Product Datasheet

6-port Gigabit Easy Managed Industrial PoE Switch (ONV-IPS5064PFM)



OVERVIEW

The ONV-IPS5064PFM is a Gigabit Easy managed industrial PoE fiber switch independently developed by ONV. It has 4*10/100/1000Base-T adaptive RJ45 ports and 2*100/1000Base-X 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 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 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-IPS5064PFM can support the ONV-NMS management platform and cloud

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management APP, which can realize network topology management, link aggregation, port management, PoE management, remote operation and maintenance, etc. It has high reliability, easy installation and maintenance, a fast switching function, and multiple access ports, suitable for access to LAN devices of various sizes.

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 port combination, which enables users to flexibly build networking to meet the needs of various scenarios.

Smart PoE power supply

- Comply with IEEE 802.3 af/at PoE standard, automatically identify PoE devices for power supply, and not damage non-PoE devices.
- Support remote PoE management function, realize remote power on/off of PoE port, check port power status, query PoE port fault, etc.
- 4*10/100/1000Base-T RJ45 ports can support PoE power to meet the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.

Extreme Optimization, minimalist application

- ◇ Real-time fault alarm and fault location.
- ◇ Remote upgrade, remote restart, and factory reset.
- Local platform, cloud platform, and mobile APP operation and maintenance management.
- Visualized network topology management, VLAN division, QoS, link aggregation, ring network management, port mirroring, port control, and bandwidth management.
- According to industry application requirements, complex network management configurations are discarded, practical network management functions are retained, and network deployment and centralized operation and maintenance can be quickly

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realized through the operation and maintenance platform.

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, no fan, Aluminum alloy housing, and excellent heat dissipation to ensure the stable operation of the switch.

TECHNICAL SPECIFICATION

Model	ONV-IPS5064PFM			
Interface Characteristics				
	1*DC5521 power socket			
Fixed Port	4*10/100/1000Base-T PoE ports (Data/ Power)			
Tixed Fort	2*100/1000Base-X uplink SFP fiber ports (Data)			
	2 sets V+, V- redundant DC power port (3P phoenix terminal)			
Ethernet Port	Port 1-4 support 10/100/1000Base-T auto-sensing, full/ half duplex MDI/			
LuemerFort	MDI-X self-adaption			
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP (≤100 meters)			
	100BASE-TX: Cat5 or later UTP (≤100 meters)			
	1000BASE-T: Cat5e or later UTP (≤100 meters)			
Optical Fiber Port	Gigabit optical fiber interface, default no included optical module (optional			
Optical Fiber Fort	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 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 802.3x			
Forwarding Mode	Store and Forward (Full wire-speed)			



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Switching Capacity	12Gbps (non-blocking)			
Forwarding Rate @64byte	8.93Mpps			
MAC	2К			
Buffer Memory	2M			
Jumbo Frame	9.2K			
LED Indicator	Power/ System: SYS (Green), Network: Link (Yellow), PoE: PoE(Green) Fiber port: L/A (Green)			
Reset Switch	Press and hold for 6 seconds and release to restore the factory settings. Short press 2 times (1 second interval) to switch to the unmanaged state			
PoE & Power Supply				
PoE Port	Port 1-4			
PoE Management	Port PoE output on/off, Port PoE real-time power view			
Power Supply Pin	1/2 (+) 3/6 (-)			
Max Power Per Port	30W, IEEE 802.3 af/at			
Power Consumption	Standby<6W, Full load af<60W, at<120W			
Power Input Port	DC44-56V, 3P industrial Phoenix terminal, support anti-reverse protection.			
Power Supply No, optional 48V/60W or 48V/120W industrial power supply				
Physical Parameter				
Operation TEMP/ Humidity	-40~+75°C, 5%~90% RH Non condensing			
Storage TEMP/ Humidity	-40~+85°C, 5%~95% RH Non condensing			
Dimension (L*W*H)	98*88*30mm			
Net /Gross Weight	0.25kg/ 0.35kg			
Installation	Desktop, 35mm DIN Rail			
Certification & Warra	nty			
Lightning Protection	Protection level: IP30 Lightning protection: 6KV 8/20us			

