Product Datasheet

10-port Full Gigabit Easy Managed Industrial Ethernet Switch (ONV-IPS5108FM)



OVERVIEW

The ONV-IPS5108FM is a full Gigabit Easy managed industrial Ethernet fiber switch independently developed by ONV. It has 8*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-IPS5108FM 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-IPS5108FM 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

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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.

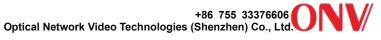
Stable and reliable

- \diamond 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-IPS5108FM			
Interface Characteristics				
	8*10/100/1000Base-T RJ45 ports (Data)			
Fixed Port	2*100/1000Base-X uplink SFP ports (Data)			
	2 groups of V+, V- redundant DC power port (5P phoenix terminal)			
Ethernet Port	Port 1-8 support 10/100/1000Base-T auto-sensing, full/ half duplex MDI/			
Luemerron	MDI-X self-adaption			
Twisted Pair	10BASE-T: Cat3,4,5 UTP (≤100 meters)			
Transmission	100BASE-TX: Cat5 or later UTP (≤100 meters)			
Tansmission	1000BASE-T: Cat5e or later UTP (≤100 meters)			
SFP Slot Port	Gigabit optical fiber interface, default no included optical module (optional			
SIF SIGEFOR	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	Simple web network management, cloud platform management			
Management Type	Simple web network management, cloud platform management			
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX			
Network 1 10tocol	IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x			
Forwarding Mode	Store and Forward(Full wire-speed)			
Switching Capacity	20Gbps			
Forwarding	14 99Mppp			
Rate@64byte	14.88Mpps			
MAC	8К			
Buffer Memory	2Mb			
Jumbo Frame	9.2KB			
LED Indicator	Power: PWR (Green), Network: Link G1-G8 (Yellow), Fiber port: L/A			

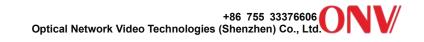


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	G9-G10 (Green)			
Power Supply				
Power	Standby 2010/ Full load 21510/			
Consumption	Standby<8W, Full load<15W			
Interface	5 Pin industrial Phoenix terminal, support anti-reverse protection.			
Power Supply	No, optional 48V/12W or 48V/24W industrial 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)	155*135*44mm			
Net /Gross Weight	<0.6kg / <0.75kg			
Installation Desktop, 35mm DIN rail				
Certification & Warranty				
	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			
Lightning	IEC61000-4-10 (Damped oscillation): 30A/m, 1MHz			
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			

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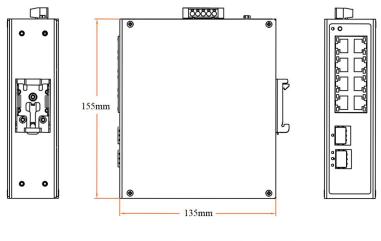
Mechanical	IEC60068-2-6 (Anti Vibration)		
Properties	IEC60068-2-32 (Free Fall), IEC60068-2-27 (Anti Shock)		
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B, RoHS		
Warranty	5 years, lifelong maintenance.		
Network Management Features			
	Port status display, Port traffic statistics		
	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		
QoS	Diff-Serv QoS, Priority Mark/Remark		
Q05	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		

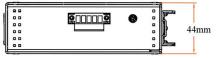


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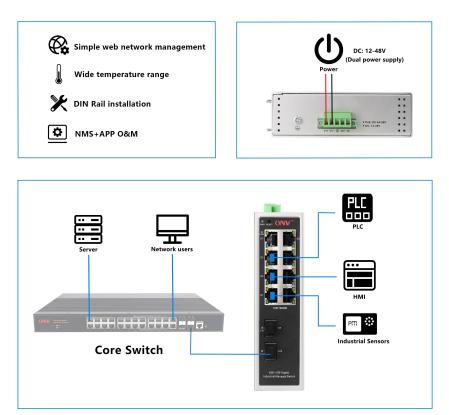
DIMENSION

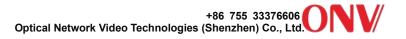






APPLICATION





ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS5108FM	Easy managed industrial Ethernet fiber switch with 8*10/100/1000M RJ45 ports and 2*100/1000M uplink SFP fiber ports. It can support dual DC power input and DIN rail mounting.	12W/24W

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

PACKING LIST

	Content	Qty	Unit
Packing List	10-port full gigabit Easy managed industrial Ethernet switch	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

OPTICAL MODULE

Product	Model	Description	Unit
4.250	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
1.25G Optical Module	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



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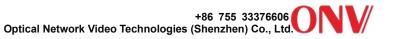
2613-R-G	Industrial optical module, 1.25G single-mode single fiber	
	TX1550nm/ RX1310nm, transmission distance: 20km, LC	PC
	interface, support DDM function, support hot plug and pull.	
2612-T-G-SC	Industrial optical module, 1.25G single-mode single fiber	
	TX1310nm/ RX1550nm, transmission distance: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

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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