Product Datasheet

24-port Gigabit Managed Industrial PoE Switch

(ONV-IPS33248PFM-4GF)



OVERVIEW

The ONV-IPS33248PFM-4GF is a Gigabit managed industrial PoE fiber switch independently developed by ONV. It has 20*10/100/1000Base-T adaptive RJ45 ports and 4*100/1000Base-X SFP fiber ports. Port 1-8 can support IEEE 802.3 af/at PoE standard and single-port PoE power up to 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, IP cameras, VoIP phones, industrial sensors through a network cable, and meet the network environment that needs a high-density PoE power supply. It is suitable for intelligent transportation, rail transit, electric power, mining, metallurgy, and green energy, industrial scenes such as construction setting up a cost-effective and stable communication network.

The ONV-IPS33248PFM has L2+ network management function to support IPV4/ IPV6

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management, static route forwarding, complete security protection mechanism, complete ACL/ QoS policy, and rich VLAN functions for easy management and maintenance. Supports multiple network redundancy protocols STP/RSTP/MSTP (<50ms) and (ITU-T G.8032) ERPS (<20ms) to improve link backup and network reliability. Communication can be quickly restored when a one-way network fails Ensure uninterrupted communication for important applications. According to application needs, PoE power supply management can be performed through Web, CLI, SNMP, Telnet, etc., and application configurations such as port management, routing address management, port flow control, VLAN division, IGMP, and security policies can be performed.

FEATURE

Gigabit access, uplink SFP fiber port

- ♦ Support non-blocking wire-speed forwarding.
- ♦ Support full-duplex based on IEEE 802.3x and half-duplex based on Backpressure.
- Support Gigabit RJ45 port and SFP fiber port combination, which enables users to flexibly build networking to meet the needs of various scenarios.

Smart PoE power supply

- PoE network management, realize PoE port power allocation, priority setting, port power status viewing, time scheduling, etc.
- Comply with IEEE 802.3 af/at PoE standard, automatically identify PoE devices for power supply, and not damage non-PoE devices.
- The PoE port supports the priority mechanism. When the remaining power is insufficient, the power of the high-priority port is given priority to avoid overloading of the device.
- 8*10/100/1000Base-T RJ45 ports support PoE power, meeting the PoE power
 requirements of security monitoring, industrial automation systems, wireless coverage
 and other scenarios.

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Strong business processing ability

- Support ERPS ring network and STP/ RSTP/ MSTP to eliminate layer 2 loops and realize link backup.
- Support IEEE802.1Q VLAN, Users can flexibly divide VLAN, Voice VLAN, and QinQ configuration according to their needs.
- Support static and dynamic aggregation to effectively increase link bandwidth, realize load balancing, link backup, and improve link reliability.
- Support QoS, port-based, 802.1P-based, and DSCP-based three priority modes and four queue scheduling algorithms: Equ, SP, WRR, and SP+WRR.
- Support ACL to filter data packets by configuring matching rule processing operations and time permissions, and provide flexible security access control policies.
- Support IGMP V1/V2/V3 multicast protocol, IGMP Snooping meets multi-terminal high-definition video surveillance and video conference access requirements.

Security

- ♦ Support port isolation and port broadcast storm suppression.
- ◇ IP+MAC+port+VLAN quadruple flexible combination binding function.
- S02.1X authentication provides authentication functions for LAN computers and controls the authorization status of controlled ports according to the authentication results.

Stable and reliable

- \diamond CCC, CE, FCC, RoHS.
- The user-friendly pane can show the device status through the LED indicator of PWR, SYS, Link, and PoE.
- Low power consumption, no fan, Aluminum alloy housing, and excellent heat dissipation to ensure the stable operation of the switch.

Easy O&M management

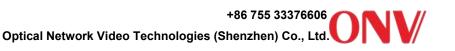
 Support CPU monitoring, memory monitoring, Ping detection, and cable length detection.



- HTTPS, SSLV3, SSHV1/V2, and other encryption methods are more secure in management.
- RMON, system log, and port traffic statistics are convenient for network optimization and transformation.
- LLDP is convenient for the network management system to query and judge the communication status of the link.
- Support diverse management and maintenance methods such as Web network management, CLI command line (Console, Telnet), SNMP (V1/V2/V3), Telnet, etc.

