Product Datasheet

6-port Full Gigabit Easy Managed Industrial Ethernet Switch (ONV-IPS5064FM)



OVERVIEW

The ONV-IPS5064FM is a full Gigabit Easy managed industrial Ethernet 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. Each port can support wire-speed forwarding. The ONV-IPS5064FM supports Web management, ONV-NMS management platform, and cloud management APP management, which can realize functions such as security network topology management, link aggregation, port management, port mirroring, and remote operation and maintenance. The switch has high reliability, is easy to install and maintain, has fast switching functions and multiple access ports, and is suitable for accessing LAN devices of various sizes. ONV-IPS5064FM follows industrial product design and materials, and its shell is made of aluminum alloy. It has excellent industrial site environment adaptability (mechanical stability, climate environment adaptability, electromagnetic environment adaptability, etc.). The protection level reaches IP40, dual redundancy power supply, low power consumption, no fan, 5-year warranty. It is suitable for establishing cost-effective, stable, and reliable communication networks in industrial

scenarios such as intelligent transportation, rail transportation, power industry, mining, petroleum, shipping, metallurgy, and green energy construction.

FEATURE

■ Gigabit access, SFP fiber port uplink

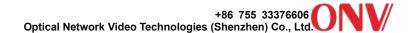
- Support non-blocking wire-speed forwarding.
- ♦ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.
- Support Gigabit Ethernet port and Gigabit SFP port combination, which enables users to flexibly build networking to meet the needs of various scenarios.

■ 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 the application requirements of the industry, we have abandoned the complicated network management configuration while retaining the practical network management functions. Through the operation and maintenance platform, network deployment and centralized operation and maintenance can be quickly realized.

■ Stable and reliable

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



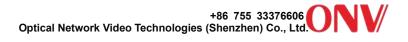
TECHNICAL SPECIFICATION

Model	ONV-IPS5064FM		
Interface Characteristics			
Fixed Port	4*10/100/1000Base-T RJ45 ports (Data)		
	2*100/1000Base-X uplink SFP ports (Data)		
	2 groups of 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/		
Luiemet Fort	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)		
CED Clot Dowt	Gigabit optical fiber interface, default no included optical module (optional		
SFP Slot Port	single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)		
	Multi-mode: 850nm/ 0-550m		
Optical Cable	Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km.		
Chip Parameter			
Network	Cinania wak natwalik managamant alawa niatfarm managamant		
Management Type	Simple web network management, cloud platform management		
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX		
Network Protocol	IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x		
Forwarding Mode	Store and Forward(Full wire-speed)		
Switching Capacity	12Gbps		
Forwarding	0.0014		
Rate@64byte	8.93Mpps		
MAC	2K		
Buffer Memory	2Mb		
Jumbo Frame	9.2KB		
LED Indicator	Power/ System: SYS (Green), Network: Link (Yellow), Fiber port: L/A		

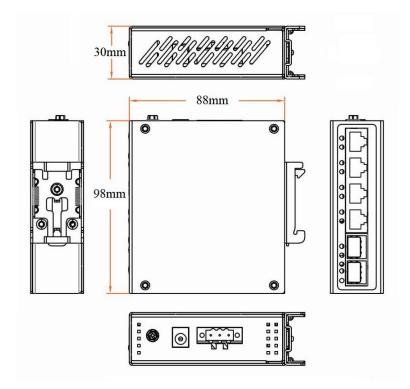
	(Green)		
Power Supply			
Total power/ Input	5W/12-48VDC		
Voltage			
Power	Standby AM Full load ASM		
Consumption	Standby<4W, Full load<6W		
Interface	3 Pin industrial Phoenix terminal, support anti-reverse protection.		
Power Supply	No, optional 48V/12W or 48V/24W industrial power supply		
Physical Parameter			
Operation TEMP/	-40~+75°C, 5%~90% RH Non condensing		
Humidity	-40°+73 C, 376°3076 INT Non condensing		
Storage TEMP/	-40~+85°C, 5%~95% RH Non condensing		
Humidity	-40 100 C, 570 9570 Kit Non Condensing		
Dimension (L*W*H)	98*88*30mm		
Net /Gross Weight	<0.25kg / <0.35kg		
Installation	Desktop, 35mm DIN rail		
Certification & War	ranty		
	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)		
Lightning	IEC61000-4-9 (Pulsed magnet field):1000A/m		
Protection	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)		

