### **Product Datasheet**

# 16-port 10G Uplink Managed Industrial PoE Switch

### (ONV-IPS56168PFM)



### **OVERVIEW**

The ONV-IPS56168PFM is a 10G uplink managed industrial PoE switch independently developed by ONV. It has 8\*10/100/1000Base-T adaptive RJ45 ports and 4\*100/1000Base-X SFP fiber ports and 4\*1/10G SFP+ fiber ports. Port 1-8 can support the IEEE 802.3 af/at PoE standard, and the single-port max PoE power is 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 APs, IP cameras, VoIP phones, and industrial sensors through a network cable. It also meets the network environment that needs a high-density PoE power supply. It is suitable for intelligent transportation, rail transit, electric power, mining, metallurgy, green energy, and industrial scenes such as



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construction, setting up a cost-effective and stable communication network.

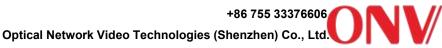
The ONV-IPS56168PFM has L3 network management function, supports IPV4/IPV6 management, dynamic routing forwarding, complete security protection mechanism, complete ACL/QoS policy, rich VLAN functions, and is easy to manage and maintain. Supports multiple network redundancy protocols STP/ RSTP/ MSTP (<50ms) and (ITU-T G.8032) ERPS (<20ms) to improve link backup and network reliability. When a one-way network fails, communication can be quickly restored to ensure important, uninterrupted application communication. According to the application needs, port management, routing address management, port flow control, VLAN division, IGMP, security policy, and other application services are configured through network management methods such as Web, CLI, SNMP, Telnet, etc.

### FEATURE

- Gigabit access, uplink 1/10G 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 1/10G uplink 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, 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.



#### Strong business processing capability

- 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+MAC binding, IP+MAC+port binding functions.
- ♦ Support port isolation and port broadcast storm suppression.
- 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 panel can show the device status through the LED indicator of PWR, SYS, Link, L/A, and PoE.
- Low power consumption, 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

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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-IPS56168PFM		
Interface Characteristics			
	1*Console port (115200, N, 8,1)		
	Power failure alarm switch port (FAULT)		
Fixed Port	4*1/10G uplink SFP+ fiber ports (Data)		
T Ked Fort	4*100/1000Base-X uplink SFP fiber ports (Data)		
	8*10/100/1000Base-T PoE ports (Data/ Power)		
	2*DC48-57V input ports (support reverse connection protection)		
Ethernet Port	Port 1-8 can support 10/100/1000Base-T(X) auto-sensing, full/ half duplex		
Linemet Fort	MDI/ MDI-X self-adaption		
	10BASE-T: Cat3,4,5 UTP (≤100 meters)		
Twisted Pair Transmission	100BASE-TX: Cat5 or later UTP (≤100 meters)		
	1000BASE-T: Cat5e/6 or later UTP (≤100 meters)		
Optical Eibor Port	Default no include optical module (optional single-mode/ multi-mode,		
Optical Fiber Port	single fiber/ dual fiber optical module. LC)		
Optical Fiber Port	Turbe overeleaking 2.5C entired module expansion and ring network		
Expansion	Turbo overclocking 2.5G optical module expansion and ring network		

# **TECHNICAL SPECIFICATION**





Optical Cable/ Distance	Multi-mode: 850nm/ 0-550m(1G), 850nm/ 0-300m (10G), Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km			
Chip Parameter				
Network Management Type	L3			
Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X, IEEE 802.3ae 10GBase-SR/LR, IEEE 802.3x			
Forwarding Mode	Store and Forward (Full wire speed)			
Switching Capacity	128Gbps (non-blocking)			
Forwarding Rate@64byte 77.38Mpps				
CPU(Hz)	800M			
DRAM 1G				
FLASH	128M			
MAC	16K			
Buffer Memory	12M			
Jumbo Frame	12K			
LED Indicator	System: SYS (Green), Network: Link (Yellow), PoE: PoE (Green), Fiber port: L/A (Green)			
Reset Switch	Yes, press and hold the switch for 10 seconds and release it to restore the factory settings			
PoE& Power Supply				
PoE Port	Port 1-8			
PoE Management	Port PoE real-time load power display, Port PoE output on/off, PoE work and time scheduling			
Power Supply Pin	1/2(+) 3/6 (-)			
Max Power Per Port	30W, IEEE802.3af/at			
Power Consumption	Standby<13W, full load af<120W, at<240W			
Input Voltage/ Interface	DC48-57V, 6P industrial Phoenix terminal, support anti-reverse protection.			
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Power Supply	No, optional 48V/120W or 48V/240W industrial power supply			
Physical Parameter				
Operation Temp/ Humidity	-40~75°C, 5%~90% RH non condensing			
Storage Temp/ Humidity	-40~80°C, 5%~95% RH non condensing			
Dimension (L*W*H)	166*150*75mm			
Net /Gross Weight	1.8kg/ 2.1kg			
Installation	Desktop, 35mm DIN Rail			
Certification& Warranty				
	IEC61000-4-3 (RS):10V/m (80-1000MHz)			
	FCC Part 15/CISPR22 (EN55022): Class A			
	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): CM2.5kV, DM1kV			
Lightning Protection	Protection level: IP40, Lightning protection: 6KV 8/20us			
	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), IEC60068-2-27 (Anti Shock),			
Mechanical Properties	IEC60068-2-32 (Free Fall)			
Certification	CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class A, RoHS			
Warranty	5 years, lifelong maintenance.			
Network Management Fea	ture			
	Port real-time flow management (Flow Interval)			
Interface	Broadcast storm suppression based on port rate			
	SFP optical module DDMI real-time digital diagnosis			

