Product Datasheet

18-port Full Gigabit Managed Fiber PoE Switch

ONV-POE33018PFM



OVERVIEW

The ONV-POE33018PFM series is a L2+ managed PoE fiber switch independently developed by ONV. It has 16*10/100/1000Base-T RJ45 ports and 2*100/1000Base-X SFP fiber slot ports . Port 1-16 can support IEEE 802.3af/at standard PoE power supply. single port PoE power reaches 30W, and the maximum PoE output power is 250W(at-400W). 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 hotel, campus, park, commercial supermarket, scenic spot, factory quarter and SMB small and medium-sized enterprises to form a cost-effective network.

The ONV-POE33018PFM has L2+ 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

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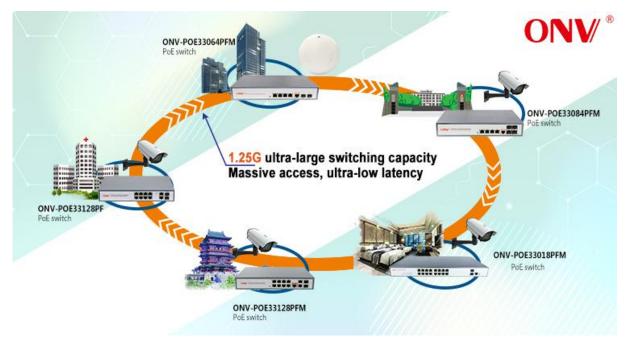
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maintain. Supports multiple network redundancy protocols STP/RSTP/MSTP (<50ms) and (ITU-T G.8032) ERPS to improve link backup and network reliability. When one-way network fails, communication can be quickly restored to ensure important Uninterrupted 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 fiber port uplink

- ◇ All series supports "10/100/1000M RJ45 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.

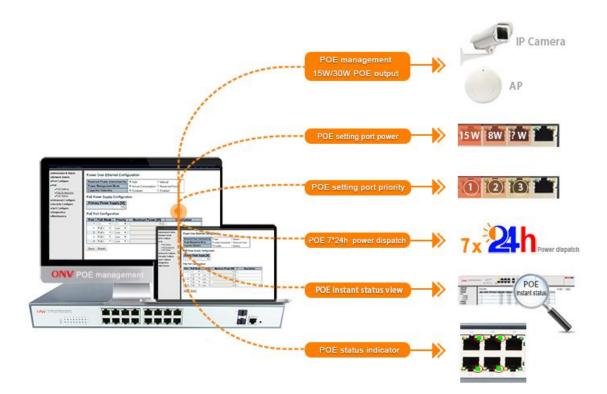


Intelligent PoE power supply

- 16*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.

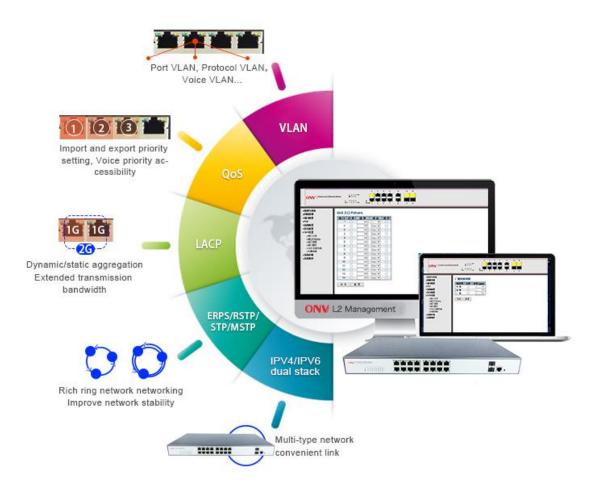
PoE network management, realize PoE port power allocation, priority setting, port power status viewing, time scheduling, etc.



Strong business processing capability

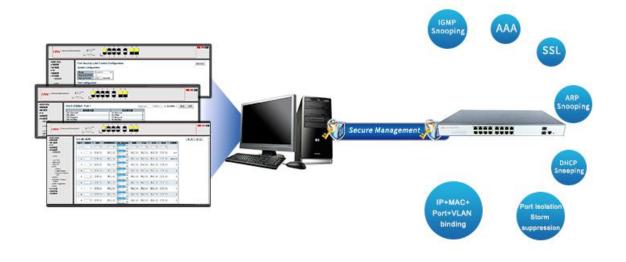
- ♦ IEEE802.1Q VLAN, flexible VLAN division, Voice VLAN and QinQ configuration.
- QoS, Priority mode based on 802.1P, Port & DSCP, queue scheduling algorithm including Equ,
 SP, WRR & SP+WRR.
- ALC, filter data packet through configuring matching rules, processing operation & time permission, and provide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