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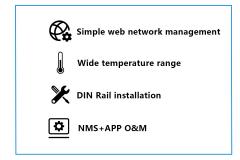
	IEC61000-4-8 (Power frequency magnetic field):100A/m, 1000A/m,1s-3s		
	IEC61000-4-5 (Surge): Power cable: CM±4kV/ DM±2kV, Data cable: ±4kV		
Mechanical	IEC60068-2-6 (Anti Vibration)		
Properties	IEC60068-2-32 (Free Fall), IEC60068-2-27 (Anti Shock)		
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B,		
Certification	RoHS		
Warranty	5 years, lifelong maintenance.		
Network Managemen	nt Features		
	Port status display, Port traffic statistics		
lukanta a	Port duplex/negotiation rate configuration		
Interface	EEE Energy-saving and green Ethernet function		
	IEEE802.3x flow control configuration (Full-duplex)		
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		
0-0	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		
DHCP	DHCP Snooping		
	Mobile APP operation and maintenance management		
Management	NMS platform management (Local platform/Cloud platform)		
	One-key recovery, Cable Diagnose, Web Management (HTTPS)		
	Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42		
	or higher, Category 5 and above Ethernet cables		
System	TCP/IP, network adapter, and network operating systems (Such as		
	Microsoft Windows, Linux or Mac OS X) are installed on each computer in		
	the network with Category 5 and above Ethernet cables		



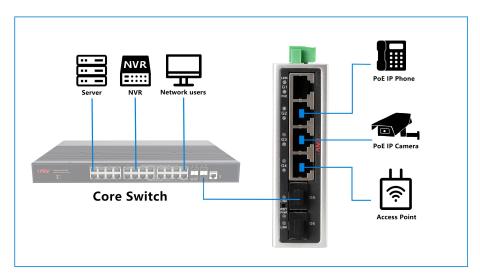
DIMENSION



APPLICATION







ORDERING INFORMATION

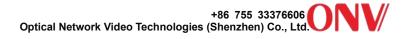
Model	Description	Recommended	
Model	Description	Power Supply	
ONV-IPS5064FM	Easy managed industrial Ethernet fiber switch with		
	4*10/100/1000M RJ45 ports and 2*100/1000M uplink	12W/24W	
	SFP fiber ports. It can support dual DC power input and	1200/2400	
	DIN rail mounting.		
Note: optical module and power supply are not included, and need to be purchased separately.			

PACKING LIST

	Content	Qty	Unit
Packing List	6-port full gigabit Easy managed industrial Ethernet switch	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

OPTICAL MODULE

Product	Model	Description	Unit
1.25G Optical Module	2630-G	Industrial optical module, 1.25G multi-mode dual fiber 850nm, transmission distance: 550m, LC interface, support DDM function, support hot plug and pull.	PC
	2632-G	Industrial optical module, 1.25G single-mode dual fiber 1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC
	2612-T-G	Industrial optical module, 1.25G single-mode single fiber TX1310nm/ RX1550nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC



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

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POWER SUPPLY

Product	Model	Description	Unit
12W DIN Rail Industrial Power Supply	GWS-DP12-12	DIN Rail 12W single set of output power supply Input Voltage: AC100V~240V 50-60H, 0.5A Output Voltage: DC12V, 1.0A Operation Temperature: -40°C to +70°C	PC
24W DIN Rail Industrial Power Supply	GWS-DP24-24	DIN Rail 24W single set of output power supply Input Voltage: AC100V~240V 50-60H, 0.65A Output Voltage: DC24V, 1.0A Operation Temperature: -40°C to +70°C	PC

CONTACT US

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