#### **Product Datasheet**

# 6-port Gigabit Managed PoE 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 RSTP (<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

- Support PoE network management function, port power status viewing, etc. through network management configuration.
- Comply with IEEE 802.3 af/at PoE power supply standard, automatically identify PoE equipment for power supply.
- ♦ 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.

#### Strong business processing capability

- ♦ Support IEEE 802.1Q VLAN.
- ♦ Ring network RSTP spanning tree protocol eliminates layer 2 loops and realizes link backup.
- Support IGMP Snooping V1/V2 to meet the needs of multi-terminal high-definition video surveillance and video conferencing access.
- Support QoS, three priority modes based on port, 802.1P-based and DSCP-based, and four queue scheduling algorithms: SP, WRR, and WFQ.
- Static aggregation and dynamic aggregation effectively increase link bandwidth, achieve load balancing, and link backup, and improve link reliability.
- Support ACL to filter data packets by configuring matching rules, processing operations, and time permissions to provide flexible security access control strategies.

#### Security

- Port isolation and storm control.
- ♦ 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 housing, and excellent heat dissipation to ensure the stable operation of the switch.

#### ■ Easy O&M management

- ◇ CPU monitoring, memory monitoring, and Ping detection.
- ♦ 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**

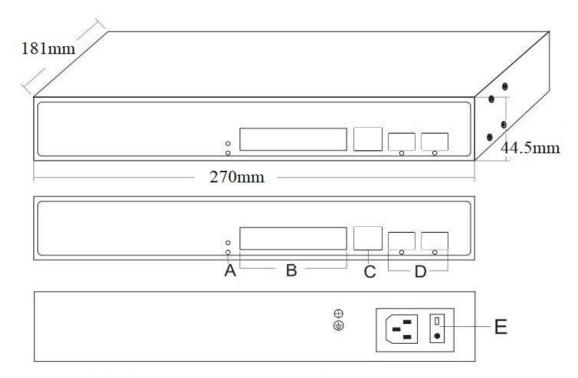
Model	ONV-POE33006PFM	ONV-POE33006PFM-at	
Interface Characteristics			
	1*Console RS232 port (115200,N,8,1)		
Fixed Port	4*10/100/1000Base-T PoE ports (Data /Power)		
	2*100/1000Base-X uplink SFP fiber ports (Data)		
Ethornot Dort	Port 1-4 can support 10/100/1000Base-T(X) auto-sensing, full/ half duplex		
Ethernet Port	MDI/ MDI-X self-adaption		
Twisted Pair	10BASE-T: Cat3,4,5 UTP (≤100 meters)		
Transmission	100BASE-TX: Cat5 or later UTP (≤100 meters)		

	1000BASE-T: Cat5e or later UTP (≤100 meters)	
Optical Fiber Port	Gigabit optical fiber interface, default no include optical module (optional	
	single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)	
Optical Cable/ Distance	Multi-mode: 850nm /0-550m, Single-mode: 1310nm /0-40km, 1550nm	
Optical Cable/ Distance	/0-120km.	
Chip Parameter		
Network Management	L2+	
Туре		
Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX,	
Network Flotocol	IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X, IEEE 802.3x	
Forwarding Mode	Store and Forward (Full Wire Speed)	
Switching Capacity	12Gbps (non-blocking)	
Forwarding Rate 8.93Mpps		
@64byte	o.aanihha	
CPU(Hz)	500M	
DRAM	1G	
Flash	128M	
MAC	8K	
Buffer Memory	4.1M	
LED Indicator	Power: PWR (Green), PoE: PoE (Green), Network: Link (Yellow), Fiber port:	
LED IIIdicator	L/A (Green)	
Reset Switch	Short press for less than 5 seconds to restart the switch.	
Reset Switch	Short press for more than 5 seconds to restore factory settings.	
PoE & Power Supply		
PoE Port	Port 1-4	
DoE Managament	Port PoE working status display, Port PoE output power distribution, PoE	
PoE Management	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 Voltage	65W/ (AC100-240V)	130W /(AC100-240V)	
Power Consumption	Standby<5W, Full load<60W	Standby<6W, Full load<120W	
Power Supply	Built in power supply, AC100~240V 50-60Hz, 1.0A	Built in power supply, AC100~240V 50-60Hz, 2.3A	
Physical Parameter			
Operation TEMP/ Humidity	-20°C~+55°C, 5%~90% RH Non condensing		
Storage TEMP/ Humidity	-40°C~+80°C, 5%~95% RH Non condensing		
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 & Warrant	у		
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 Management I	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		
VLAN	Port-based VLAN (4K), VLAN based on the protocol		
V 27 (14	IEEE802.1q, Port configuration of Access, Trunk, Hybrid		
Port Aggregation	LACP dynamic aggregation, Static aggregation		
Fort Aggregation	Max 3 aggregation groups and 8 ports per group		

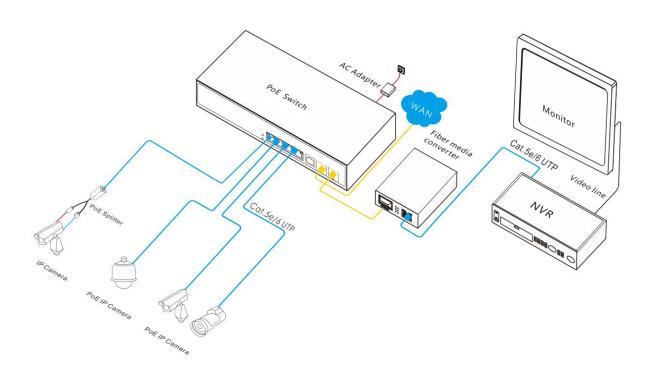
Spanning Tree	RSTP (IEEE 802.1w)
ERPS	ERPSv2
Multicast	Multicast VLAN, User quick exit mechanism, IGMP Snooping v1/v2
Port Mirroring	Bidirectional data mirroring based on port
QoS	802.1p/ DSCP priority mapping, Diff-Serv QoS
	Queue scheduling algorithm (SP, WRR, WFQ)
QOO	Flow-based rate limiting, Flow-based packet filtering
	Flow-based based redirection, 8*Output queues of each port
	Port-based and VLAN-delivered ACL
	The L2-L4 packet filtering function can match the first 80 bytes of the packet
ACL	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 to define the ACL.
	Port isolation, Port broadcast message suppression
Security	Port-based and Mac-based IEEE802.1X certification
	User hierarchical management and password protection
	AAA&RADIUS certification, IP source address protection
DHCP	DHCP Client, DHCP Snooping
	Web network management, Ping detection
	ONV-NMS platform cluster management (LLDP+SNMP)
Management	One click recovery, View CPU real-time utilization status
Ŭ	Link Layer Discovery Protocol (LLDP), System work log
	Console/ Telnet and CLI configuration, SNMP V1/V2/V3
	NTP clock, HTTP 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
	6-port gigabit managed PoE switch	1	SET
	AC Power Cable	1	PC
Packing List	RJ45-DB9 Adapter Cable	1	PC
	Mounting Kit (Hanging Ear)	1	SET
	User Guide	1	PC
	Warranty Card and Certificate of Conformity	1	PC

# **OPTICAL MODULE**

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

# **CONTACT US**



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