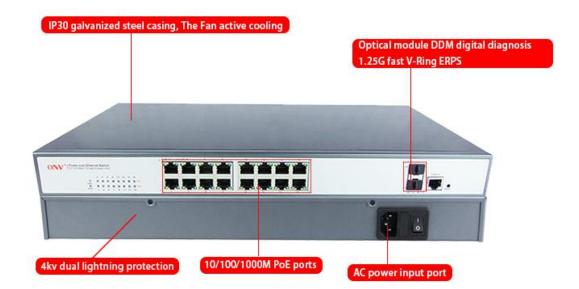
Security

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



Stable and reliable

- \diamond CCC,CE, FCC, RoHS.
- ♦ 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.
- The user-friendly panel, it 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).
- \diamond 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-POE33018PFM	ONV-POE33018PFM-at	
Interface Characteristics			
Fixed Port	16*10/100/1000Base-T PoE ports	(Data/Power)	
	2*100/1000Base-X uplink SFP slot ports		
	1 * RS232 console port(115200,N	,8,1)	
Ethernet Port	10/100/1000Base-T(X),auto-sens	ing,Full/half duplex MDI/MDI-X	
Linemer Fort	self-adaption		
Twisted Pair	10BASE-T: Cat3,4,5 UTP(≤100 m	leter)	
Transmission	100BASE-TX: Cat5 or later UTP(≤100 meter)	
	1000BASE-T: Cat5e or later UTP	(≤100 meter)	
	Gigabit SFP optical fiber interface	, 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 ~ 550M,sing	gle mode: 1310nm 0 ~ 40KM, 1550nm	
	0 ~ 120KM.		
Chip Parameter			
Network L2+			
Management Type	LZT		
	IEEE802.3 10BASE-T; IEEE802.3	3i 10Base-T;	
Network Protocol	IEEE802.3u 100Base-TX; IEEE802.3ab 1000Base-T		
Network i rotocor	IEEE802.3z 1000Base-X		
	IEEE802.3x		
Forwarding Mode	varding Mode Store and Forward(Full Wire Speed)		
Switching Capacity	256Gbps (Non-blocking)		
Forwarding	26.78Mpps		
Rate@64byte	20.7 01vipps		

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MAC	8K		
Buffer Memory	6M		
Jumbo Frame	9.6K		
LED Indicator	Power: PWR (green), system : SYS (yellow), network: Link (yellow),		
LED Indicator	fiber port :L/A (green), PoE: PoE (green), rate: Speed (green)		
Reset Switch	Yes, One-button factory reset		
PoE & Power			
PoE Port	Port 1 to 16 IEEE802.3af/at @ Po	OE	
	Total power limit of PoE power su	upply	
	PoE output power allocation, off8	af &at	
DoE Managament	PoE output priority configuration		
PoE Management	PoE working status		
	Delay start of power supply		
	Scheduling of PoE operation and time		
Power Supply Pin	Defaul 1/2 (+), 3/6 (-)		
Max Power Per Port	30W; IEEE802.3af/at		
Total PWR / Input	250W (AC100-240V)		
Voltage	25000 (AC100-2400)	400W (AC100-240V)	
Power Consumption	Standby<16W, Full Load<240W	Standby<20W, Full Load<380W	
Power Supply	Built-in power supply, AC	Built-in power supply, AC 100~240V	
Power Suppry	100~240V 50-60Hz 4.1A	50-60Hz 5.0A	
Physical Parameter			
Operation TEMP /	20-155°C 5% - 00% DH Non 20	ndensing	
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	<4.2kg / <4.7kg <4.4kg / <5.0kg		

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Installation	Desktop, 19 inch 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	t Features	
	IEEE802.3X (Full-duplex)	
	Port temperature protection setting	
lucker of a sec	Port green Ethernet Energy-saving setting	
Interface	Broadcast storm control based on port speed	
	The speed limit of the message flow in the access port.	
	The minimum particle size is 64Kbps.	
	L2+ network management ,IPV4/IPV6 management	
Layer 3 Features	L3 soft routing forwarding,	
	Static route, Default route @ 128 pcs, APR @ 1024 pcs	
	4K VLAN based on port, IEEE802.1q	
	VLAN based on the protocol	
VLAN	VLAN based on MAC	
	Voice VLAN, QinQ configuration	
	Port configuration of Access, Trunk, Hybrid	
Port Aggregation	LACP, Static aggregation	
	Max 9 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	250 Ring at most, Max 254 devices per ring.	
Multicast	MLD Snooping v1/v2,Multicast VLAN	
Mattioust	IGMP Snooping v1/v2, Max 250 multicast groups, Fast log out	

