Product Datasheet

28-port Full Gigabit Managed PoE Switch

ONV-POE33028PFM



OVERVIEW

The ONV-POE33028PFM is a full gigabit L2+ managed PoE fiber switch independently developed by ONV. It has 24*10/100/1000Base-T RJ45 ports and 4*100/1000Base-X SFP fiber slot ports. Port 1-24 can support IEEE802.3af/at standard PoE power supply. single port PoE power reaches 30W, and the maximum PoE output power is 400W(at-600W). 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 through network cable, to meet the network environment that needs high-density PoE power supply, suitable for hotels, campuses, parks, supermarkets, scenic spots, Factory quarters and SMB small and medium-sized enterprises form a cost-effective network.

The ONV-POE33028PFM has L2+ full network management, support IPV4 management, static route full line rate forwarding, 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) 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 support "Gigabit Ethernet 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

- 24*10/100/1000Base-T RJ45 ports, meeting the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.
- ♦ IEEE802.3af/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.

Security

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

Strong business processing capability

- ♦ IEEE802.1Q VLAN, flexible VLAN division.
- ♦ 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.
- ♦ STP/RSTP/MSTP.
- Static and dynamic aggregation.

■ Stable and reliable

- ♦ 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

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

TECHNICAL SPECIFICATION

Model	ONV-POE33028PFM	ONV-POE33028PFM-at
Interface Characteristics		
	24*10/100/1000Base-T PoE ports	(Data/Power)
Fixed Port	4*100/1000Base-X uplink SFP slot ports (Data)	
	1 * RS232 console port(115200,N	I,8,1)

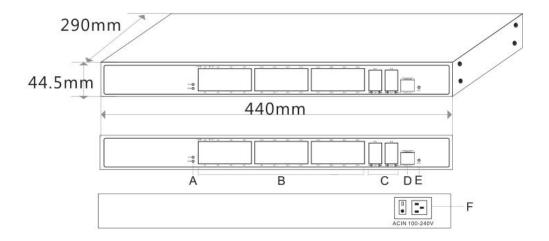
	10/100/1000Base-T(X), auto-sensing, full/half duplex MDI/MDI-X
Ethernet Port	
	self-adaption
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter)
	100BASE-TX: Cat5 or later UTP(≤100 meter)
Halisillission	1000BASE-T: Cat5e or later UTP(≤100 meter)
	Gigabit SFP optical fiber interface, default 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 ~ 500M, single mode: 1310nm/ 0 ~ 40KM,
Distance	1550nm /0 ~ 120KM.
Chip Parameter	
Network Management	
Туре	L2+
	IEEE802.3 10BASE-T
	IEEE802.3i 10Base-T
	IEEE802.3u 100Base-TX
Network Protocol	IEEE802.3ab 1000Base-T
	IEEE802.3z 1000Base-X
	IEEE802.3x
Forwarding Mode	Store and Forward(Full Wire Speed)
Switching Capacity	192Gbps
Forwarding	41.7Mpps
Rate@64byte	
MAC	8K
Buffer Memory	4.1M
·	
Jumbo Frame	10K
LED Indicator	Power:PWR(yellow), System:SYS(yellow), Network;Link/Act(yellow),
	POE: PoE (green), Fiber port: L/A(green)

Reset Switch	Yes, One-button factory reset		
PoE & Power Supply	OE & Power Supply		
PoE Port	Port 1 to 24 IEEE802.3af/at @ POE		
	Total power limit of PoE power supply		
	PoE output power allocation, off& af &at		
Do E 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	400\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	00000 (4 0400 040) ()	
Voltage	400W (AC100-240V)	600W (AC100-240V)	
Power Consumption	Standby:<18W,Full load:<380W	Standby:<22W,Full load:<600W	
Davier Comple	Built-in power supply, AC	Built-in power supply, AC 100~240V	
Power Supply	100~240V 50-60Hz 5.0A	50-60Hz 6.6A	
Physical Parameter			
Operation TEMP /			
Humidity	-20~+55°C;5%~90% RH Non cor	idensing	
Storage TEMP /	40. 175°C(50), 050/ DILNer cor	adanaina	
Humidity	-40~+75°C;5%~95% RH Non cor	idensing	
Dimension (L*W*H)	440*290*44.5mm		
Net /Gross Weight	<4.4kg / <5.0kg	<4.6kg / <5.3kg	
Installation	Desktop, 19 inch 1U cabinet		
Certification & Warran	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 Features		
	IEEE802.3X (Full-duplex)	
	Broadcast storm control based on port speed	
Interface	Port real-time traffic management (Flow Interval)	
	The speed limit of the message flow in the access port. The minimum	
	particle size is 1Gbps.	
	L2+ Network management	
Layer 3 Features	IPV4 management	
	Static route, Default route @ 128 pcs, APR @ 1024 pcs	
	VLAN based on the protocol	
VLAN	4K VLAN based on port, IEEE802.1q	
	Port configuration of Access, Trunk, Hybrid	
Port Aggregation	LACP, Static aggregation	
Fort Aggregation	Max 14 aggregation groups and 8 ports per group.	
Spanning Tree	STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)	
Multicast	IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out	
Mullicast	Multicast VLAN	
Port Mirroring	Bidirectional data mirroring based on port	
	Flow-based redirection	
	Flow-based rate limiting	
	Flow-based packet filtering	
QoS	8*Output queues of each port	
	802.1p/DSCP priority mapping	
	Diff-Serv QoS,Priority Mark/Remark	
	Queue Scheduling Algorithm (SP, WRR, SP+WRR)	
ACL	Port-based Issuing ACL	
AGL	ACL based on port and VLAN	

