#### **Product Datasheet**

# 6-port Gigabit L2+ Managed Industrial PoE Switch

(ONV-IPS33064PFM)



### **OVERVIEW**

The ONV-IPS33064PFM is a Gigabit L2+ managed industrial PoE fiber switch independently developed by ONV. It has 4\*10/100/1000M adaptive RJ45 ports and 2\*100/1000M uplink SFP fiber ports. Port 1-4 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 power-compliant devices that meet the standard and supply power through the network cable. It can supply power to PoE terminal equipment such as wireless AP, IP camera, VoIP, and industrial sensors through the network cable, and meet the network environment that needs a high-density PoE power supply. It is suitable for intelligent transportation, rail transit, power industry, mining, petroleum, and industrial scenes such as shipping, metallurgy, and green energy construction forming a cost-effective, stable, and reliable communication network.

The ONV-IPS33064PFM has L2+ network management function, supports IPV4/ IPV6 management, static route forwarding, security protection mechanism, ACL/QoS policy, and VLAN, and is easy to manage and maintain. Support multiple network redundancy protocols STP/RSTP/MSTP(<50ms) and (ITU-T G.8032) ERPS(<20ms) to improve link

backup and network reliability. When a 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 multiple application services such as PoE power management, port traffic control, VLAN division, and SNMP through the Web network management mode.

### **FEATURE**

### ■ Gigabit access, uplink SFP fiber port

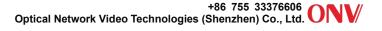
- Support non-blocking wire-speed forwarding.
- ♦ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.
- Support Gigabit RJ45 port and SFP port combination, which enables users to flexibly build networking to meet the needs of various scenarios.

#### ■ 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.
- ◇ PoE port support priority. When the remaining power is insufficient, priority is given to ensuring the power supply of high-priority ports to avoid equipment overload.
- 4\*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.

### Strong business processing capability

- ♦ IEEE802.1Q VLAN, flexible VLAN division, Voice VLAN, and QinQ configuration.
- ♦ Ring network STP/RSTP/MSTP spanning tree protocol eliminates layer 2 loops and realizes link backup.
- ♦ QoS, port-based, 802.1P-based, and DSCP-based three priority modes and four queue scheduling algorithms: Equ, SP, WRR, and SP+WRR.



- ACL to filter data packets by configuring matching rule processing operations and time permissions, and provide flexible security access control policies.
- Static aggregation and dynamic aggregation effectively increase link bandwidth, achieve load balancing, and link backup, and improve link reliability.
- Support IGMP V1/V2 multicast protocol and IGMP Snooping to meet the needs of multi-terminal high-definition video surveillance and video conferencing access.

### Security

- Port isolation and storm control.
- ♦ Support IP+MAC+port+VLAN quadruple flexible combination binding function.
- Support 802.1X authentication to provide authentication functions for LAN computers, and control the authorization status of controlled ports according to the authentication results.

#### Stable and reliable

- ♦ CCC, CE, FCC, RoHS.
- The user-friendly panel can show the device status through the LED indicator of PWR, SYS, Link, L/A, and PoE.
- ♦ Low power consumption, no fan, aluminum shell, and excellent heat dissipation to ensure the stable operation of the switch.

#### **■** Easy O&M management

- ♦ CPU monitoring, memory monitoring, Ping detection, and cable detection.
- ♦ HTTPS, SSLV3, SSH V1/V2, and other encryption methods make management more secure.
- RMON, system logs, and port traffic statistics facilitate network optimization and transformation.
- ♦ LLDP facilitates the network management system to query and determine the communication status of the link.
- Web network management, CLI (Console, Telnet), SNMP (V1/V2/V3), Telnet and other diversified management and maintenance methods.



