Product Datasheet

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



OVERVIEW

1

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, communication can be quickly restored to ensure important Uninterrupted communication

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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

- ♦ 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).
- ♦ HTTPS, SSLV3, and SSHV1/V2.
- ◇ RMON, system log, LLDP, and port traffic statistics.
- ◇ CPU monitoring, memory monitoring, Ping test, and cable diagnose.

TECHNICAL SPECIFICATION

Interface Characteristics 24*10/100/1000Base-T PoE ports (Data Fixed Port 4*1/10G uplink SFP+ fiber slot ports (Data	,		
	,		
Fixed Port 4*1/10G uplink SFP+ fiber slot ports (Da	ata)		
1*Console RS232 port (115200,N,8,1)			
Port 1-24 can support 10/100/1000Base	T auto-sensing,Full/half duplex		
MDI/MDI-X self-adaption			
10BASE-T: Cat3,4,5 UTP(≤100 meter) Twisted Pair			
100BASE-TX: Cat5 or later UTP(≤100 m Transmission	neter)		
1000BASE-T: Cat5e or later UTP(≤100	meter)		
10G SFP+ optical fiber port, default mat	ching optical modules (optional		
Optical Fiber Port order single-mode / multi-mode, single f	order single-mode / multi-mode, single fiber / dual fiber optical module.		
LC)			
Optical Cable/ Multi-mode:850nm 0~300M(10G) ,850nm	ode:850nm 0~300M(10G) ,850nm 0~500M (1.25G);		
Distance Single-mode:1310nm 0~40KM,1550nm 0~120KM.			
Chip Parameter			
Network L3			
Management Type			
IEEE802.3 10BASE-T, IEEE802.3i 10Ba	ase-T		
Network Protocol IEEE802.3u 100Base-TX, IEEE802.3ab	IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T		
IEEE802.3z 1000Base-X, IEEE802.3ae	10GBase-LR/SR, IEEE802.3x		
Forwarding Mode Store and Forward(Full Wire Speed)			
Switching Capacity 598Gbps (non-blocking)			
Forwarding			
95.23Mpps Rate@64byte			
MAC 32K			
Buffer Memory 32M			

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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 factory 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 supply			
	PoE output power allocation, off& af &at			
Power Supply Pin	Default: 1/2 (+), 3/6 (-)			
Max Power Per Port	30W, IEEE802.3af/at	30W, IEEE802.3af/at		
Total PWR / Input	400W/ (AC100-240V)	600W/ (AC100-240V)		
Voltage	400W/ (AC100-240V)	000007 (AC 100-240V)		
Power Consumption	nsumption Standby<25W, Full Load<400W Standby<30W, Full Load<600			
Power Supply	Built-in power supply,	Built-in power supply, AC100~240V		
	AC100~240V 50-60Hz 5A	50-60Hz 6.6A		
Physical Parameter				
Operation TEMP /	-20~+55°C;5%~90% RH Non cor	ndensing		
Humidity	20 .00 0,070 0070 1411 1011 001	lacitority		
Storage TEMP /	-40~+80°C;5%~95% RH Non cor	ndensing		
Humidity				
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 & Warranty				

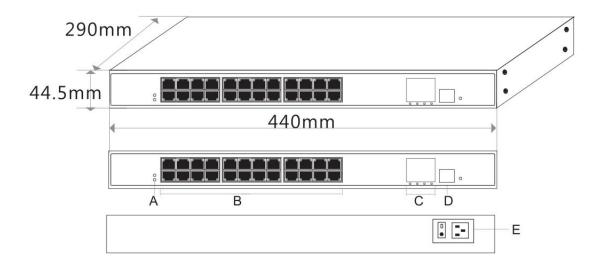
Lightning protection / protection level	Lightning protection: 4KV 8/20us; Protection level: IP30
Certification	CCC;CE mark, commercial; CE/LVD EN60950;FCC Part 15 Class B; RoHS
Warranty	3 years, lifelong maintenance.
Network Managemen	t Features
	IEEE802.3X (Full-duplex)
	Port temperature protection setting
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.
	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
	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

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DIMENSION



A.Working Indicator

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

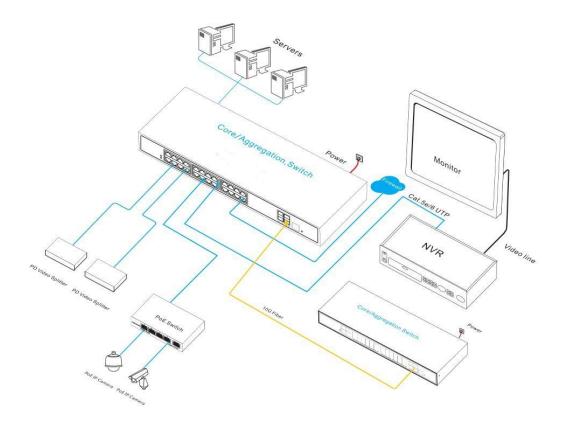
C. 4*10G SFP+ Ports

D. Console Port

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



APPLICATION



ORDERING INFORMATION

Description
L3 managed PoE fiber switch with 24* 10/100/1000M RJ45 ports
and 4*1/10G SFP+ fiber slot ports , Port 1-24 can support IEEE
802.3af/at PoE 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 $4*1/10G$ SFP+ fiber slot ports , Port 1-24 can support IEEE
802.3af/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 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
		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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