Product Datasheet

36-port 10G Uplink L3 Managed POE Switch

(ONV-POE38036PFM)



OVERVIEW

The ONV-POE38036PFM is a 10G uplink L3 managed PoE switch independently developed by ONV. It has 24*10/100/1000Base-T RJ45 ports and 8*100/1000Base-X SFP fiber ports and 4*1/10G SFP+ fiber ports. Port 1-24 can support IEEE802.3af/at standard PoE power supply. single port PoE power reaches 30W. 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-POE38036PFM has L3 network management function, support IPV4/IPV6 management, dynamic routing and 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 for applications. According to the actual application requirements, you can configure ¹⁸⁶ 755 33376606 ONV

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 fiber uplink

- Supports Gigabit Ethernet port and 10G 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

- 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.
- ◇ IEEE802.3af/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.
- ◇ 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.
- \diamond Static and dynamic aggregation.

Stable and reliable

- ♦ Low power consumption, with 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 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

Model	ONV-POE38036PFM	ONV-POE38036PFM-at
Interface Characteris	tics	
	24*10/100/1000Base-T PoE ports	(Data/Power)
Fixed Dert	8*100/1000Base-X SFP fiber slot ports (Data)	
Fixed Port	4*1/10G uplink SFP+ fiber slot po	rts (Data)
	1*Console RS232 port (115200,N	,8,1)
Ethernet Port	10/100/1000Base-T auto-sensing	,Full/half duplex MDI/MDI-X
Ethemet Fort	self-adaption	
Twisted Pair	10BASE-T: Cat3,4,5 UTP(≤100 m	neter)
Transmission	100BASE-TX: Cat5 or later UTP(≤100 meter)
Transmission	1000BASE-T: Cat5e or later UTP	(≤100 meter)
	1/10G SFP+ optical fiber interface	e, default no include optical modules
Optical Fiber Port	(optional order single-mode / mult	i-mode, single fiber / dual fiber optical
	module. LC)	
Optical Fiber Port	Support Turbo overclocking 2.5G	optical module expansion and ring
Expansion	network	
Optical Cable/	Multi-mode: 850nm / 0 ~ 500M, 8	50nm / 0 ~ 300M (10G),
Distance	Single-mode: 1310nm / 0 ~ 40KM	l, 1550nm/ 0 ~ 120KM.
Chip Parameter		
Network	1.2	
Management Type	L3	
	IEEE802.3 10BASE-T, IEEE802.3	Bi 10Base-T
Network Protocol	IEEE802.3u 100Base-TX , IEEE8	02.3ab 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)	

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Forwarding Rate@64byte	107.14Mpps
CPU	500MHz
DRAM	2G
FLASH	128M
MAC	32K
Buffer Memory	32M
Jumbo Frame	9.6K
	System:SYS (Green), Network: Link (Yellow), PoE: PoE (Green), Fiber
LED Indicator	port: L/A (Green)
Reset Switch	Yes, press and hold the switch for 10 seconds and release it to restore
Reset Switch	the factory settings
PoE & Power Supply	
PoE Port	Port 1 to 24 support IEEE802.3af/at PoE standard
	PoE working status
	Delay start of power supply
PoE Management	PoE output priority configuration
	Scheduling of PoE operation and time

PoE Port	Port 1 to 24 support IEEE802.3af/at PoE standard		
	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		
Total PWR / Input			
Voltage	400W/ (AC100-240V)	600W/ (AC100-240V)	
Power Consumption	Standby<25W, Full Load<400W	Standby<30W, Full Load<600W	
Dower Supply	Built-in power supply	Built-in power supply AC100~240V	
Power Supply	AC100~240V 50-60Hz 5.0A	50-60Hz 6.6A	

Physical Parameter

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Operation TEMP / Humidity	-20~+55°C, 5%~90% RH Non condensing		
Storage TEMP / Humidity	-40~+80°C, 5%~95% RH Non condensing		
Dimension (L*W*H)	440*290*44.5mm		
Net /Gross Weight	<4.5kg / <5.0kg	<4.8kg / <5.5kg	
Installation	Desktop type ,19 inch 1U cabinet	installation	
Certification & Warra	nty		
Lightning Protection	Lightning protection: 4KV 8/20us,	, Protection level: IP30	
Certification	CCC, CE mark, commercial, CE/ RoHS	LVD EN60950, FCC Part 15 Class B,	
Warranty	3 years, lifelong maintenance.		
Network Management Features			
	IEEE802.3X (Full-duplex)		
	Port temperature protection settir	ng	
	No connection port automatic sle	ер	
	Port green Ethernet Energy-saving setting		
Interface	Broadcast storm control based or	n port speed	
	SFP+ optical port DDMI real-time	digital diagnosis	
	The speed limit of the message fl	ow in the access port, minimum	
	particle size is 64Kbps.		
	IPV4 Equal Cost Routing		
	NG protocol, maximum 1000 entr	ies	
	ARP protocol, maximum 1000 entries		
	Pingv6, Telnetv6, TFTPv6, DNSv6, ICMPv6		
Layer 3 routing	IPV4/IPV6 VRRP, the maximum group is 255		
	IPV4/IPV6 VLANIF interface supports up to 128		
	IPV4/IPV6 static route/default route supports up to 128 entries		
	IPV4 dynamic routing, RIPv1/v2,	OSPFv2, BGP4+, 4000 routing entries	

