Product Datasheet

6-port Gigabit Managed PoE Fiber Switch

(ONV-POE33006PFM)



OVERVIEW

The ONV-POE33006PFM is a Gigabit L2+ managed PoE fiber switch independently developed by ONV. It has 4*10/100/1000Base-T adaptive RJ45 ports and 2*100/1000Base-X uplink SFP fiber ports. Port 1-4 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 powered devices that meet standards and power them through network cables. It can power PoE terminal equipment such as wireless AP, IP camera, IP telephone, and building visual access control intercoms through network cables to meet network environments that require high-density PoE power supply. It is suitable for hotels, campuses, parks, supermarkets, scenic spots, factory dormitories, and small and medium-sized enterprises to establish cost-effective networks.

The ONV-POE33006PFM has L2+ network management functions. It can support IPV4 management and static routing forwarding, complete security protection mechanisms, complete ACL/ QoS policies, and rich VLAN functions, making it easy to manage and maintain. Supports multiple network redundancy protocols STP/ RSTP/ MSTP (<50ms) to improve link backup and network reliability. When a one-way 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 application service configurations can be performed through network management methods such as Web, CLI, SNMP, and Telnet.

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 Gigabit SFP port combination, which enables users to flexibly build networking to meet the needs of various scenarios.

■ Smart PoE power supply

- Comply with IEEE 802.3 af/at PoE power supply standard, automatically identify PoE equipment for power supply.
- 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.
- 4*10/100/1000Base-T RJ45 ports support PoE power to meet the power supply needs of security monitoring, conference call systems, wireless coverage, and other scenarios.
- Support PoE network management function, which can realize power allocation of each PoE port, priority setting, port power status viewing, time scheduling, etc. through network management configuration.

Strong business processing capability

- Support IEEE 802.1Q VLAN and protocol VLAN, users can flexibly divide VLAN according to needs.
- ♦ Ring network STP/ RSTP/ MSTP spanning tree protocol eliminates layer 2 loops and realizes link backup.
- ♦ Support QoS, three priority modes based on port, 802.1P-based and DSCP-based, and four queue scheduling algorithms: Equ, SP, WRR, and SP+WRR.
- Support ACL to filter data packets by configuring matching rules, processing operations, and time permissions to provide flexible security access control strategies.
- Support IGMP V1/V2 multicast protocol and IGMP Snooping to meet the needs of multi-terminal high-definition video surveillance and video conferencing access.

 Static aggregation and dynamic aggregation effectively increase link bandwidth, achieve load balancing, and link backup, and improve link reliability.

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.
- ♦ The user-friendly panel can show the device status through the LED indicator of PWR, PoE, and Link.
- Using self-developed power supply with high redundancy design provides long-term and stable PoE power output.
- ♦ Low power consumption, with fan, galvanized steel metal casing, and excellent heat dissipation to ensure the stable operation of the switch.

■ Easy O&M management

- ♦ CPU monitoring, memory monitoring, Ping detection, and cable detection.
- ♦ HTTPS, SSLV3, SSH V1/V2, and other encryption methods make management more secure.
- ♦ RMON, system logs, and port traffic statistics facilitate network optimization and transformation.
- ♦ LLDP facilitates the network management system to query and determine the communication status of the link.
- Web network management, CLI (Console, Telnet), SNMP (V1/V2/V3), Telnet and other diversified management and maintenance methods.



TECHNICAL SPECIFICATION

Model	ONV-POE33006PFM	ONV-POE33006PFM-at
Interface Characteristics		
Fixed Port	1*Console RS232 port (115200,N,8,	,1)
	4*10/100/1000Base-T PoE ports (Da	ata /Power)
	2*100/1000Base-X uplink SFP fiber	ports (Data)
Ethernet Port	Port 1-4 can support 10/100/1000Ba	ase-T(X) auto-sensing, full/ half
Euleriet i olt	duplex MDI/ MDI-X self-adaption	
Twisted Pair	10BASE-T: Cat3,4,5 UTP (≤100 me	ters)
Transmission	100BASE-TX: Cat5 or later UTP (≤1	00 meters)
Tanomiosion	1000BASE-T: Cat5e or later UTP (≤	100 meters)
Optical Fiber Port	Gigabit optical fiber interface, defaul	t no include optical module (optional
Optical Fiber Fort	single-mode/ multi-mode, single fibe	er/ 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		
	IEEE 802.3 10BASE-T, IEEE 802.3i	10Base-T, IEEE 802.3u
Network Protocol	100Base-TX, IEEE 802.3ab 1000Ba	se-T, IEEE 802.3z 1000Base-X,
	IEEE 802.3x	
Forwarding Mode	Store and Forward (Full Wire Speed	1)
Switching Capacity	12Gbps (non-blocking)	
Forwarding	9 02Mppe	
Rate@64byte	8.93Mpps	
CPU(Hz)	500M	
DRAM	1G	
Flash	128M	

