Product Datasheet

10-port Gigabit Easy Managed Industrial PoE Switch (ONV-IPS5108PFM)



OVERVIEW

The ONV-IPS5108PFM is a Gigabit Easy managed industrial PoE 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. Port 1-8 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. It also meets 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-IPS5108PFM can support the ONV-NMS management platform and cloud 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 fiber 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.
- ♦ 8*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.
- ♦ Visualized network topology management, VLAN division, QoS, link aggregation, port



mirroring, port control, and bandwidth management.

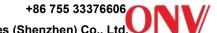
Practical network management functions are retained according to industry application requirements, and network deployment and centralized operation and maintenance can be quickly realized through the operation and maintenance platform.

■ Stable and reliable

- ♦ CCC, CE, FCC, RoHS.
- ♦ The user-friendly panel can show the device status through the LED indicator of PWR, SYS, 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-IPS5108PFM			
Interface Characteristi	cs			
	8*10/100/1000Base-T PoE ports (Data/ Power)			
Fixed Port	2*100/1000Base-X uplink SFP fiber 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			
Ellielliet Fort	MDI/ MDI-X self-adaption			
T : (ID :	10BASE-T: Cat3,4,5 UTP (≤100 meters)			
Twisted Pair Transmission	100BASE-TX: Cat5 or later UTP (≤100 meters)			
Hallsillission	1000BASE-T: Cat5e/6 or later UTP (≤100 meters)			
0 (; 15; 5)	Gigabit optical 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, 1550nm /			
Distance	0-120km			
Chip Parameter				
Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX,			



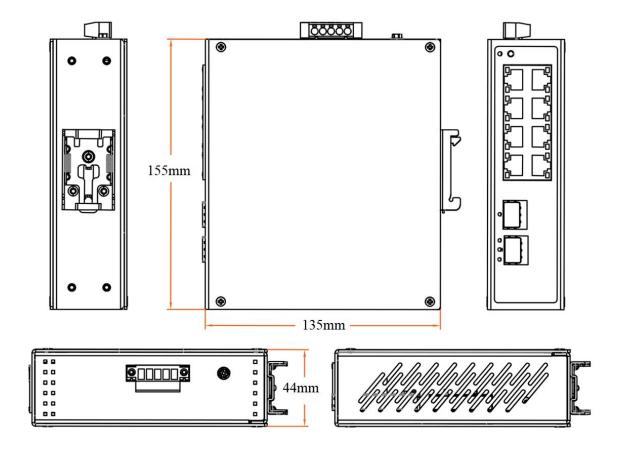
	IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X, IEEE 802.3x		
Esperadio e Marda	Store and Forward (Full wire-speed)		
Forwarding Mode			
Switching Capacity	20Gbps (non-blocking)		
Forwarding Rate	14.88Mpps		
@64byte			
MAC	8K		
Buffer Memory	2M		
Jumbo Frame	9.2K		
LED L. II. (Power/System: SYS (Green), Network: Link (Yellow), PoE: PoE(Green),		
LED Indicator	Fiber port: L/A (Green)		
	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		
PoE & Power Supply			
PoE Port	Port 1-8		
PoE Management	Port PoE output on/off, Port PoE real-time power view		
Power Supply Pin	2 (+) 3/6 (-)		
Max Power Per Port	30W, IEEE 802.3 af/at		
Power Consumption	Standby<8W, Full load af<120W, at<240W		
Power Input Port	DC44-56V, 5P industrial Phoenix terminal, support anti-reverse protection.		
Power Supply	No, optional 48V/120W or 48V/240W industrial power supply		
Physical Parameter			
Operation Temp/	40 +75°C 50′ 000′ DII Non condensing		
Humidity	-40~+75°C, 5%~90% RH Non condensing		
Storage Temp/	40 +05°C 50/ O50/ DIL Non condensing		
Humidity	-40~+85°C, 5%~95% RH Non condensing		
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			
	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			
Linkshin n Docks stien	IEC61000-4-10 (Damped oscillation): 30A/m, 1MHz			
Lightning 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			
Mechanical Properties	IEC60068-2-6 (Anti Vibration), IEC60068-2-32 (Free Fall), IEC60068-2-27			
Mechanical Froperties	(Anti Shock)			
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B,			
Certification	RoHS			
Warranty	5 years, lifelong maintenance.			
Network Management	Feature			
	Port status display, Port traffic statistics			
Interface	Port duplex/negotiation rate configuration			
menace	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	rt Mirroring Bidirectional data mirroring based on port			

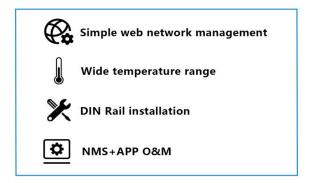
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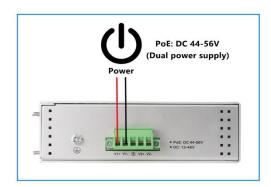
QoS	Diff-Serv QoS, 8*Output queues of each port, 802.1p/DSCP priority		
	mapping, Priority Mark/Remark		
Security	Broadcast storm control, Port isolation, Port speed limit		
DHCP	DHCP Snooping		
Management	Mobile APP operation and maintenance management		
	One-key recovery, Cable Diagnose, Web Management (https)		
	ONV-NMS platform management (Local platform/Cloud platform)		
System	Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or		
	higher, Category 5 and above Ethernet cables		
	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		

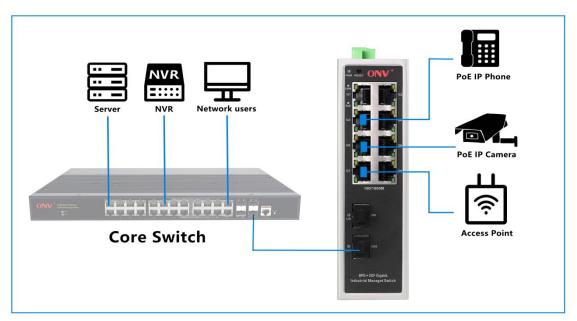
DIMENSION



APPLICATION



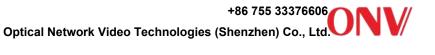




ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS5108PFM	Easy managed industrial PoE switch with 8*10/100/1000M RJ45 ports and 2*100/1000M uplink SFP fiber ports. Port 1-8 can support IEEE 802.3 af/at PoE standard. It can support dual DC power input and DIN Rail mounting.	120W/240W

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



PACKING LIST

	Content	Qty	Unit
Packing List	10-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
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
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℃ to +70℃	PC

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