Model	ONV-IPS33248PFM-4GF		
Interface Characteristics			
	Power off alarm switch port (FAULT)		
	1*RS232 Console port(115200,N,8,1)		
Fixed Port	8*10/100/1000Base-T PoE ports (Data/ Power)		
	12*10/100/1000Base-T uplink RJ45 ports (Data)		
	4*100/1000Base-X uplink SFP fiber ports (Data)		
	2 sets V+, V- redundant DC power interface (6P Phoenix terminal)		
Ethernet Port	Port 1-12 can support 10/100/1000Base-T auto-sensing, full/ half duplex		
Ethemet Port	MDI/ MDI-X self-adaption		
Twisted Pair	10BASE-T: Cat3,4,5 UTP (≤100 meters)		
Transmission	100BASE-TX: Cat5 or later UTP (≤100 meters)		
	1000BASE-T: Cat5e or later UTP (≤100 meters)		
Optical Fiber Port	Gigabit optical fiber interface, default matching optical module (optional		
Optical riber ron	single-mode/ multi-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/ 0-550m, Single-mode: 1310nm/ 0-40km, 1550nm/		

TECHNICAL SPECIFICATION



Chip ParameterNetwork Managemul TypeL2+Network ProtocolEEE 802.3 10BASE-T, IEEE 802.3 10Base-T, IEEE 802.3 10DBase-T, IEEE 8	Distance	0-120km		
TypeL2+Network ProtocolIEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-T, IEEE 802.3u 104	Chip Parameter			
Network ProtocolIEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X, IEEE 802.3xForwarding ModeStore and Forward (Full Wire Speed)Switching Capacity52Gbps (non-blocking)Forwarding Rate @64byteB:71Mpps@64byte1:0CPU(Hz)416MDRAM16FLASH128MMAC8KBuffer Memory9.6KJunbo Frame9.6KRest SwitchYes, press and hold the switch for 10 seconds and release it to restore the factory settingsPoE A Power SupplyPort 1-8Poer Supply For Hold power limit configuration Port PoE contput priority configuration Port PoE output power distribution, PoE not/off, af/at power distribution, Point PoE output power distribution, PoE not/off, af/at power distribution Point PoE output power distribution, PoE not/off, af/at power distribution Point PoE output power distribution, PoE not/off, af/at power distribution Point PoE output power distribution, PoE not/off, af/at power distribution Point PoE output power distribution, PoE not/off, af/at power distribution Point PoE output power distribution, PoE not/off, af/at power distribution Point PoE output power distribution, PoE not/off, af/at power distribution Point PoE output power distribution, PoE not/off, af/at power distribution Point PoE output power distribution, PoE not/off, af/at power distributionPower Rouper Poer12 (+), 36 (-)Power Rouper Poer10 (+), 40 (-)Power Poer Poer10 (+), 40 (-)Power Poer Poer10 (+), 40 (-)Power Poer Poer10 (+), 40 (-)Power Poer10 (+), 40 (-)Poer10 (+), 40 (-) <tr< td=""><td></td><td colspan="2">L2+</td></tr<>		L2+		
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	Power Supply Pin	1/2 (+), 3/6 (-)		
Power Consumption Standby<15W Full load af<120W at<240W	Max Power Per Port	30W, IEEE 802.3 af/at		
	Power Consumption	Standby<15W, Full load af<120W, at<240W		

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Working Voltage	DC48-57V, 6P industrial Phoenix terminal, support anti-reverse protection.		
Power Supply	No, optional 48V/120W or 48V/240W industrial power supply		
Physical Parameter			
Operation Temp/ Humidity	-40~+80°C, 5%~90% RH Non condensing		
Storage Temp/ Humidity	-40~+85°C, 5%~95% RH Non condensing		
Dimension (L*W*H)	166*150*90mm		
Net /Gross Weight	2.1kg/ 2.3kg		
Installation	Desktop, 35mm DIN Rail		
Certification & Warranty			
Lightning Protection	Protection level: IP40 Lightning protection: 6KV 8/20us IEC61000-4-3 (RS):10V/m (80~1000MHz) FCC Part 15/CISPR22 (EN55022): Class B IEC61000-6-2 (Common Industrial Standard) IEC61000-4-9 (Pulsed magnet field): 1000A/m IEC61000-4-10 (Damped oscillation): 30A/m, 1MHz IEC61000-4-12/18 (Shockwave): CM 2.5kV, DM 1kV IEC61000-4-4(EFT): Power cable:±4kV, Data cable: ±2kV IEC61000-4-16 (Common-mode transmission): 30V, 300V, 1s IEC61000-4-2 (ESD): ±8kV contact discharge, ±15kV air discharge IEC61000-4-6 (Radio frequency transmission): 10V(150kHz~80MHz) IEC61000-4-8 (Power frequency magnetic field):100A/m, 1000A/m, 1s-3s IEC61000-4-5 (Surge): Power cable: CM±4kV/ DM±2kV, Data cable: ±4kV		
Mechanical Properties	IEC60068-2-6 (Anti Vibration), IEC60068-2-32 (Free Fall), IEC60068-2-27 (Anti Shock)		
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B, RoHS		

