Product Datasheet

28-Port 10G Uplink L3 Managed PoE Switch ONV-POE38028PFM



OVERVIEW

The ONV-POE38028PFM is a 10G uplink managed PoE switch independently developed by ONV. It has 24*10/100/1000Base-T RJ45 ports and 4*1/10G SFP+ fiber slot ports. Port 1-24 can support IEEE802.3af/at standard PoE power supply. single port PoE power reaches 30W, and the maximum PoE output power is 400W(at-600W). 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, etc. through a network cable to meet the network environment that needs high-density PoE power supply. It is suitable for hotel, campus, factory dormitory and small and medium-sized enterprise.

The ONV-POE38028PFM has L3 full network management function, supports IPV4/IPV6 management, static route full line rate forwarding, complete 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) and (ITU-T G.8032) ERPS to improve link backup and network reliability. When one-way network fails,

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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, 10G uplink

- All series supports "Gigabit Ethernet port and 10G SFP+ uplink 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

- 24*10/100/1000Base-T RJ45 ports can support POE power supply to meet 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

- \diamond 802.1X authentication.
- \diamond Port isolation, Storm control.
- ◇ IP-MAC-VLAN-Port binding.

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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.
- \diamond IGMP V1/V2 and IGMP Snooping.
- ◇ ERPS/STP/RSTP/MSTP.
- ♦ Static and dynamic aggregation.

Stable and reliable

- \diamond Low power consumption, No fan , galvanized steel casing.
- Self-developed power supply, high redundancy design, providing a long term and stable PoE power output.
- \diamond CCC,CE, FCC, RoHS.
- The user-friendly panel, it can show the device status through the LED indicator of PWR,SYS, Link,L/A ,PoE.

Easy operation and maintenance management

- ♦ Web management, CLI command line (Console, Telnet), SNMP (V1/V2/V3).
- \diamond HTTPS, SSLV3, and SSHV1/V2.
- ◇ RMON, system log, LLDP, and port traffic statistics.
- ◇ CPU monitoring, memory monitoring, Ping test, and cable diagnose.

TECHNICAL SPECIFICATION

ONV-POE38028PFM	ONV-POE38028PFM-at		
Interface Characteristics			
24*10/100/1000Base-T PoE ports	(Data/Power)		
4*1/10G uplink SFP+ fiber slot ports (Data)			
1*Console RS232 port (115200,N	,8,1)		
Port 1-24 can support 10/100/100	0BaseT auto-sensing,Full/half duplex		
MDI/MDI-X self-adaption			
10BASE-T: Cat3,4,5 UTP(≤100 m	neter)		
100BASE-TX: Cat5 or later UTP(≤	≤100 meter)		
1000BASE-T: Cat5e or later UTP((≤100 meter)		
10G SFP+ optical fiber port, defau	ult matching optical modules (optional		
order single-mode / multi-mode, single fiber / dual fiber optical module.			
LC)			
Multi-mode:850nm 0~300M(10G)	,850nm 0~500M (1.25G);		
Single-mode:1310nm 0~40KM,15	50nm 0~120KM.		
Network L3 Management Type			
			IEEE802.3 10BASE-T, IEEE802.3
IEEE802.3u 100Base-TX, IEEE80	02.3ab 1000Base-T		
IEEE802.3z 1000Base-X			
IEEE802.3ae 10GBase-LR/SR			
IEEE802.3x			
Forwarding Mode Store and Forward(Full Wire Speed)			
598Gbps (non-blocking)			
05 23Mpps			
99.20141pp			
	24*10/100/1000Base-T PoE ports A*1/10G uplink SFP+ fiber slot po A*Console RS232 port (115200,N Port 1-24 can support 10/100/100 MDI/MDI-X self-adaption 10BASE-T: Cat3,4,5 UTP(≤100 m 100BASE-T: Cat5 or later UTP(s) 100BASE-T: Cat5e or l		