	L2 to L4 packet filtering, matching first 80 bytes message. Provide ACL
	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
	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
	One-key recovery
	Cable Diagnose,LLDP
	Web Management (HTTPS)
	NTP,System work log,Ping Test
Managana	CPU instant utilization status view
Management	Console/AUX Modem/Telnet/SSH2.0 CLI
	ONV-NMS - Smart Network Management System Platform
	(LLDP+SNMP)
	Download & Management on FTP, TFTP, Xmodem, SFTP,SNMP
	V1/V2C/V3
	Category 5 Ethernet network cable
	Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42
Cuatam	or higher, Microsoft Internet Explorer10 or later;
System	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. 24* PoE ports

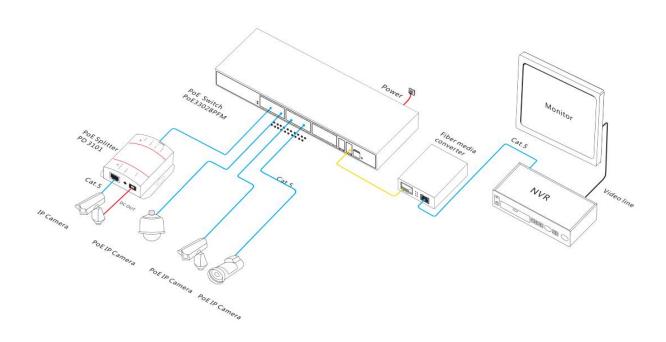
C. 4*Gigabit SFP ports

D. Console port

E.Reset switch

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

APPLICATION



ORDERING INFORMATION

Model	Description	
ONV-POE33028PFM	L2+ managed PoE fiber switch with 24* 10/100/1000M RJ45 ports and 4*100/1000M SFP fiber slot ports, Port 1-24 can support IEEE802.3af/at PoE, Built-in 400W power supply.	
ONV-POE33028PFM- at	L2+ managed PoE fiber switch with 24* 10/100/1000M RJ45 ports and 4*100/1000M SFP fiber slot ports, Port 1-24 can support IEEE802.3af/at PoE, Built-in 600W power supply.	
Note: The SFP optical module is not included by default and needs to be purchased separately.		

PACKING LIST

	CONTENT	QTY	UNIT
PACKING LIST	28-port full gigabit managed PoE 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		SFP optical module, 1.25G, multi mode dual fiber	
Optical	ONV-2630	850nm, transmission distance: 550m, LC interface,	PC
Module		support DDM, hot plug and pull.	

		SFP optical module, 1.25G, single-mode dual fiber	
	ONV-2632	1310nm, transmission distance: 20km, LC interface,	PC
		support DDM, hot plug and pull.	
		SFP optical module, 1.25G, single-mode single fiber	
	ONV-2612-T	TX1310nm/RX1550nm, transmission distance: 20km,	PC
		LC interface, support DDM, hot plug and pull.	
		SFP optical module, 1.25G, single-mode single fiber	
	ONV-2613-R	TX1550nm/RX1310nm, transmission distance: 20km,	PC
		LC interface, support DDM, hot plug and pull.	
	ONV-2612-T-S	SFP optical module, 1.25G, single-mode single fiber	
	C C	TX1310nm/RX1550nm, transmission distance: 20km,	PC
		SC interface, support DDM, hot plug and pull.	
	ONIV 2612 D.C	SFP optical module, 1.25G, single-mode single fiber	
	ONV-2613-R-S C	TX1550nm/RX1310nm, transmission distance: 20km,	PC
		SC interface, support DDM, hot plug and pull.	
Power	ONIV 2632	1.25G SFP optical module transfers to 10/100/1000M	PC
Module	ONV-2633	RJ45 port.	FU

RELATED PRODUCT

Model	Description
ONV-POE33018PFM	L2+ managed PoE fiber switch with 18*10/100/1000M RJ45 ports
	and 2*10/1000M SFP slot ports, Port 1-16 can support
	IEEE802.3af/at PoE. Built-in 250W power supply.
	L2+ managed PoE fiber switch with 24*10/100/1000M RJ45 ports
ONV-POE36028PFM	and 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
ONV-POE36036PFM	and 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.
	L2+ managed PoE fiber switch with 48*10/100/1000M RJ45 ports
ONV-POE36048PFM	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
ONV-POE36448PFM	and 28*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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