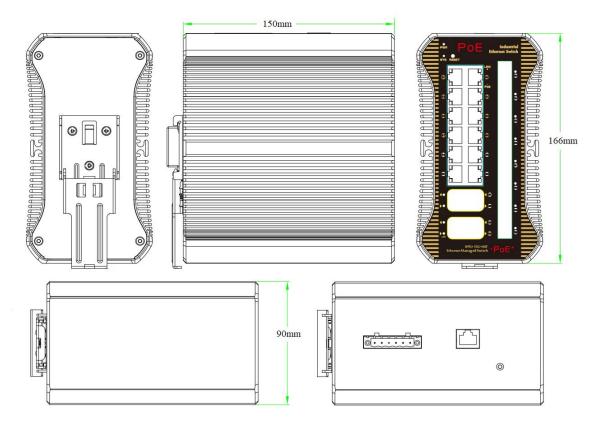
Warranty	5 years, lifelong maintenance.	
Network Management Feature		
	Port temperature protection settings	
	IEEE 802.3x flow control (Full duplex)	
Interface	Broadcast storm suppression based on port rate	
Interface	Port EEE Green Ethernet energy-saving configuration	
	Limit the speed of the message traffic at the inbound and outbound ports	
	mini granularity is 64Kbps	
	ARP protocol, max 1024 entries	
	Static route/default route, max 128 entries	
L3 Feature	L2+ network management function, IPV4/IPV6 dual-stack management	
	L3 routing forwarding, communication between different network segments	
	and different VLAN	
	Port configuration of Access, Trunk, Hybrid.	
VLAN	VLAN based on MAC, VLAN based on the protocol	
	(4K) VLAN based on port, IEEE802.1q, Voice VLAN, QinQ configuration	
Port Aggregation	LACP, Static aggregation, Max 12 aggregation groups and max 8 ports per	
T OIT Aggregation	group.	
Spanning Tree	STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)	
Industrial Ring	G.8032 (ERPS) ring network recovery time less than 20ms, 250 Ring at	
Network Protocol	most, Max 250 devices per ring.	
Multicast	MLD Snooping, Multicast VLAN, User quick log out, IGMP Snooping	
Mullicast	v1/v2/v3 and 1024 multicast groups at most	
Port Mirroring	Bidirectional data mirroring based on port	
	Queue Scheduling Algorithm (SP, WRR, SP+WRR)	
QoS	Flow-based Rate Limiting, Flow-based redirection	
000	Flow-based Packet Filtering, 8*Output queues of each port	
	802.1p/ DSCP priority mapping, Diff-Serv QoS, Priority Mark/ Remark	
ACL	ACL distribution based on port and VLAN	

	L2-L4 packet filtering function, matching the first 80 bytes message, and	
	provides ACL definitions based on source MAC address, destination MAC	
	address, source IP address, destination IP address, IP protocol type,	
	TCP/UDP port, TCP/UDP port range, VLAN, etc.	
	Port-based IEEE802.1X authentication	
	SSL guarantees data transmission security	
	Quad binding function of IP+MAC+VLAN+ports	
	Port isolation, ARP message speed limit function	
Coourity	MAC address learning limit, MAC address black hole	
Security	Anti DoS attack, Port broadcast message suppression	
	Hierarchical user management and password protection	
	SSH 2.0 provides a secure encrypted channel for user login	
	Host data backup mechanism, ARP intrusion detection function	
	IP source address protection, AAA & RADIUS & TACACS+ certification	
DHCP	DHCP Client, DHCP Snooping, DHCP Server, DHCP Relay	
	Web network management (https)	
	Link Layer Discovery Protocol(LLDP)	
	Link Layer Discovery Protocol(LLDP) Viewing CPU Instant Utilization Status	
Managana		
Management	Viewing CPU Instant Utilization Status	
Management	Viewing CPU Instant Utilization Status NTP clock, One click restore, SNMP V1/V2/V3	
Management	Viewing CPU Instant Utilization Status NTP clock, One click restore, SNMP V1/V2/V3 Cable status check, Ping detection, System work log	
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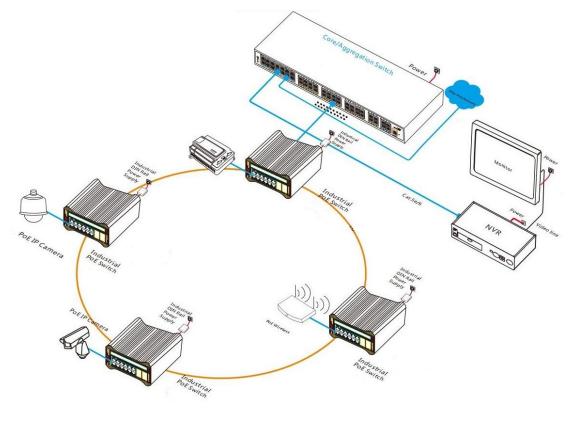




DIMENSION



APPLICATION



ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS33248PFM-4GF	L2+ managed industrial PoE fiber switch with 20*10/100/1000M RJ45 ports and 4*100/1000M uplink SFP fiber ports. Port 1-8 can support IEEE 802.3 af/at PoE standard. It support dual DC power supply input and DIN Rail mounting.	120W/240W

Note: The optical module and power supply are not included and need to be purchased.