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MAC	32K		
Buffer Memory	32M		
Jumbo Frame	9.6K		
	Power: PWR (yellow), system:SYS (yellow); network:Link (yellow);		
LED Indicator	PoE: PoE (green); Fiber port : L/A (green)		
Reset Switch	Yes, support one key to restore fa	actory settings	
PoE & Power Supply			
PoE Port	Port 1 to 24		
	PoE working status		
	Delay start of power supply		
DoE Managamant	PoE output priority configuration		
PoE Management	Scheduling of PoE operation and time		
	Total power limit of PoE power supply		
	PoE output power allocation, off& af &at		
Power Supply Pin	Default: 1/2 (+), 3/6 (-)		
Max Power Per Port	30W, IEEE802.3af/at		
Total PWR / Input	400W/ (AC100-240V)	600W/ (AC100-240V)	
Voltage	400W/ (A0100-240V)	00000 (A0100-2400)	
Power Consumption Standby<25W, Full Load<400W Standby<30W, Full Load		Standby<30W, Full Load<600W	
Power Supply	Built-in power supply,	Built-in power supply, AC100~240V	
i ower ouppry	AC100~240V 50-60Hz 5A	50-60Hz 6.6A	
Physical Parameter			
Operation TEMP /	-20~+55°C·5%~90% RH Non cor	ndensina	
Humidity	-20~+55°C;5%~90% RH Non condensing		
Storage TEMP /	40-+90°C·E% -05% DH Non condensing		
Humidity	-40~+80°C;5%~95% RH Non condensing		
Dimension (L*W*H)	440*290*44.5mm		
Net /Gross Weight	<4.4kg / <5.0kg	<4.6kg / <5.3kg	

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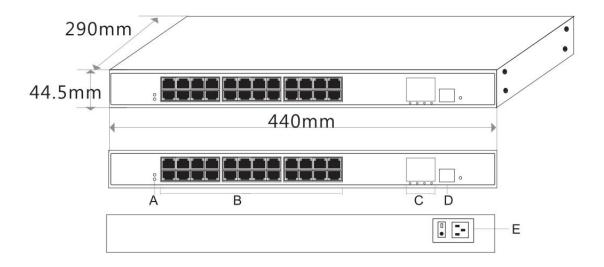
Installation	Desktop type ,19 inch 1U cabinet installation		
Certification & Warranty			
Lightning protection / protection level	Lightning protection: 4KV 8/20us; Protection level: IP30		
Certification	CCC;CE mark, commercial; CE/LVD EN60950;FCC Part 15 Class B; RoHS		
Warranty	3 years, lifelong maintenance.		
Network Managemen	t Features		
	IEEE802.3X (Full-duplex)		
	Port temperature protection setting		
lute of a co	Port green Ethernet Energy-saving setting		
Interface	Broadcast storm control based on port speed		
	The speed limit of the message flow in the access port.		
	The minimum particle size is 64Kbps.		
	L3 network management ,IPV4/IPV6 management		
Layer 3 Features	L3 soft routing forwarding,		
	Static route, Default route @ 128 pcs, APR @ 1024 pcs		
	4K VLAN based on port, IEEE802.1q		
	VLAN based on the protocol		
VLAN	VLAN based on MAC		
	Voice VLAN, QinQ configuration		
	Port configuration of Access, Trunk, Hybrid		
Port Aggregation	LACP, Static aggregation		
	Max 14 aggregation groups and 8 ports per group.		
Spanning Tree	STP (IEEE802.1d),RSTP (IEEE802.1w),MSTP (IEEE802.1s)		
Industrial Ring	G.8032 (ERPS), Recovery time less than 20ms		
Network Protocol	250 Ring at most, Max 1024 devices per ring.		
Multicast	MLD Snooping v1/v2,Multicast VLAN		
manouot	IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out		

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Port Mirroring	Bidirectional data mirroring based on port
QoS	Flow-based Rate Limiting
	Flow-based Packet Filtering
	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 based on port and VLAN
ACL	L2 to L4 packet filtering, matching first 80 bytes message. Provide ACL
AOL	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
occurry	IEEE802.1X & MAC address authentication
	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, DHCP Relay
	One-key recovery
	Cable Diagnose,LLDP
	Web Management (HTTPS)
	NTP,System work log,Ping Test
Management	CPU instant utilization status view
	Console/AUX Modem/Telnet/SSH2.0 CLI
	Download & Management on FTP, TFTP, Xmodem, SFTP, SNMP
	V1/V2C/V3
	ONV NMS - smart network management system platform(LLDP+SNMP)

