Product Datasheet

10-port Full Gigabit Managed PoE Switch

ONV-POE33010PFM



OVERVIEW

The ONV-POE33010PFM is a full gigabit L2+ managed PoE fiber switch independently developed by ONV. It has 8*10/100/1000Base-T RJ45 ports and 2*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 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-POE33010PFM 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

- 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

- ♦ 8*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.

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.

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, 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).
- ♦ 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-POE33010PFM	ONV-POE33010PFM-at
Interface Characteristics		
	8*10/100/1000Base-T PoE ports	(Data/Power)
Fixed Port	2*100/1000Base-X uplink SFP slot ports (Data)	
	1 * RS232 console port(115200,N,8,1)	

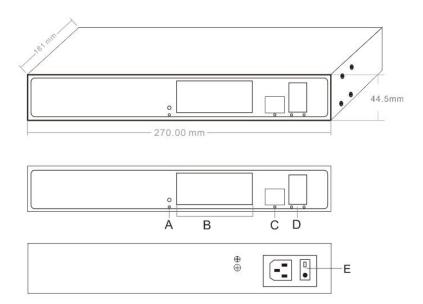
Ethernet Port	10/100/1000Base-T(X), auto-sensing, full/half duplex MDI/MDI-X	
	self-adaption	
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter)	
	100BASE-TX: Cat5 or later UTP(≤100 meter)	
	1000BASE-T: Cat5e or later UTP(≤100 meter)	
	Gigabit SFP optical fiber interface, default matching optical modules	
SFP Slot Port	(optional order single-mode / multi-mode, single fiber / dual fiber optical	
	module. LC)	
Optical Cable/	Multi mode: 850nm / 0 ~ 500M, single mode: 1310nm/ 0 ~ 40KM,	
Distance	1550nm /0 ~ 120KM.	
Chip Parameter		
Network	L2+	
Management Type		
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T	
	IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T	
	IEEE802.3z 1000Base-X, IEEE802.3x	
Forwarding Mode	Store and Forward(Full Wire Speed)	
Switching Capacity	128Gbps	
Forwarding	14.88Mpps	
Rate@64byte		
MAC	8K	
Buffer Memory	4.1M	
Jumbo Frame	10K	
CPU(Hz)	500M	
DRAM	1G	
Flash	128M	
LED Indicator	Power:PWR (yellow), system :SYS (green), network ;Link (yellow),	
LED Indicator	POE: PoE (green), Fiber port: L/A(green)	

Reset Switch	Yes, One-button factory reset		
PoE & Power			
PoE Port	Port 1 to 8 IEEE802.3af/at @ POE		
	Total power limit of PoE power supply		
	PoE output power allocation, off& af &at		
PoE Management	PoE output priority configuration		
r oz managomom	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	130W (AC100-240V)	250W (AC100-240V)	
Voltage		20011 (1.0100 2.101)	
Power Consumption	Standby:<8W, Full load:<120W	Standby:<10W, Full load:<240W	
Power Supply	Built-in power supply, AC	Built-in power supply, AC 100~240V	
. evie. eupply	100~240V 50-60Hz 2.3A	50-60Hz 4.1A	
Physical Parameter	Physical Parameter		
Operation TEMP /	-20~+55°C;5%~90% RH Non condensing		
Humidity	20 00 0,070 0070 11111011 001	lastioning	
Storage TEMP /	-40~+75°C;5%~95% RH Non condensing		
Humidity		lastioning	
Dimension (L*W*H)	270*181*44.5mm		
Net /Gross Weight	<1.7kg / <2.2kg		
Installation	Desktop, Wall-mounted, 19 inch 1U cabinet		
Certification & Warranty			
Lightning protection /	Lightning protection: 4KV 8/20us; Protection level: IP30		
protection level			
Certification	CCC;CE mark, commercial; CE/LVD EN60950;FCC Part 15 Class		

	B; RoHS;		
Warranty	3 years, lifelong maintenance.		
Network Managemen	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.		
Lavor 2 Footures	L2+ Network management, IPV4 management		
Layer 3 Features	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 5 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		
Multicast	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)		
	Port-based Issuing ACL		
ACL	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
Managamant	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
	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

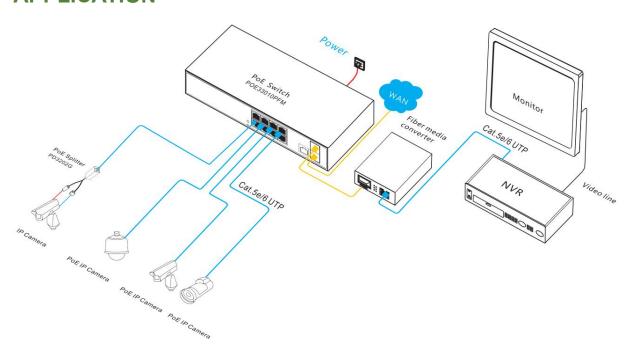
B. 8*10/100/1000M PoE Ports

C.Console Port

D.2*100/1000M SFP Ports

E.Power Input Port 100-240V AC,50/60Hz

APPLICATION



ORDERING INFORMATION

Model	Description
	L2+ managed PoE fiber switch with 8* 10/100/1000M RJ45 ports and
ONV-POE33010PFM	2*100/1000M SFP fiber slot ports. Port 1-8 can support IEEE802.3af/at
	PoE standard, Built-in 130W power supply.
ONV-POE33010PFM-at	L2+ managed PoE fiber switch with 8* 10/100/1000M RJ45 ports and
	2*100/1000M SFP fiber slot ports. Port 1-8 can support IEEE802.3af/at
	PoE standard, Built-in 250W 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	10-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
	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
	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
1.25G	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
Optical Module	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- SC	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 -SC	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
Power Module	ONV-2633	1.25G SFP optical module transfers to 10/100/1000M RJ45 port.	PC

RELATED PRODUCT

Model	Description	
	L2+ managed PoE fiber switch with 16*10/100/1000M RJ45 ports and	
ONV-POE33020PFM	4*10/1000M SFP 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 and	
ONV-POE33028PFM	4*100/1000M SFP fiber ports. Port 1-24 can support IEEE802.3af/at	
	PoE standard, Built-in 400W power supply.	
ONV-POE36036PFM	L2+ managed PoE fiber switch with 24*10/100/1000M RJ45 ports and	
	8*100/1000M SFP slot ports and 4*1/10G SFP+ 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 and	
ONV-POE36048PFM	4*1/10G SFP+ 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 and	
ONV-POE36448PFM	28*100/1000M SFP ports and 4*1/10G SFP+ slot ports. Port 1-8 can	
	support IEEE802.3af/at PoE. Built-in 400W power supply.	

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