Product Datasheet

26-Port Gigabit Uplink Managed PoE Switch

ONV-POE31024PFM



OVERVIEW

The ONV-POE31024PFM series is a Gigabit uplink managed PoE fiber switch independently developed by ONV. It has 24*10/100M RJ45 ports and 2*10/100/1000M RJ45 ports and 2*100/1000M SFP fiber slot ports(combo port), Port 1-24 can support IEEE802.3af/at standard PoE power supply, and single port PoE power reaches 30W. The maximum PoE output power is 400W(at-600W), and each port can realize line-speed forwarding.

The ONV-POE31024PFM series adopts a new generation of high-performance hardware and software platforms to provide flexible and cost-effective 100Mbps access and uplink ports. It supports complete security protection mechanisms, complete ACL/QoS policies, and flexible VLAN functions, and is easy to manage and maintain. As a PoE power supply device, it can automatically detect and identify 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, visual intelligent building intercom through the network cable, and meet the network environment that needs high-density PoE power supply. It is suitable for hotels, campuses, parks, attractions, supermarkets, Factory quarters and small and medium-sized enterprises form a cost-effective network.

FEATURE

■ 100Mbps access, Gigabit (TP/SFP) combo port uplink

- ♦ All series supports "10/100M Ethernet port and Gigabit TP/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 function

- 24*10/100Base-TX RJ45 ports, meeting the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.
- ♦ IEEE 802.3af/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, Voice VLAN, and QinQ configuration.
- 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.
- ♦ ERPS/STP/RSTP/MSTP.

Static and dynamic aggregation.

■ Stable and reliable

- ♦ Low power consumption, no fan mute design, galvanized steel metal casing.
- 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

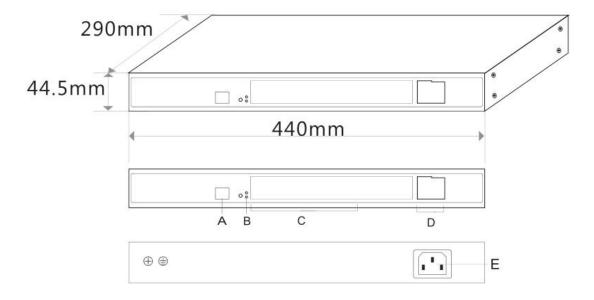
Model	ONV-POE31024PFM	ONV-POE31024PFM-at	
Interface Characteristics			
Fixed Port	24*10/100Base-TX PoE ports (Data/Power)		
	2*10/100/1000Base-T uplink RJ45 ports (Data)		
	2*1000M uplink SFP fiber slot ports (Data)(combo port)		
	1*Console port (command line)		
	Port 1-24 support 10/100Base-TX, port 25-26 support		
Ethernet Port	10/100/1000Base-T, auto-sensing, full/half duplex MDI/MDI-X		
	self-adaption.		

Twisted Pair	10BASE-T: Cat3,4,5 UTP(≤100 meter)	
Transmission	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 ~ 550M, single mode: 1310nm 0 ~ 40KM, 1550nm	
Distance	0 ~ 120KM.	
Chip Parameter		
	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	64Gbps (Non-blocking)	
Forwarding	6.55Mpps	
Rate@64byte		
MAC	16K	
Buffer Memory	4M	
Jumbo Frame	10K	
LED ladicates	Power:PWR(green), Data :Link,Link/Act (yellow), PoE: PoE (green),	
LED Indicator	Speed: SPD (green)	
PoE & Power Supply		
PoE Port	Port 1 to 24 IEEE802.3af/at @ POE	
	PoE working status	
DoE Monogoment	Delay start of power supply	
PoE Management	PoE output priority configuration	
	Scheduling of PoE operation and time	