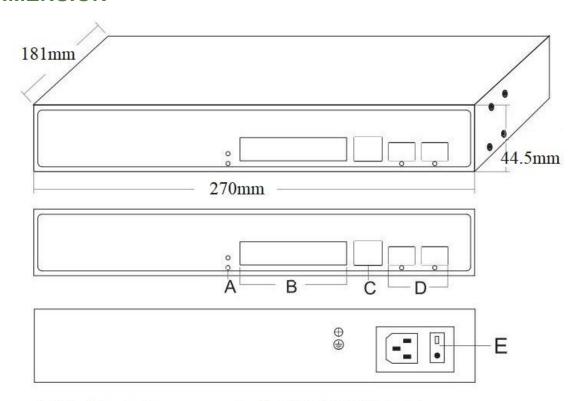
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MAC	8K		
Buffer Memory	4.1M		
Jumbo Frame	10K		
LED Indicator	Power: PWR (Green), PoE: PoE (Green), Network: Link (Yellow), Fiber		
	port: L/A (Green)		
Reset Switch	Short press for less than 5 seconds to restart the switch.		
Neset Owiton	Short press for more than 5 seconds to restore factory settings.		
PoE & Power Supply			
PoE Port	Port 1-4		
	Port PoE output priority configuration	n	
PoE Management	PoE power supply total power limit of	configuration	
FOE Management	PoE work and time scheduling, Port PoE working status display		
	Port PoE output power distribution, PoE on/off, af/at power distribution		
Power Supply Pin	1/2(+) 3/6(-)		
Max Power Per Port	30W, IEEE 802.3 af/at		
Total PWR / Input	65W/ (AC100-240V)	130W /(AC100-240V)	
Voltage	00VV/ (A0100-240V)	130VV /(AO100-240V)	
Power Consumption	Standby<5W, Full load<60W	Standby<6W, Full load<120W	
Power Supply	Built in power supply,	Built in power supply,	
1 ower Suppry	AC100~240V 50-60Hz, 1.0A	AC100~240V 50-60Hz, 2.3A	
Physical Parameter			
Operation TEMP/	-20°C~+55°C, 5%~90% RH Non co	ndensing	
Humidity	-20 0 100 0, 070 90 WHITHOH CO	nucrising	
Storage TEMP/	-40°C~+80°C, 5%~95% RH Non condensing		
Humidity			
Dimension (L*W*H)	270*181*44.5mm		
Net /Gross Weight	1.2kg /1.8kg	1.3kg /1.9kg	
Installation	Desktop, wall mount, 1U/19" cabinet		
Certification & Warranty			

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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
	IEEE802.3x flow control (Full duplex)
	Broadcast storm suppression based on port rate
Interface	Port real-time traffic management (Flow Interval)
	Limit the rate of packet traffic on incoming and outgoing ports, mini
	granularity is 16Kbps and max is 1Gbps
L3 Feature	IPV4 static route/ default route, max 128 entries
L3 Feature	L2+ network management function, ARP protocol, max 1024 entries
VLAN	Port-based VLAN (4K), VLAN based on the protocol
VLAN	IEEE802.1q, Port configuration of Access, Trunk, Hybrid
Port Aggregation	LACP dynamic aggregation, static aggregation
1 oft Aggregation	Max 3 aggregation groups and 8 ports per group
Spanning Tree	STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)
Multicast	Multicast VLAN, User quick exit mechanism
Mullicast	IGMP Snooping v1/v2, Max 1024 multicast groups
Port Mirroring	Bidirectional data mirroring based on port
	Queue scheduling algorithm (SP, WRR, SP+WRR)
QoS	Flow-based rate limiting, Flow-based packet filtering
Qoo	Flow-based based redirection, 8*Output queues of each port
	802.1p/ DSCP priority mapping, Diff-Serv QoS, Priority Mark/ Remark
	Port-based and VLAN-delivered ACL
	The L2-L4 packet filtering function can match the first 80 bytes of the
ACL	packet and provide information based on source MAC address,
	destination MAC address, source IP address, destination IP address, IP
	protocol type, TCP/UDP port, TCP/UDP port range, and VLAN Wait to

