Product Datasheet

28-port 10G Uplink Managed PoE Switch ONV-POE36028PFM



OVERVIEW

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The ONV-POE36028PFM 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-POE36028PFM has L2+ 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, communication can be quickly restored to ensure important Uninterrupted

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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.

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.
- \diamond 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

Model	ONV-POE36028PFM	ONV-POE36028PFM-at	
Interface Characteristics			
	24*10/100/1000Base-T PoE ports (Data/Power)		
Fixed Port	4*1/10G uplink SFP+ fiber slot ports (Data)		
	1*Console RS232 port (115200,N	,8,1)	
Ethernet Port	Port 1-24 can support 10/100/1000BaseT auto-sensing,Full/half duplex		
	MDI/MDI-X self-adaption		
Twisted Pair	10BASE-T: Cat3,4,5 UTP(≤100 m	eter)	
Transmission	100BASE-TX: Cat5 or later UTP(≤100 meter)		
Transmission	1000BASE-T: Cat5e or later UTP((≤100 meter)	
	10G SFP+ optical fiber port, defau	It matching optical modules (optional	
Optical Fiber Port	order single-mode / multi-mode, single fiber / dual fiber optical module.		
	LC)		
Optical Cable/	Multi-mode:850nm 0~300M(10G)	,850nm 0~500M (1.25G);	
Distance	Single-mode:1310nm 0~40KM,1550nm 0~120KM.		
Chip Parameter			
Network	L2+		
Management Type			
	IEEE802.3 10BASE-T, IEEE802.3	Bi 10Base-T	
Network Protocol	IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T		
	IEEE802.3z 1000Base-X, IEEE80	2.3ae 10GBase-LR/SR, IEEE802.3x	
Forwarding Mode	Store and Forward(Full Wire Spee	ed)	
Switching Capacity	598Gbps (non-blocking)		
Forwarding	•		
Rate@64byte	95.23Mpps		
MAC	32K		
Buffer Memory	32M		

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Jumbo Frame	9.6K		
LED Indicator	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		
PoE Management	PoE output priority configuration		
	Scheduling of PoE operation and time		
	Total power limit of PoE power su	upply	
	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/ (AC100-240V)	000007 (AC 100-240V)	
Power Consumption	Standby<25W, Full Load<400W	Standby<30W, Full Load<600W	
Power Supply	Built-in power supply,	Built-in power supply, AC100~240V	
Fower Supply	AC100~240V 50-60Hz 5A	50-60Hz 6.6A	
Physical Parameter			
Operation TEMP /	-20~+55°C;5%~90% RH Non cor	adonsing	
Humidity	-20°+33 C,3 % 30 % KITNOIT CO	lacitsing	
Storage TEMP /	-40~+80°C·5%~05% DH Non oor	odensing	
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		
Installation	Desktop type ,19 inch 1U cabinet installation		
Certification & Warra	nty		

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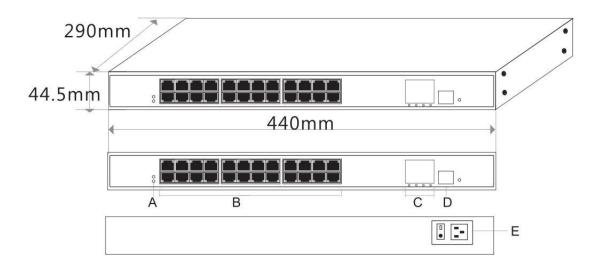
Lightning protection / protection level	Lightning protection: 4KV 8/20us; Protection level: IP30	
Certification	CCC;CE mark, commercial; CE/LVD EN60950;FCC Part 15 Class B; RoHS	
Warranty	3 years, lifelong maintenance.	
Network Management Features		
	IEEE802.3X (Full-duplex)	
	Port temperature protection setting	
Interface	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.	
	L2+ 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	
	LACP, Static aggregation	
Port 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.	
	MLD Snooping v1/v2,Multicast VLAN	
Multicast	IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out	
Port Mirroring	Bidirectional data mirroring based on port	
QoS	Flow-based Rate Limiting	

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	Flow-based Packet Filtering
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	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
	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
Socurity	Mac black holes, IP source protection
Security	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

+86 755 33376606 ONV Optical Network Video Technologies (Shenzhen) Co., Ltd. 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



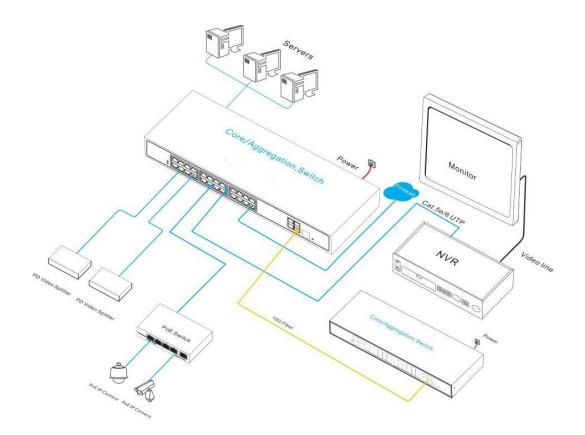
A.Working Indicator

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	
ONV-POE36028PFM	L2+ managed PoE fiber switch with 24* 10/100/1000M RJ45 ports and	
	4*1/10G SFP+ fiber slot ports , Port 1-24 can support IEEE802.3af/at	
	PoE standard, Built-in 400W power supply. Support 1U/19 inch rack	
	installation.	
ONV-POE36028PFM-at	L2+ managed PoE fiber switch with 24* 10/100/1000M RJ45 ports and	
	4*1/10G SFP+ fiber slot ports , Port 1-24 can support IEEE802.3af/at	
	PoE 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 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 Optical		SFP+ optical module,10G Multi-mode dual fiber	
module	ONV-6630	850nm, transmission distance: 300m, LC interface,	PC
		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
		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
		20km, LC interface, support DDM function, support	. 0
		hot plug and pull.	

CONTACT US



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