PACKING LIST

Packing List	Content	Qty	Unit
	24-port gigabit managed industrial PoE switch	1	SET
	RJ45-DB9 Adapter Cable	1	PC
	User Guide	1	PC
	Warranty Card and Certificate of Conformity	1	PC

OPTICAL MODULE

Product	Model	Description	Unit
1.25G	2630-G	Industrial SFP optical module, 1.25G multi-mode dual fiber 850nm, transmission distance: 550m, LC interface, supports DDM function and hot plugging.	PC
Optical		Industrial SFP optical module, 1.25G single-mode dual fiber	
Module	2632-G	1310nm, transmission distance: 20km, LC interface,	PC
		supports DDM function and hot plugging.	
	2612-T-G	Industrial SFP optical module, 1.25G single-mode single	PC
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10

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	fiber TX1310nm/ RX1550nm, transmission distance: 20km,	
	LC interface, supports DDM function and hot plugging.	
	Industrial SFP optical module, 1.25G single-mode single	
2613-R-G	fiber TX1550nm/ RX1310nm, transmission distance: 20km,	PC
	LC interface, supports DDM function and hot plugging.	
	Industrial SFP optical module, 1.25G single-mode single	
2612-T-SC-G	fiber TX1310nm/ RX1550nm, transmission distance: 20km,	PC
	SC interface, supports DDM function and hot plugging.	
	Industrial SFP optical module, 1.25G single-mode single	
2613-R-SC-G	fiber TX1550nm/ RX1310nm, transmission distance: 20km,	PC
	SC interface, supports DDM function and hot plugging.	

POWER SUPPLY

Product	Model	Description	Unit
130W Desktop Power Adapter	GWS-AP130-52	Desktop 130W single set of output power adapter Input Voltage: AC100V~240V 50-60Hz, 2.3A Output Voltage: DC52V, 2.5A Operation Temperature: -20°C to +65°C	PC
250W Desktop Power Adapter	GWS-AP250-52	Desktop 250W single set of output power adapter Input Voltage: AC100V~240V 50-60Hz, 5.0A Output Voltage: DC52V, 5.0A Operation Temperature: -20°C to +65°C	PC
120W DIN Rail Industrial Power Supply	GWS-DP120-48	DIN Rail 120W single set of output power supply Input Voltage: AC100V~240V 50-60Hz, 2.3A Output Voltage: DC48V, 2.5A Operation Temperature: -40°C to +70°C	PC
240W DIN Rail Industrial Power	GWS-DP240-48	DIN Rail 240W single set of output power supply Input Voltage: AC100V~240V 50-60Hz, 3.0A	PC



Supply

Output Voltage: DC48V, 5.0A

Operation Temperature: -40 °C to +70 °C

RELATED PRODUCT

Model	Description
	L2+ managed industrial PoE fiber switch with 4*10/100/1000M
ONV-IPS33084PFM	RJ45 ports and 4*100/1000M uplink SFP fiber ports. Port 1-4 can
0117-1533004FF101	support IEEE 802.3 af/at PoE standard. It support dual DC power
	supply input and DIN Rail mounting.
	L2+ managed industrial PoE fiber switch with 8*10/100/1000M
ONV-IPS33108PFM	RJ45 ports and 2*100/1000M uplink SFP fiber ports. Port 1-8 can
0110-1-355100-1101	support IEEE 802.3 af/at PoE standard. It support dual DC power
	supply input and DIN Rail mounting.
	L2+ managed industrial PoE fiber switch with 10*10/100/1000M
ONV-IPS33148PFM	RJ45 ports and 4*100/1000M uplink SFP fiber ports. Port 1-8 can
	support IEEE 802.3 af/at PoE standard. It support dual DC power
	supply input and DIN Rail mounting.
	L2+ managed industrial PoE fiber switch with 8*10/100/1000M
ONV-IPS33168PFM	RJ45 ports and 8*100/1000M uplink SFP fiber ports. Port 1-8 can
	support IEEE 802.3 af/at PoE standard. It support dual DC power
	supply input and DIN Rail mounting.
	L2+ managed industrial PoE fiber switch with 12*10/100/1000M
ONV-IPS33168PFM-4GF	RJ45 ports and 4*100/1000M uplink SFP fiber ports. Port 1-8 can
	support IEEE 802.3 af/at PoE standard. It support dual DC power
	supply input and DIN Rail mounting.

CONTACT US

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