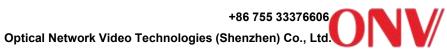
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IEEE802.3x flow control (Full duplex), Port exception protection mechanismLimit the rate of packet traffic on incoming and outgoing ports, the mini granularity is 16Kbps and max 1GbpsIPV4 equal cost routingNG protocol max 1000 entriesARP protocol max 1000 entriesVRRP for IPV4/IPV6, up to 255 entriesPingv6, Telnetv6, TFTPv6, DNSv6, ICMPv6VLANIF interfaces for IPV4/IPV6, up to 64 entriesIPV4 dynamic routing, RIPv1/v2, OSPFv2, routing 2000 entriesL3 reuting and forwarding, support communication between different tart outing and forwarding, support communication between different network segments and different VLANVLANVLANVLANPort configuration of Access, Trunk, Hybrid, IEEE 802.1qVLANProtocol-based VI AN_MAC address-based VI AN_OIDO configuration		Port EEE Green Ethernet Energy-Saving configuration and status view		
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L3 routing and forwarding, support communication between different      network segments and different VLAN      Port configuration of Access, Trunk, Hybrid, IEEE 802.1q      VLAN    Voice VLAN, GVRP VLAN protocol, Port-based VLAN (4K)		IPV4 dynamic routing, RIPv1/v2, OSPFv2, routing 2000 entries		
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VLAN Voice VLAN, GVRP VLAN protocol, Port-based VLAN (4K)		network segments and different VLAN		
		Port configuration of Access, Trunk, Hybrid, IEEE 802.1q		
Protocol-based V/LAN_MAC address-based V/LAN_OinO configuration	VLAN	Voice VLAN, GVRP VLAN protocol, Port-based VLAN (4K)		
T TOLOCOPUASED VERTIN, MIRO AUDIESS-DASED VERTIN, WING CONTIGUIATION		Protocol-based VLAN, MAC address-based VLAN, QinQ configuration		
LACP dynamic aggregation, Static aggregation, Max 8 aggregation groups	Dort Aggregation	LACP dynamic aggregation, Static aggregation, Max 8 aggregation groups		
Port Aggregation and max 8 ports per group.	Port Aggregation	and max 8 ports per group.		
STP BPDU Guard, BPDU filtering and BPDU forwarding		STP BPDU Guard, BPDU filtering and BPDU forwarding		
Spanning Tree STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)	Spanning Tree	STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)		
ERPS Ring Network ERPS ring network, Recovery time less than 20ms, ITU-T G.8032	ERPS Ring Network	ERPS ring network, Recovery time less than 20ms, ITU-T G.8032		
Multicast VLAN, User quick log out, MLD Snooping, MVR (Multicast VLAN		Multicast VLAN, User quick log out, MLD Snooping, MVR (Multicast VLAN		
Multicast Registration), IGMP Snooping v1/v2/v3 and 1024 multicast groups at most	Mullicast	Registration), IGMP Snooping v1/v2/v3 and 1024 multicast groups at most		
Bidirectional traffic mirroring for basic ports	Mirroving	Bidirectional traffic mirroring for basic ports		
Mirroring one-to-multiple mirroring, supports up to 4 port sessions	wintoring	one-to-multiple mirroring, supports up to 4 port sessions		
QoS Flow-based Rate Limiting, Flow-based redirection		Flow-based Rate Limiting Flow-based redirection		

