Product Datasheet

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



OVERVIEW

The ONV-IPS5108FM is a 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 can support Web management, ONV-NMS management platform, and mobile APP cloud platform 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, easy installation and maintenance, a fast switching function, and multiple access ports, which are suitable for access to LAN devices of various scales. It is suitable for intelligent transportation, rail

transportation, electric power industry, mining, petroleum, shipping, metallurgy green energy construction, and other industrial scenarios to build an economical, efficient, stable, and reliable communication network.

FEATURE

■ Gigabit access, uplink SFP fiber port

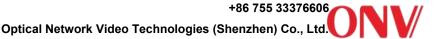
- Support non-blocking wire-speed forwarding.
- ♦ Support full-duplex based on IEEE 802.3x and half-duplex based on Backpressure.
- Support Gigabit RJ45 port and SFP fiber port combination, which enables users to flexibly build networking to meet the needs of various scenarios.

■ 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.
- Visual network topology management, VLAN division, port control, and switching capacity management.
- Practical network management functions are retained according to industry application requirements, and network deployment and centralized operation and maintenance can be quickly realized through the operation and maintenance platform.

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 alloy housing, and excellent heat dissipation to ensure the stable operation of the switch.



TECHNICAL SPECIFICATION

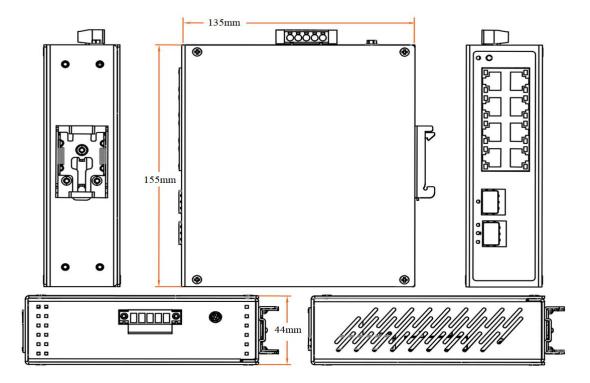
Model	ONV-IPS5108FM			
Interface Characteris	Interface Characteristics			
Fixed Port	8*10/100/1000Base-T RJ45 ports (Data)			
	2*100/1000Base-X uplink SFP ports (Data)			
	2 sets V+, V- redundant DC power port (5P phoenix terminal)			
Ethernet Port	Port 1-8 can support 10/100/1000Base-T auto-sensing, full/ half duplex			
Linemet Fort	MDI/ 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 Port	Gigabit optical fiber interface, default no included optical module (optional			
Optical Fiber Port	single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)			
Optical Cable/ Multi-mode: 850nm/ 0-550m, Single-mode: 1310nm/ 0-40km, 1				
Distance 0-120km.				
Chip Parameter				
Network	LO (Mah managamant platform managamant)			
Management Type	L2 (Web management, platform management)			
Network Protocol	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	20Gbps (non-blocking)			
Forwarding Rate	44.00М			
@64byte	14.88Mpps			
MAC	8K			
Buffer Memory	2M			
Jumbo Frame	9.2K			
LED Indicator	Power/ System: SYS (Green), Network: Link (Yellow), Fiber port: L/A			

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	(Green)	
Reset Switch	Press for 6 seconds and then release to restore to factory settings	
Reset Switch	Short press twice (1 second interval) to switch to unmanaged state	
Power Supply		
Power Consumption	Standby<8W, Full load<15W	
Working Voltage	DC12-48V, 5P industrial phoenix terminal, anti-reverse protection	
Power Supply No, optional 12V/24W or 24V/24W industrial power supply		
Physical Parameter		
Operation Temp/	40-+75°C 50/000/ PH Non condensing	
Humidity	-40~+75°C, 5%~90% RH Non condensing	
Storage Temp/	-40~+85°C, 5%~95% RH Non condensing	
Humidity	-40 100 0, 570 3570 REPROPERTIES	
Dimension (L*W*H)	155*135*44mm	
Net /Gross Weight 0.6kg/ 0.8kg		
Installation Desktop, 35mm DIN Rail		
Certification & Warranty		
	Protection level: IP30	
	Lightning protection: 6KV/8/20us	

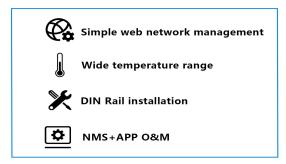
	Protection level: IP30
	Lightning protection: 6KV 8/20us
	IEC61000-4-3 (RS):10V/m (80~1000MHz)
	FCC Part 15/CISPR22 (EN55022): Class B
	IEC61000-6-2 (Common Industrial Standard)
	IEC61000-4-9 (Pulsed magnet field):1000A/m
Lightning Protection	IEC61000-4-10 (Damped oscillation): 30A/m, 1MHz
	IEC61000-4-12/18 (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)
	IEC61000-4-8 (Power frequency magnetic field):100A/m, 1000A/m,1s-3s

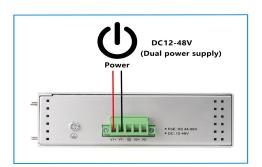
	IEC61000-4-5 (Surge): Power cable: CM±4kV/ DM±2kV, Data cable: ±4kV	
Mechanical	IEC60068-2-6 (Anti Vibration), IEC60068-2-32 (Free Fall), IEC60068-2-27	
Properties	(Anti Shock)	
0 ((5)	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B,	
Certification	RoHS	
Warranty	5 years, lifelong maintenance.	
Network Managemen	nt Feature	
	Port status display, Port traffic statistics	
Interface	Port duplex/negotiation rate configuration	
ппенасе	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, 8*Output queues of each port, 802.1p/DSCP priority	
Q03	mapping, Priority Mark/Remark	
Security	Broadcast storm control, Port isolation, Port speed limit	
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)	
	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	

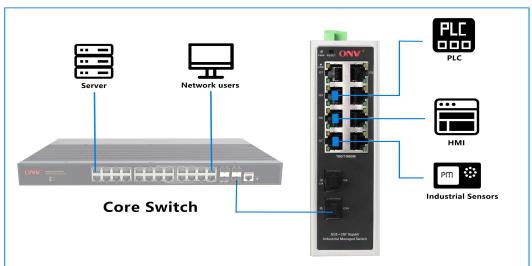
DIMENSION



APPLICATION







ORDERING INFORMATION

Model	Description	Recommended 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.	24W

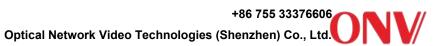
Note: The optical module and power supply are not included and need to be purchased.

PACKING LIST

Packing List	Content	Qty	Unit
	10-port gigabit Easy managed industrial Ethernet 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	PC
		function and hot plugging.	
1.25G		Industrial optical module, 1.25G single-mode dual fiber	
Optical	2632-G	1310nm, transmission distance: 20km, LC interface. supports	PC
Module		DDM function and hot plugging.	
		Industrial optical module, 1.25G single-mode single fiber	
	2612-T-G	TX1310nm/ RX1550nm, transmission distance: 20km, LC	PC
		interface. supports DDM function and hot plugging.	



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

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POWER SUPPLY

Product	Model	Description	Unit
24W DIN Rail Industrial Power Supply	GWS-DP24-12	DIN Rail 24W single set of output power supply Input Voltage: AC100V~240V 50-60H, 0.35A Output Voltage: DC12V, 2.0A Operation Temperature: -40℃ to +70℃	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, 0.35A Output Voltage: DC24V, 1.0A Operation Temperature: -40℃ to +70℃	PC

CONTACT US

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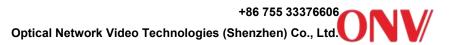
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