# **TECHNICAL SPECIFICATION**

Model	ONV-IPS33064PFM	
Interface Characteri	Interface Characteristics	
	1*Console port (115200, N, 8,1)	
Fixed Port	4*10/100/1000Base-T PoE ports (Data/Power)	
Fixed Fort	2*100/1000Base-X uplink SFP fiber ports (Data)	
	2 set of V+, V- redundant DC power ports (5 Pin Phoenix terminal)	
Ethernet Port	Port 1-4 can support 10/100/1000Base-T auto-sensing, full/ half duplex MDI/	
Linemetroit	MDI-X self-adaption	
Twisted Pair	10BASE-T: Cat3,4,5 UTP (≤100 meters)	
Transmission	100BASE-TX: Cat5 or later UTP (≤100 meters)	
Transmission	1000BASE-T: Cat5e or later UTP (≤100 meters)	
Ontical Fiber Part	Gigabit optical fiber port, default no include optical module (optional	
Optical Fiber Port	single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)	
Optical Cable/	Multi-mode: 850nm/ 0-500m, Single-mode: 1310nm/ 0-40km, 1550nm/	
Distance	0-120km	
Chip Parameter		
Network		
Management Type	L2+	
National Dustant	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX,	
Network Protocol	IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X, IEEE 802.3x	
Forwarding Mode	Store and Forward (Full Wire Speed)	
Switching Capacity	16Gbps (non-blocking)	
Forwarding Rate	8.93Mpps	
@64byte		
CPU	416MHz	
DRAM	1G	
FLASH	128M	

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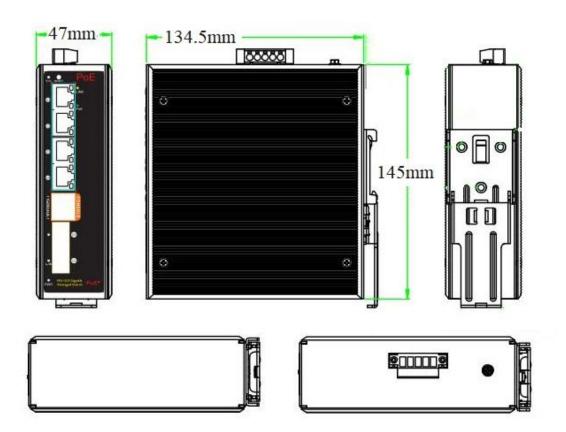
MAC	8K			
Buffer Memory	4M			
Jumbo Frame	9.6K			
LED Indicator	Power/ System: SYS (Green) , Network: Link (Yellow), Fiber port: L/A (Green),			
LED Indicator	PoE: PoE (Green)			
Reset Switch	Yes, (Press and hold for 10 seconds and release, the switch will restore the			
Neset Owiton	factory settings)			
PoE & Power Supply	y			
PoE Port	Port 1-4			
	Port PoE working status display			
	Port PoE output priority configuration			
PoE Management	PoE power supply total power limit configuration			
	Power delay start, PoE work and time scheduling			
	Port PoE output power distribution, PoE on/off, af/at power distribution			
Power Supply Pin	1/2(+) 3/6(-)			
Max Power Per Port	30W, IEEE 802.3 af/at			
Power	Standby<8W, Full load af<60W, at<120W			
Consumption	Standby Town, I dil load al Toom, at 120m			
Working Voltage	DC48-57V, 5 Pin industrial Phoenix terminal, support anti-reverse protection.			
Power Supply	No, optional 48V/60W or 48V/120W industrial power supply			
<b>Physical Parameter</b>				
Operation TEMP/	-40~+80°C, 5%~90% RH Non condensing			
Humidity	-40~+60 C, 5%~90% KH Noti condensing			
Storage TEMP/	-40~+85°C, 5%~95% RH Non condensing			
Humidity	-40°+65 C, 576°-9576 INT Notificon defining			
Dimension (L*W*H)	145*134.5*47mm			
Net /Gross Weight	0.7kg / 0.9kg			
Installation	Desktop, 35mm DIN Rail			
Certification & Warr	anty			