	Category 5 Ethernet network cable
System	Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42
	or higher, Microsoft Internet Explorer10 or later;
	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

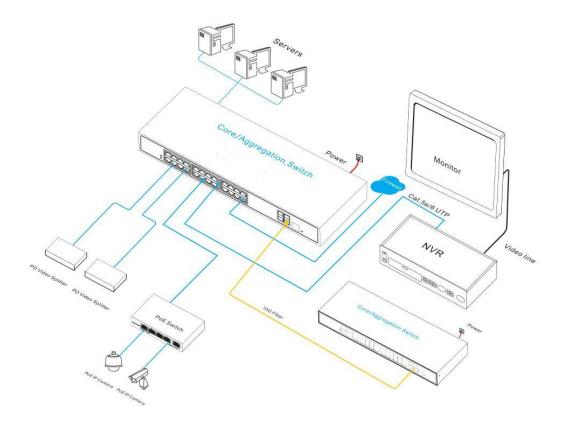
B. 24* 10/100/1000M PoE Ports

C. 4*10G SFP+ Ports

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



APPLICATION



ORDERING INFORMATION

Model	Description	
	L3 managed PoE fiber switch with 24* 10/100/1000M RJ45 ports and	
ONV-POE3802	4*1/10G SFP+ fiber slot ports , Port 1-24 can support IEEE 802.3af/at PoE	
8PFM	standard, Built-in 400W power supply. Support 1U/19 inch rack	
	installation.	
	L3 managed PoE fiber switch with 24* 10/100/1000M RJ45 ports and	
ONV-POE3802	4*1/10G SFP+ fiber slot ports , Port 1-24 can support IEEE 802.3af/at PoE	
8PFM-at	standard, Built-in 600W power supply. Support 1U/19 inch rack	
	installation.	
Note: The SFP optical module is not included by default and needs to be purchased		
separately.		

PACKING LIST

PACKING LIST	CONTENT	QTY	UNIT
	28-Port 10G uplink L3 managed PoE switch	1	SET
	AC Power Cable	1	PC
	RJ45-DB9 Line	1	PC
	Mounting Kits(Hanging Ear)	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

OPTICAL MODULE INFORMATION

Product	Model	Description	Unit
1.25G Optical Module	ONV-2630 ONV-2632	 SFP optical module, 1.25G, multi mode dual fiber 850nm, transmission distance: 550m, LC interface, support DDM function, support hot plug and pull. SFP optical module, 1.25G, single-mode dual fiber 1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull. 	PC PC
	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
	ONV-2613-R	SFP optical module, 1.25G, single-mode single fiberTX1550nm/RX1310nm, transmission distance:20km, LC interface, support DDM function, support	PC

		hot plug and pull.	
		SFP optical module, 1.25G, single-mode single fiber	
	ONV-2612-T-S	TX1310nm/RX1550nm, transmission distance:	PC
	С	20km, SC interface, support DDM function, support	10
		hot plug and pull.	
		SFP optical module, 1.25G, single-mode single fiber	
	ONV-2613-R-S	TX1550nm/RX1310nm, transmission distance:	PC
	С	20km, SC interface, support DDM function, support	10
		hot plug and pull.	
Power	ONV-2633	1.25G SFP optical module transfers to	PC
Module	0111-2000	10/100/1000M RJ45 port.	10
10G		SFP+ optical module,10G Multi-mode dual fiber	
Optical	ONV-6630	850nm, transmission distance: 300m, LC interface,	PC
Module		support DDM function, support hot plug and pull.	
		SFP+ optical module,10G Single-mode dual fiber	
	ONV-7832	1310nm, transmission distance: 20km, LC interface,	PC
		support DDM function, support hot plug and pull.	
		SFP+ optical module,10G Single-mode single fiber	
	ONV-7832-33	TX1330nm/RX1270nm , transmission distance:	PC
	0111-7002-00	20km, LC interface, support DDM function, support	10
		hot plug and pull.	
		SFP+ optical module,10G Single-mode single fiber	
	ONV-7832-27	TX1270nm/RX13300nm , transmission distance:	PC
	01007-21	20km, LC interface, support DDM function, support	10
		hot plug and pull.	

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CONTACT US

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