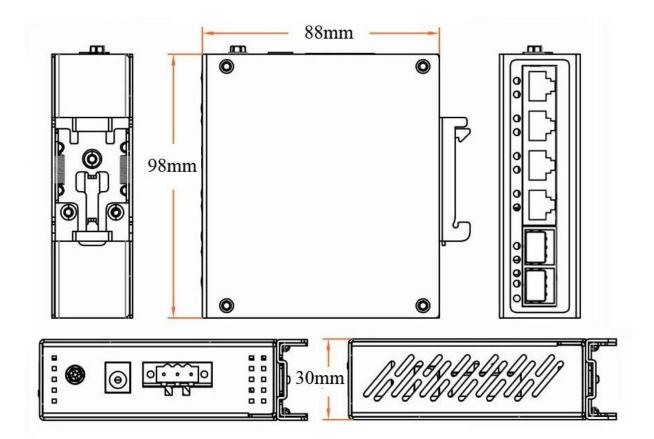
	IEC61000-4-3 (RS):10V/m (80~1000MHz)			
	FCC Part 15/CISPR22 (EN55022): Class B			
	IEC61000-6-2 (Common Industrial Standard)			
	IEC61000-4-9 (Pulsed magnet field):1000A/m			
	IEC61000-4-10 (Damped oscillation): 30A/m, 1MHz			
	IEC61000-4-12/18 (Shockwave): CM 2.5kV, DM 1kV			
	IEC61000-4-4(EFT): Power 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	IEC60068-2-6 (Anti Vibration), IEC60068-2-32 (Free Fall), IEC60068-2-27			
Properties	(Anti Shock)			
	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B,			
Certification	RoHS			
Warranty	5 years, lifelong maintenance.			
Network Managemen	t Feature			
	EEE Energy-saving and green Ethernet function			
Interface	Port traffic statistics, IEEE 802.3x flow control (Full-duplex)			
	Port status display, Port duplex/ negotiation rate configuration			
VLAN	Port-based IEEE802.1Q VLAN configuration (4K)			
Port Aggregation	Static aggregation			
Loop Protection	Loop protection function			
Multicast	IGMP Snooping v1/v2, Max 256 multicast groups			
Port Mirroring	Bidirectional data mirroring based on port			
0.05	Diff-Serv QoS, Priority Mark/ Remark			
QoS	8*Output queues of each port, 802.1p/DSCP priority mapping			
Security	Broadcast storm control, Port isolation, Port speed limit			

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DHCP	DHCP Snooping		
	Mobile APP operation and maintenance management		
Management	One-key recovery, Cable Diagnose, Web Management (https)		
	ONV-NMS platform management (Local platform/ Cloud platform)		
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		

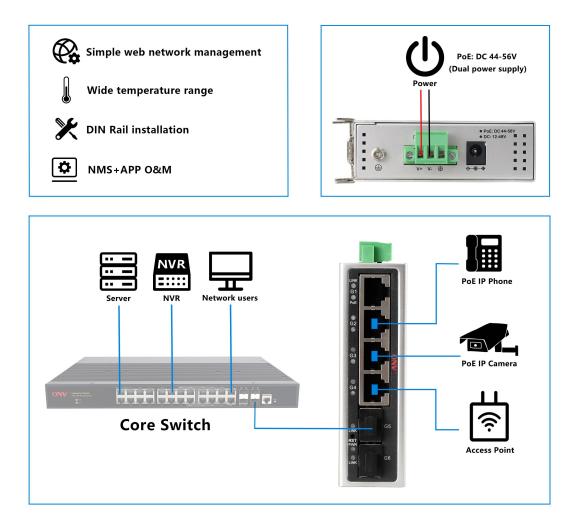
DIMENSION





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APPLICATION



ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS5064PFM	Easy managed industrial PoE switch with	
	4*10/100/1000M RJ45 ports and 2*100/1000M	
	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.



PACKING LIST

	Content	Qty	Unit
Packing List	6-port gigabit Easy managed industrial PoE switch	1	SET
	User Guide	1	PC
	Warranty Card and Certificate of Conformity	1	PC

OPTICAL MODULE

Product	Model	Description	Unit
	2630-G	Industrial optical module, 1.25G multi-mode dual fiber 850nm, transmission distance: 550m, LC interface, supports DDM function and hot plugging.	PC
	2632-G	Industrial 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 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 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 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 optical module, 1.25G single-mode single fiber TX1550nm/ RX1310nm, transmission distance: 20km, SC interface, supports DDM function and hot plugging.	PC



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°C to +65°C	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, 2.15A Operation Temperature: -20°C to +65°C	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°C to +70°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

CONTACT US

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