	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
Linktoin o Books skipp	IEC61000-4-10 (Damped oscillation): 30A/m 1MHz
Lightning Protection	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	IEC60068-2-6 (Anti vibration), IEC60068-2-27 (Anti shock)
Properties	IEC60068-2-32 (Free fall)
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B, RoHS
Warranty	5 years, lifelong maintenance.
Network Manageme	nt Feature
	Port temperature protection setting
	IEEE802.3x flow control (Full duplex)
Interface	Port green Ethernet Energy-saving setting
interrace	Broadcast storm control based on port speed
	The speed limit of the message flow in the access port, mini particle size is
	64Kbps.
	ARP protocol max 1024 entries
L3 Feature	Static routing/ default routing max 128 entries
LO I GAIUIE	L2+ network management, IPV4/IPV6 dual stack management
	L3 routing and forwarding, and communication between different network

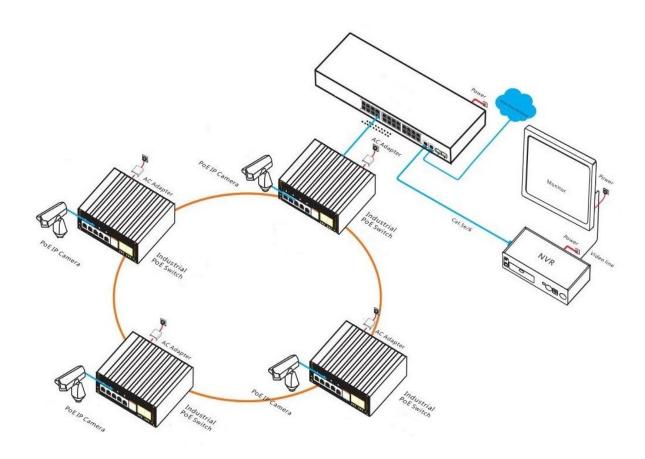
Access, Trunk, and Hybrid port configurations  Port-based VLAN (4K), IEEE802.1q, QinQ configuration  Voice VLAN, Protocol-based VLAN, MAC address-based VLAN  Port Aggregation  LACP, Static aggregation  Max 3 aggregation groups and 8 ports per group.  Spanning Tree STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)  Ring Network G.8032 (ERPS), Recovery time less than 20ms  Protocol 250 Ring at most, Max 250 devices per ring.  MLD Snooping, Multicast VLAN  IGMP Snooping v1/v2/v3, Max 1024 multicast groups, Fast log out  Port Mirroring Bidirectional data mirroring based on port  Flow-based Rate Limiting, Flow-based redirection  Queue Scheduling Algorithm (SP, WRR, SP+WRR)  Flow-based Packet Filtering, 8*Output queues of each port  802.1p/ DSCP priority mapping, Diff-Serv QoS, Priority Mark/ Remark  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.
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port, TCP/UDP port range, VLAN, etc.
Mac black holes, IP source protection
IEEE802.1X & MAC address authentication
Broadcast storm control, Backup for host datum
Security SSH 2.0, SSL, Port isolation, ARP message speed limit
User hierarchical management and password protection
Anti-DoS attack, AAA & RADIUS & TACACS+ certification
IP-MAC-VLAN-Port binding, ARP inspection, MAC learning limit
DHCP Client, DHCP Snooping, DHCP Server, DHCP Relay

	Web network management (https)
	Link Layer Discovery Protocol(LLDP)
	Viewing CPU Instant Utilization Status
	NTP clock, One click restore, SNMP V1/V2/V3
Management	Cable status check, Ping detection, System work log
	ONV NMS platform cluster management (LLDP+SNMP)
	Console/ AUX Modem/ Telnet/ CLI command line configuration
	FTP, TFTP, Xmodem, SFTP file upload and download management
	Web browser: Mozilla Firefox 2.5 or higher, Google Chrome V42 or higher,
	Cat5 and above Ethernet cable
System	TCP/IP, network adapter, and network operating system (such as Microsoft
	Windows, Linux, Mac OS X) installed on each computer in the network Cat5
	and above Ethernet cable

## **DIMENSION**



## **APPLICATION**



### **ORDERING INFORMATION**

Model	Description	Recommended Power Supply
	L2+ managed industrial PoE fiber switch with	
	4*10/100/1000M RJ45 ports and 2*100/1000M	
ONV-IPS33064PFM	uplink SFP fiber ports. Port 1-4 can support IEEE	60W/120W
	802.3 af/at PoE standard. It can support dual DC	
	power input and DIN rail mounting.	
Note: The optical module and power supply are not included and need to be purchased.		e purchased.

