTACT US



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