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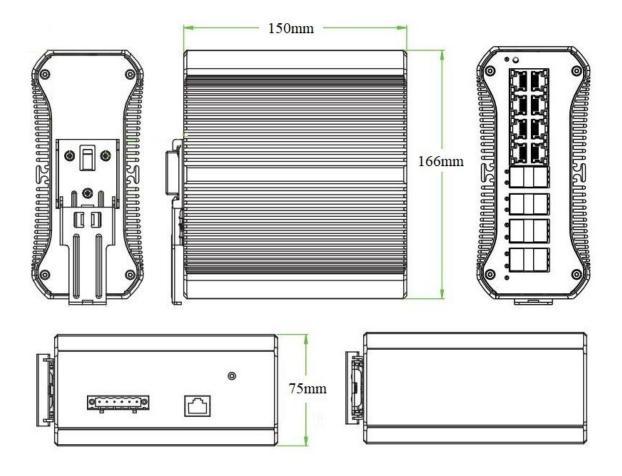
	Queue Scheduling Algorithm (SP, WRR, SP+WRR)		
	Flow-based Packet Filtering, 8*Output queues of each port		
	802.1p/DSCP priority mapping, Diff-Serv QoS, Priority Mark/Remark		
	ACL is issued based on port and VLAN		
	L2-L4 packet filtering function can match the first 80 bytes of the message		
ACL	and provide ACL definition based on source MAC address, destination		
	MAC address, source IP address, destination IP address, IP protocol type,		
	TCP/UDP port range, VLAN, etc.		
	Port based IEEE802.1X authentication		
	Port isolation, IP Source Guard function		
	SSL guarantees data transmission security		
	Quad binding function of IP+MAC+VLAN+ports		
	MAC address learning limit, MAC address black hole		
Convitu	Anti DoS attack, Port broadcast message suppression		
Security	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, ARP message speed limit function		
	Support AAA, RADIUS, TACACS+ authentication (only supports		
	authentication, not authorization and accounting)		
DHCP	DHCP Client, DHCP Snooping, DHCP Server		
	System work log, Link Layer Discovery Protocol		
	HTTP, TFTP file upload and download management		
	NTP clock, Cable length detection, SNMP V1/V2/V3		
Management	Ping detection, Web network management (HTTPS)		
	ONV-NMS platform cluster management (LLDP+SNMP)		
	One click recovery, View CPU real-time utilization status		
	Console/ SSH/ Telnet/ CLI command line configuration		
System	Web browser: Mozilla Firefox 2.5 or higher, Google Chrome V42 or higher,		

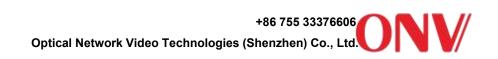


Cat5 and above Ethernet cable

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

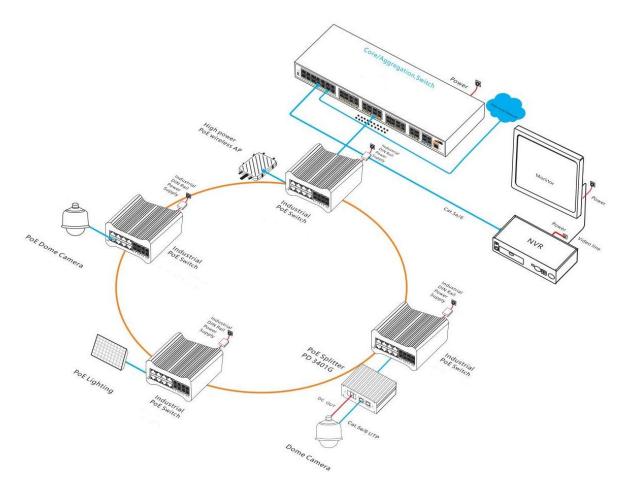
# DIMENSION







### **APPLICATION**



### **ORDERING INFORMATION**

Model	Description	Recommended Power Supply
ONV-IPS56168PFM	L3 managed industrial PoE switch with 8*10/100/1000M RJ45 ports and 4*100/1000M uplink SFP fiber ports and 4*1/10G uplink SFP+ fiber ports. Port 1-8 can support IEEE802.3af/at PoE standard. It can support dual DC redundant power input (Phoenix terminal connection) and DIN rail mounting.	120W/240W

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

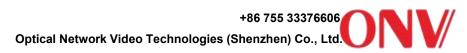


# **PACKING LIST**

Packing List	Content	Qty	Unit
	16-port 10G uplink 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
	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-SC-G	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-SC-G	Industrial SFP optical module, 1.25G single-mode single fiber TX1550nm/ RX1310nm, transmission distance: 20km, SC interface, supports DDM function and hot plugging.	PC



10G Optical Module	6630-G	Industrial SFP+ optical module, 10G multi-mode dual fiber 850nm, transmission distance: 300m, LC interface, supports DDM function and hot plugging.	PC
	7832-G	Industrial SFP+ optical module, 10G single-mode dual fiber 1310nm, transmission distance: 20km, LC interface, supports DDM function and hot plugging.	PC
	7832-33-G	Industrial SFP+ optical module, 10G single-mode single fiber TX1330nm/ RX1270nm, transmission distance: 20km, LC interface, supports DDM function and hot plugging.	PC
	7832-27-G	Industrial SFP+ optical module, 10G single-mode single fiber TX1270nm/ RX1330nm, transmission distance: 20km, LC interface, supports DDM function and hot plugging.	PC

# **POWER SUPPLY**

Product	Model	Description	Unit
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~70°C	PC
240W DIN Rail Industrial Power Supply	GWS-DP240-48	DIN Rail 240W single set of output power supply Input Voltage: AC100V-240V 50-60Hz, 3.0A Output Voltage: DC48V, 5.0A Operation Temperature: -40°C~70°C	PC

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