# **PACKING LIST**

	Content	Qty	Unit
	6-port gigabit managed industrial PoE switch	1	SET
Packing List	RJ45-DB9 Line	1	PC
	User Guide	1	PC
	Warranty Card	1	PC

# **OPTICAL MODULE**

Product	Model	Description	Unit
	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
	2632-G	Industrial SFP optical module, 1.25G single-mode dual fiber 1310nm, transmission distance: 20km, LC interface. supports DDM function and hot plugging.	PC
1.25G	2612-T-G	Industrial SFP optical module, 1.25G single-mode single fiber  TX1310nm/ RX1550nm, transmission distance: 20km, LC interface. supports DDM function and hot plugging.	PC
Optical Module	2613-R-G	Industrial SFP optical module, 1.25G single-mode single fiber  TX1550nm/ RX1310nm, transmission distance: 20km, LC interface. supports DDM function and hot plugging.	PC
	2612-T-G-SC	Industrial SFP optical module, 1.25G single-mode single fiber  TX1310nm/ RX1550nm, transmission distance: 20km, SC interface. supports DDM function and hot plugging.	PC
	2613-R-G-SC	Industrial SFP optical module, 1.25G single-mode single fiber  TX1550nm/ RX1310nm, transmission distance: 20km, SC interface. supports DDM function and hot plugging.	PC

Power	2633	1.25G SFP optical module transfers to 10/100/1000M RJ45	PC	
Module	2300	port.		

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## **POWER SUPPLY**

Product	Model	Description	Unit
65W Desktop Power Adapter	GWS-AP65-52	Desktop 65W single set of output power adapter Input Voltage: AC100V~240V 50-60Hz, 1.1A Output Voltage: DC52V, 1.25A Operation Temperature: -20℃ to +65℃	PC
110W Desktop Power Adapter	GWS-AP110-52	Desktop 110W single set of output power adapter Input Voltage: AC100V~240V 50-60Hz, 2.0A Output Voltage: DC52V, 2.0A Operation Temperature: -20℃ to +65℃	PC
60W DIN Rail Industrial Power Supply	GWS-DP60-48	DIN Rail 60W single set of output power supply Input Voltage: AC100V~240V 50-60Hz, 1.0A Output Voltage: DC48V, 1.25A Operation Temperature: -40℃ to +70℃	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, 1.5A  Output Voltage: DC48V, 2.5A  Operation Temperature: -40℃ to +70℃	PC

# **RELATED PRODUCT**

	Model	Description
	ONV-IPS33084PFM	L2+ managed industrial PoE fiber switch with 4*10/100/1000M RJ45
		ports and 4*100/1000M uplink SFP fiber ports. Port 1-4 can support
		IEEE 802.3 af/at PoE standard. It can support dual DC power input
		and DIN rail mounting.

ONV-IPS33108PFM	L2+ managed industrial PoE fiber switch with 8*10/100/1000M RJ45
	ports and 2*100/1000M uplink SFP fiber ports. Port 1-8 can support
	IEEE 802.3 af/at PoE standard. It can support dual DC power input
	and DIN rail mounting.
ONV-IPS33168PFM	L2+ managed industrial PoE fiber switch with 8*10/100/1000M RJ45
	ports and 8*100/1000M uplink SFP fiber ports. Port 1-8 can support
	IEEE 802.3 af/at PoE standard. It can support dual DC power input
	and DIN rail mounting.
ONV-IPS33168PFM-4GF	L2+ managed industrial PoE fiber switch with 12*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 can support dual DC
	power input and DIN rail mounting.
ONV-IPS36168PFM	L2+ managed industrial PoE fiber switch with 12*10/100/1000M
	RJ45 ports and 4*1/10G uplink SFP+ fiber ports. Port 1-8 can
	support IEEE 802.3 af/at PoE standard. It can support dual DC

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power input and DIN rail mounting.

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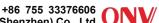
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