	define the ACL.
	ARP intrusion detection function
	ARP message rate limiting function
	Port-based IEEE802.1X certification
	Port broadcast message suppression
	SSL ensures data transmission security
Security	Port isolation, IP source address protection
	Host data backup mechanism, Anti-DoS attack
	Limit on the number of MAC addresses learned
	AAA&RADIUS certification, MAC address black hole
	User hierarchical management and password protection
	SSH 2.0 provides a secure encrypted channel for user login
DHCP	DHCP Client, DHCP Snooping, DHCP Server
	Web network management (https)
	View CPU real-time utilization status
	Link Layer Discovery Protocol (LLDP)
Management	NTP clock, SNMP V1/V2/V3, System work log
Wanagement	One click recovery, Ping detection, Cable status check
	ONV-NMS platform cluster management (LLDP+SNMP)
	Console/ AUX Modem/ Telnet/ SSH2.0 and CLI configuration
	FTP, TFTP, Xmodem, SFTP file upload and download management
	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

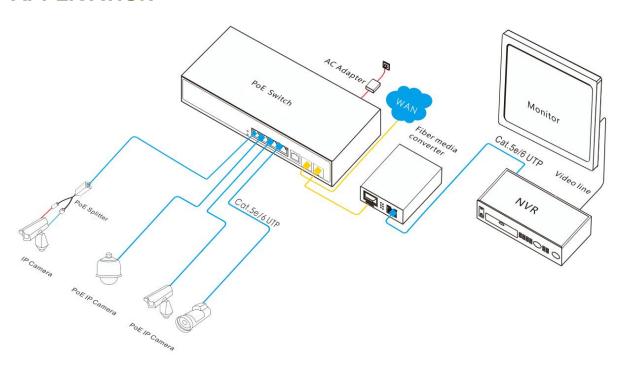


A. Working indicator B. 4*10/100/1000M PoE ports

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-POE33006PFM	L2+ managed PoE switch with 4*10/100/1000M RJ45 ports and 2*100/1000M uplink SFP fiber ports. Port 1-4 can support IEEE 802.3 af/at PoE	65W
ONV-POE33006PFM-at	standard. It built-in power supply and 1U/19" cabinet installation.	130W
Note: The optical module is not included and needs to be purchased		

PACKING LIST

	Content	Qty	Unit
Packing List	6-port full gigabit managed PoE switch	1	SET
	AC Power Cable	1	PC
	RJ45-DB9 Line	1	PC
	Mounting Kit (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. supports DDM function and hot plugging.	PC
Module	2632	SFP optical module, 1.25G, single-mode dual fiber 1310nm, transmission distance: 20km, LC interface. supports DDM function and hot plugging.	PC

	2612-T	SFP optical module, 1.25G, single-mode single fiber TX1310nm/RX1550nm, transmission distance: 20km, LC interface. supports DDM function and hot plugging.	PC
	2613-R	SFP optical module, 1.25G, single-mode single fiber TX1550nm/RX1310nm, transmission distance: 20km, LC interface. supports 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. supports 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. supports DDM function and hot plugging.	PC
Power Module	2633	1.25G SFP optical module transfers to 10/100/1000M RJ45 port.	PC

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RELATED PRODUCT

Model	Description
	L2+ managed PoE fiber switch with 8*10/100/1000M RJ45 ports and
ONV-POE33010PFM	and 2*10/1000M uplink SFP fiber ports. Port 1-8 can support IEEE 802.3
ONV-I OLOGOTOI I W	af/at PoE standard. It built-in 130W power supply and 1U/19" cabinet
	installation.
ONV-POE33148PFM	L2+ managed PoE fiber switch with 10*10/100/1000M RJ45 ports and
	4*10/1000M uplink SFP fiber ports. Port 1-8 can support IEEE 802.3
	af/at PoE standard. It built-in 130W power supply and 1U/19" cabinet
	installation.
ONV-POE33028PFM	L2+ managed PoE fiber switch with 24*10/100/1000M RJ45 ports and
	4*100/1000M 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-POE36028PFM	L2+ managed PoE fiber switch with 24*10/100/1000M RJ45 ports and
	4*1/10G uplink SFP+ fiber ports. Port 1-24 can support IEEE 802.3 af/at
ONV-FOE30020FFW	PoE standard. It built-in 400W power supply and 1U/19" cabinet
	installation.
	L2+ managed PoE fiber switch with 24*10/100/1000M RJ45 ports and
ONLY DOESCOSCDEM	8*100/1000M uplink SFP fiber ports and 4*1/10G uplink SFP+ fiber
ONV-POE36036PFM	ports. Port 1-24 can support IEEE 802.3 af/at PoE standard. It built-in
	400W power supply and 1U/19" cabinet installation.
	L2+ managed PoE fiber switch with 48*10/100/1000M RJ45 ports and
ONV-POE36048PFM	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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