Power Supply Pin	Default :1/2 (+), 3/6 (-),optional:4/5 (+), 7/8 (-)		
Max Power Per Port	30W; IEEE802.3af/at		
Total PWR / Input Voltage	400W/ (AC100-240V)	600W/ (AC100-240V)	
Power Consumption	Standby<18W, Full load<380W	Standby<25W, Full load<600W	
D 0 1	Built in power supply,	Built in power supply, AC100~240V	
Power Supply	AC100~240V 50-60Hz 5.0A	50-60Hz 6.6A	
Physical Parameter			
Operation TEMP / Humidity	-20~+55°C;5%~90% RH Non condensing		
Storage TEMP / Humidity	-40~+75°C;5%~95% RH Non condensing		
Dimension (L*W*H)	440*290*44.5mm		
Net /Gross Weight	<4.5kg/<5kg		
Installation	Desktop,wall mounted,19 inch 1U cabinet installation		
Certification & Warranty			
Port lightning protection	Port 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, lifetime maintenance.		
Network Managemen	t Features		
	IEEE802.3X (Full-duplex)		
Interface	Broadcast storm control based on port speed		
Interface	The speed limit of the message flow in the access port.		
	The minimum particle size is 64Kbps.		
VLAN	QinQ configuration		
V LAIN	VLAN based on protocol		

	4K VLAN based on port, IEEE802.1q		
Port Aggregation	LACP, Static aggregation		
	Max 12 aggregation groups and 8 ports per group.		
Spanning Tree	STP (IEEE802.1d),RSTP (IEEE802.1w), MSTP (IEEE802.1s)		
Multicast	MLD Snooping v1/v2, Multicast VLAN		
	IGMP Snoopingv1/v2/v3, Max 64 multicast groups, Fast log out		
Image	Bi-directional traffic mirroring supporting the basic port		
	8*Output queues of each port		
QoS	802.1p/DSCP priority mapping		
QUS	Diff-Serv QoS,Priority Mark/Remark		
	Queue Scheduling Algorithm (SP, WRR, SP+WRR)		
	Port-based Issuing ACL		
ACL	L2 to L4 packet filtering, matching first 80 bytes message. Provide ACL		
AGE	based on MAC, Destination MAC address, IP Source, Destination IP, IP		
	Protocol Type, TCP/UDP Port, TCP/UDP Port Range, and VLAN, etc.		
Security	Port isolation, Storm control.		
occurity	IP-MAC-VLAN-Port binding		
DHCP	DHCP Client, DHCP Snooping, DHCP Relay		
Management	NTP		
	SNMP V1/V2C/V3		
	One-key recovery		
	System work log		
	Web Management (HTTPS)		

DIMENSION



A.Console port

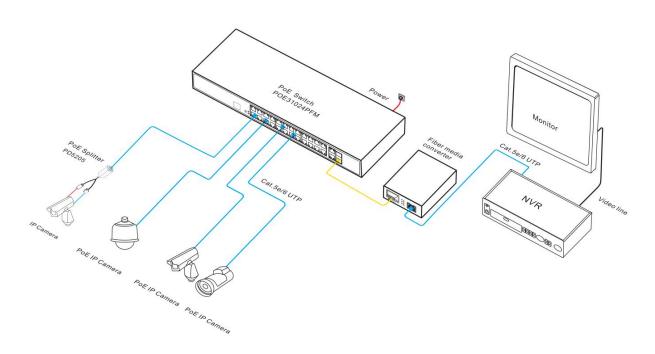
B.Working Indicator

C. 24* 10/100M PoE Ports

D.2*10/100/1000M Combo Ports

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

APPLICATION



ORDERING INFORMATION

Model	Description	
ONV-POE31024PFM	L2 managed PoE fiber switch with 24* 10/100M RJ45 ports and	
	2*10/100/1000M RJ45 ports and 2*100/1000M SFP fiber slot	
	ports(combo port), Port 1-24 can support IEEE802.3af/at PoE standard,	
	Built-in 400W power supply.	
	L2 managed PoE fiber switch with 24* 10/100M RJ45 ports and	
	2*10/100/1000M RJ45 ports and 2*100/1000M SFP fiber slot	
ONV-POE31024PFM-at	ports(combo port), Port 1-24 can support IEEE802.3af/at PoE standard,	
	Built-in 600W power supply.	
Note: The SFP optical module is not included by default and needs to be purchased separately.		

PACKING LIST

PACKING LIST	CONTENT	QTY	UNIT
	26-port gigabit uplink managed PoE switch	1	SET
	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-S C	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-S C	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

CONTACT US



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