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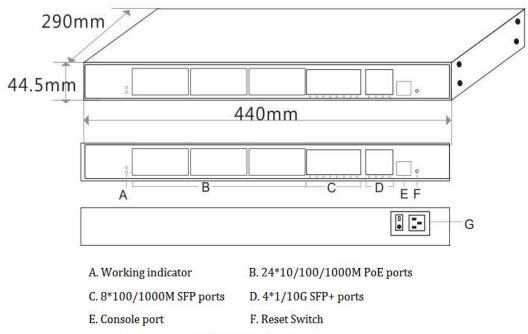
	IPV6 dynamic routing OSPFv3, BGP+, RIPng, IPV6 management, 1000
	routing entries
	L3 network management function, IPV4/IPV6 dual-stack management
	Layer 3 routing and forwarding, support communication between
	different network segments and different VLANs
	Voice VLAN, QinQ configuration
VLAN	4K VLAN based on port, IEEE802.1q
	Port configuration of Access, Trunk, Hybrid.
	VLAN based on MAC, VLAN based on the protocol
Port Aggregation	LACP, Static aggregation
	Max 18 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 250 devices per ring.
Multicast	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
	Flow-based Rate Limiting
	Flow-based Packet Filtering
QoS	8*Output queues of each port
005	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
	L2 to L4 packet filtering, matching first 80 bytes message. Provide ACL
ACL	based on MAC, Destination MAC address, IP Source, Destination IP, IP
	Protocol Type, TCP/UDP Port, TCP/UDP Port Range, and VLAN, etc.
0	IP-MAC-VLAN-Port binding
Security	ARP inspection,Anti-DoS attack

	AAA & DADUUS MAC loorning limit
	AAA & RADIUS,MAC learning limit
	Mac black holes, IP source protection
	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
	Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42
Queters	or higher, Microsoft Internet Explorer10 or later;
System	TCP/IP, network adapter, and network operating system (such as
	Microsoft Windows, Linux, or Mac OS X) installed on each computer in a
	network

Use Po	E, Choos	e ONV	
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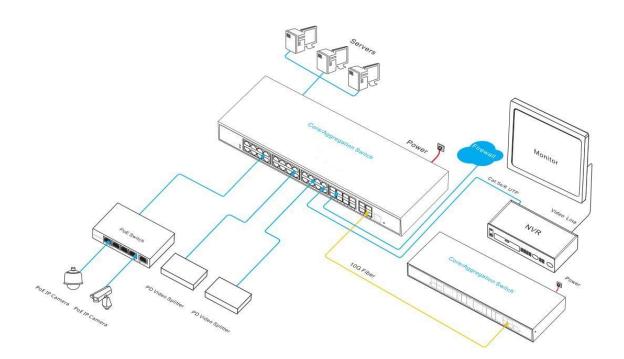
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DIMENSION



G. Power input port AC100- 240V, 50/60Hz

APPLICATION



ORDERING INFORMATION

Model	Description	Built-in Power Supply
ONV-POE38036PFM	L3 managed PoE switch with 24*10/100/1000M RJ45 ports and 8*100/1000M SFP fiber slot ports	400W
	and 4*1/10G SFP+ fiber slot ports. Port 1-24 can	10011
ONV-POE38036PFM-at	support IEEE802.3af/at PoE standard. Support 1U/19 inch rack installation.	600W

Note: The SFP optical module is not included by default and needs to be purchased separately.

PACKING LIST

	CONTENT	QTY	UNIT
	36-port 10G uplink L3 managed PoE switch	1	SET
Packing List	AC Power Cable	1	PC
	RJ45-DB9 Line	1	PC
	Mounting Kits	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

OPTICAL MODULE INFORMATION

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

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	2632	SFP optical module, 1.25G, single-mode dual fiber 1310nm,	PC
	2032	transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC
		SFP optical module, 1.25G, single-mode single fiber	
	2612-T	TX1310nm/RX1550nm, transmission distance: 20km, LC	PC
		interface, support DDM function, support hot plug and pull.	
		SFP optical module, 1.25G, single-mode single fiber	
	2613-R	TX1550nm/RX1310nm, transmission distance: 20km, LC	PC
		interface, support DDM function, support hot plug and pull.	
		SFP optical module, 1.25G, single-mode single fiber	
	2612-T-SC	TX1310nm/RX1550nm, transmission distance: 20km, SC	PC
		interface, support DDM function, support hot plug and pull.	
		SFP optical module, 1.25G, single-mode single fiber	
	2613-R-SC	TX1550nm/RX1310nm, transmission distance: 20km, SC	PC
		interface, support DDM function, support hot plug and pull.	
Power	2633	1.25G SFP optical module transfers to 10/100/1000M RJ45	PC
Module		port.	-
10G		SFP+ optical module,10G Multi-mode dual fiber 850nm,	
Optical	6630	transmission distance: 300m, LC interface, support DDM	PC
Module		function, support hot plug and pull.	
		SFP+ optical module,10G Single-mode dual fiber 1310nm,	
	7832	transmission distance: 20km, LC interface, support DDM	PC
		function, support hot plug and pull.	
		SFP+ optical module,10G Single-mode single fiber	
	7832-33	TX1330nm/RX1270nm , transmission distance: 20km, LC	PC
		interface, support DDM function, support hot plug and pull.	
	7000 07	SFP+ optical module,10G Single-mode single fiber	
	7832-27	TX1270nm/RX13300nm , transmission distance: 20km, LC	PC
		interface, support DDM function, support hot plug and pull.	

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RELATED PRODUCT

Model	Description
ONV-POE38028PFM	L3 managed PoE fiber switch with 24*10/100/1000M RJ45 ports and and 4*1/10G SFP+ fiber ports. Port 1-24 can support IEEE802.3af/at PoE standard. Built-in 400W power supply. Support 1U/19 inch rack installation.
ONV-POE38048PFM	L3 managed PoE fiber switch with 48*10/100/1000M RJ45 ports and 4*1/10G SFP+ fiber ports. Port 1-48 can support IEEE802.3af/at PoE standard. Built-in 600W power supply. Support 1U/19 inch rack installation.

CONTACT US



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