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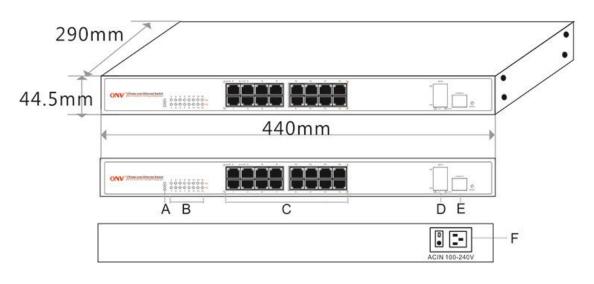
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Port Mirroring	Bidirectional data mirroring based on port
0.0	Flow-based Rate Limiting
	Flow-based Packet Filtering
	8*Output queues of each port
QoS	802.1p/DSCP priority mapping
	Diff-Serv QoS, Priority Mark/Remark
	Queue Scheduling Algorithm (SP, 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
Socurity	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)
	NTP,System work log,Ping Test
Management	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



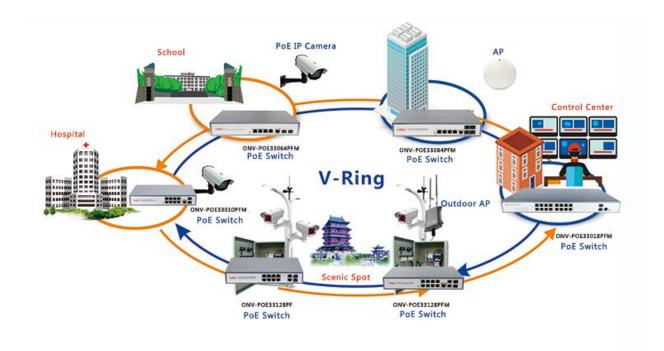
A.Working indicator

C. 16* PoE ports E.Console port **B.PoE Working indicator**

D.2*Gigabit SFP ports

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

APPLICATION



ORDERING INFORMATION

Model	Description	
ONV-POE33018PFM	L2+ managed PoE fiber switch with 16* 10/100/1000M RJ45 ports and	
	2*100/1000M SFP fiber slot ports, Port 1-16 can support	
	IEEE802.3af/at PoE standard, Built-in 250W power supply. Support	
	1U/19 inch rack installation.	
ONV-POE33018PFM-at	L2+ managed PoE fiber switch with 16* 10/100/1000M RJ45 ports and	
	2*100/1000M SFP fiber slot ports, Port 1-16 can support	
	IEEE802.3af/at PoE standard, Built-in 400W power supply. Support	
	1U/19 inch rack installation.	
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Note:PoE switch does not match the SFP module.

PACKING LIST

PACKING LIST	CONTENT	QTY	UNIT
	18-port full gigabit managed PoE fiber 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 Fiber Module	ONV-2630 ONV-2632	 SFP optical module, 1.25G, multi mode dual fiber 850nm, transmission distance: 550m, LC interface, support DDM function, support hot plug and pull. SFP optical module, 1.25G, single-mode dual fiber 1310nm, transmission distance: 20km, LC interface, 	PC PC
		support DDM function, support hot plug and pull.	
	ONV-2612-T	SFP optical module, 1.25G, single-mode single fiberTX1310nm/RX1550nm, transmission distance:20km, LC interface, support DDM function, supporthot plug and pull.	PC
	ONV-2613-R	SFP optical module, 1.25G, single-mode single fiber TX1550nm/RX1310nm, transmission distance:	PC

		20km, LC interface, support DDM function, support	
		hot plug and pull.	
		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	FC
		hot plug and pull.	
		SFP optical module, 1.25G, single-mode single fiber	
	ONV-2613-R-S	TX1550nm/RX1310nm, transmission distance:	PC
	С	20km, SC interface, support DDM function, support	FC
		hot plug and pull.	
Power	ONV-2633	1.25G SFP optical module transfers to	PC
Module	0111-2033	10/100/1000M RJ45 port.	FC

RELATED PRODUCT

Model	Description
	L2+ managed PoE fiber switch with 8*10/100/1000M RJ45 ports and
ONV-POE33108PFM	2*10/1000M SFP slot ports, Port 1-8 can support IEEE802.3af/at PoE.
	Built-in 130W power supply.
	L2+ managed PoE fiber switch with 24*10/100/1000M RJ45 ports and
ONV-POE36028PFM	4*1/10G SFP slot ports, Port 1-24 can support IEEE802.3af/at PoE.
	Built-in 400W power supply.
	L2+ managed PoE fiber switch with 24*10/100/1000M RJ45 ports and
ONV-POE36036PFM	8*100/1000M SFP slot ports and 4*1/10G SFP+ slot ports, Port 1-24 can
	support IEEE802.3af/at PoE. Built-in 400W power supply.
ONV-POE36048PFM	L2+ managed PoE fiber switch with 48*10/100/1000M RJ45 ports and
	4*1/10G SFP+ slot ports, Port 1-48 can support IEEE802.3af/at PoE.
	Built-in 600W power supply.

L2+ managed PoE fiber switch with 12*10/100/1000M RJ45 ports andONV-POE36448PFM28*100/1000M SFP slot ports and 4*1/10G SFP+ slot ports, Port 1-8 can
support IEEE802.3af/at PoE. Built-in 400W power supply.

CONTACT US

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