Product Datasheet

10-port Full Gigabit L2+ Managed PoE Fiber Switch

(ONV-POE33108PFM)



OVERVIEW

The ONV-POE33108PFM is a gigabit L2+ managed PoE fiber switch independently developed by ONV. It has 8*10/100/1000Base-T adaptive RJ45 ports and 2*100/1000Base-X SFP fiber ports. Port 1-8 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-POE33108PFM has L2+ network management functions, supports IPV4/ IPV6 management, 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.
- ♦ 8*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

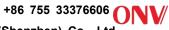
- ♦ Port isolation and storm control.
- ♦ IP+MAC+port+VLAN quadruple flexible combination binding function.
- ♦ 802.1X authentication provides authentication functions for LAN computers and controls the authorization status of controlled ports according to the authentication results.

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

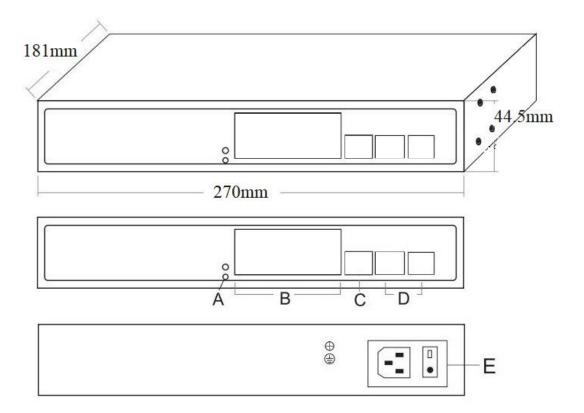
Model	ONV-POE33108PFM	ONV-POE33108PFM-at
Interface Characteristics		
Fixed Port	1*Console RS232 port (115200,N,8,1)
	8*10/100/1000Base-T PoE ports (Dat	a/Power)
	2*100/1000Base-X uplink SFP fiber p	orts (Data)
Ethernet Port	Port 1-8 can support 10/100/1000Bas	e-T auto-sensing, full/ half duplex MDI/
Linemetroit	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)
Hallottiloolott	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-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	0Base-T, IEEE 802.3u 100Base-TX,
Network i Totocoi	IEEE 802.3ab 1000Base-T, IEEE 802	2.3z 1000Base-X, IEEE 802.3x
Forwarding Mode	Store and Forward (Full Wire Speed)	
Switching Capacity	20Gbps (non-blocking)	
Forwarding	14.88Mpps	
Rate@64byte	14.00Ινίρμο	
CPU	416MHz	
DRAM	1G	
FLASH	128M	
Buffer Memory	4M	

MAC	8K	
Jumbo Frame	9.6K	(0)) (
LED Indicator		(Green), Network: Link (Yellow), Fiber
	port: L/A (Green), POE: PoE (Green)	
Reset Switch	Yes, support one key to restore factor	ry settings
PoE & Power Supply		
PoE Port	Port 1-8	
	Port PoE output power allocation, on/off/af/at	
DoE Managament	PoE power supply total power limit co	onfiguration
PoE Management	PoE work and time scheduling, Powe	r 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		
Voltage	130W/ (AC100-240V)	250W/ (AC100-240V)
Power Consumption	Standby<8W, Full Load<120W	Standby<10W, Full Load<240W
D 0 1	Built-in power supply, AC100~240V	Built-in power supply, AC100~240V
Power Supply	50-60Hz, 2.3A	50-60Hz, 4.1A
Physical Parameter		
Operation TEMP/	0000 .5500 50/ 000/ 51111	
Humidity	-20°C~+55°C, 5%~90% RH Non cond	gensing
Storage TEMP/	40000	
Humidity	-40°C~+75°C, 5%~95% RH Non condensing	
Dimension (L*W*H)	270*181*44.5mm	
Net /Gross Weight	1.3kg/ 1.9kg	1.5kg/ 2.1kg
Installation	Desktop, wall mount, 19-inch 1U cabinet mount	
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 Managemen	t Feature
	Port temperature protection setting
	IEEE 802.3x flow control (Full duplex)
Interfece	Port green Ethernet Energy-saving setting
Interface	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
Dort Aggregation	LACP dynamic aggregation, static aggregation
Port Aggregation	Max 5 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.
B.A. Itia a a t	IGMP Snooping v1/v2/v3, Max 1024 multicast groups
Multicast	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

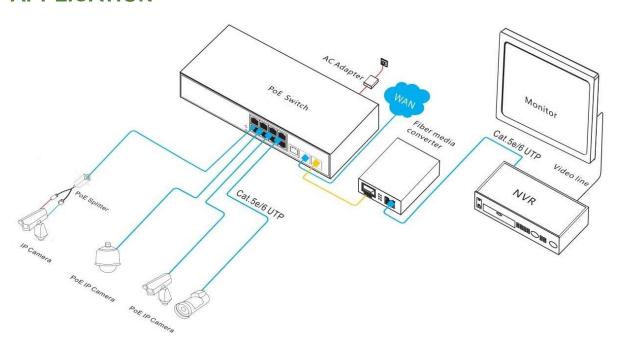
	Diff-Serv QoS, Queue Scheduling Algorithm (SP, WRR, SP+WRR)
	ACL distribution based on port and VLAN
	L2-L4 packet filtering function, matching the first 80 bytes message, and
ACL	provides ACL definitions based on source MAC address, destination MAC
	address, source IP address, destination IP address, 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
System	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

DIMENSION



- A. Working indicator
- B. 8*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-POE33108PFM	L2+ managed PoE fiber switch with 8*10/100/1000M	130W
ONV-FOL33100F1 WI	RJ45 ports and 2*100/1000M uplink SFP fiber ports.	10000
ONIV DOE22400DEM -+	Port 1-8 can support IEEE 802.3 af/at PoE standard. It	250///
ONV-POE33108PFM-at	built-in power supply and 1U/19" cabinet installation.	250W
Note: The optical module is not included and needs to be purchased.		

PACKING LIST

	Content	Qty	Unit
Packing List	10-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

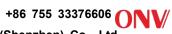
OPTICAL MODULE

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

RELATED PRODUCT

Model	Description
ONV-POE33018PFM	L2+ managed PoE fiber switch with 16*10/100/1000M RJ45 ports and
	2*10/1000M uplink SFP fiber ports. Port 1-16 can support IEEE 802.3
	af/at PoE standard. It built-in 250W power supply and 1U/19" cabinet
	installation.
	L2+ managed PoE fiber switch with 24*10/100/1000M RJ45 ports and
ONV-POE36028PFM	4*1/10G uplink SFP+ fiber ports. Port 1-24 can support IEEE 802.3 af/at
ONV-POE30020PFIVI	PoE standard. It built-in 400W power supply and 1U/19" cabinet
	installation.
ONV-POE36036PFM	L2+ managed PoE fiber switch with 24*10/100/1000M RJ45 ports and
	8*100/1000M SFP fiber ports and 4*1/10G 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.
ONV-POE36048PFM	L2+ managed PoE fiber switch with 48*10/100/1000M RJ45 ports and
	4*1/10G uplink SFP+ fiber ports. Port 1-48 can support IEEE 802.3 af/at
	PoE standard. It built-in 600W power supply and 1U/19" cabinet
	installation.

CONTACT US



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