Product Datasheet

10-port Full Gigabit E Network Managed Industrial PoE Switch

(ONV-IPS53108PFM)



OVERVIEW

The ONV-IPS53108PFM is a full Gigabit e network managed industrial PoE switch independently developed by ONV. It has 8*10/100/1000Base-T adaptive RJ45 ports and 2*100/10001000Base-X SFP fiber ports. Port 1-8 can support IEEE802.3af/at PoE standard. Single-port PoE power up to 30W. As a PoE power supply device, it can automatically detect and recognize power-compliant devices that meet the standard and supply power through the network cable. It can supply power to POE terminal equipment such as wireless AP, webcam, VoIP, industrial sensor through the network cable, and meet the network environment that needs high-density PoE power supply. It is suitable for intelligent transportation, rail transit, power industry, mining, petroleum, Industrial scenes such as shipping, metallurgy, and green energy construction form a cost-effective, stable and reliable communication network.

ONV-IPS53108PFM can support the ONV-NMS management platform and cloud management APP management. It can realize security network topology management,

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link aggregation, port management, POE management, remote operation and maintenance and other functions. This series of switches has high reliability, is easy to install and maintain, has fast switching function, and multiple access ports, which are suitable for access to LAN devices of various scales.

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.

Intelligent PoE power supply

- ♦ IEEE802.3af/at PoE standard, without damaging non-PoE devices.
- PoE network management, realize PoE port power allocation, priority setting, port power status viewing, time scheduling, etc.
- 8*10/100/1000Base-T RJ45 ports can support POE power supply 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 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.
- ♦ Low power consumption, No fan design, aluminum shell.
- The user-friendly panel can show the device status through the LED indicator of PWR, SYS, Link, L/A.

TECHNICAL SPECIFICATION

Model	ONV-IPS53108PFM		
Interface Characteristics			
	8*10/100/1000Base-T PoE ports(Data/Power)		
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		
Linemet Port	MDI/MDI-X self-adaption		
Twisted Pair	10BASE-T: Cat3,4,5 UTP(≤100 meter)		
Transmission	100BASE-TX: Cat5 or later UTP(≤100 meter)		
I ransmission	1000BASE-T: Cat5e or later UTP(≤100 meter)		
	Gigabit SFP optical fiber interface, default no included optical modules		
SFP Slot Port	(optional order 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.		

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Chip Parameter			
Network Management Type	Simple web network management, cloud platform management		
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x		
Forwarding Mode	Store and Forward(Full wire-speed)		
Switching Capacity	20Gbps		
Forwarding Rate@64byte	14.88Mpps		
MAC	8K		
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 default settings Short press 2 times (1 second interval) to switch to the unmanaged state		

PoE & Power Supply

PoE Port	Port 1 to 8, IEEE802.3af/at		
PoE Management	POE port output on/off, View real-time power status of POE port		
Power Supply Pin	Default: 1/2 (+) 3/6 (-)		
Max Power Per	2014/ JEEE802 20f/ot		
Port	30W, IEEE802.3af/at		
Total power/Input	120W/48VDC		
Voltage			
Power	Standby:<8W, Full load:<120W		
Consumption	Stanuby. Novy, Full Idad. N 12000		
Power Input Port	DC48-57V, 5 Pin industrial Phoenix terminal, support anti-reverse		

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	protection.			
Power Supply	No, optional 48V/120W or 48V/240W 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)	145*134.5*47mm			
Net /Gross Weight	<0.6kg / <0.8kg			
Installation	Desktop, 35mm DIN rail			
Certification & War	ranty			
Lightning Protection	Lightning protection: 6KV 8/20us; Protection level: IP40 IEC61000-4-2(ESD):±8kV contact discharge,±15kV air discharge IEC61000-4-3(RS):10V/m(80~1000MHz) IEC61000-4-4(EFT): power cable:±4kV; data cable:±2kV IEC61000-4-5(Surge):power cable:CM±4kV/DM±2kV; data cable:±4kV IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz) IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m ,1s to 3s IEC61000-4-9(pulsed magnet field):100A/m IEC61000-4-10(damped oscillation):30A/m 1MHz IEC61000-4-12/18(Shockwave):CM 2.5kV,DM 1kV IEC61000-4-16(common-mode transmission):30V; 300V,1s FCC Part 15/CISPR22(EN55022):Class B IEC61000-6-2(Common Industrial Standard)			
Mechanical Properties	IEC60068-2-6 (anti vibration) IEC60068-2-27 (anti shock) IEC60068-2-32 (free fall)			
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B, RoHS			

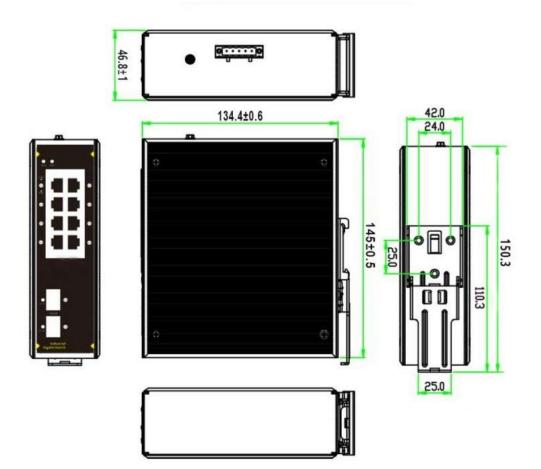
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Warranty	5 years, lifelong maintenance.			
Network Management Features				
Interface	Port status display, Port traffic statistics			
	Port duplex/negotiation rate configuration			
Interface	EEE Energy-saving and green Ethernet function			
	IEEE802.3x 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			
005	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	ONV-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



ORDERING INFORMATION

Model	Description	Recommended Power Supply
	E network managed industrial PoE switch with	120W/240W
	8*10/100/1000M RJ45 ports and 2*100/1000M SFP	
ONV-IPS53108PFM	ports. Port 1-8 can support IEEE802.3af/at PoE	
	standard. Support DC redundant power input	
	(Phoenix terminal connection) and DIN rail mounting.	

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

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PACKING LIST

	CONTENT	QTY	UNIT
PACKING LIST	10-port full gigabit E network managed industrial PoE switch	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

OPTICAL MODULE INFORMATION

Product	Model	Description	Unit
	2630-G	Industrial SFP optical module, 1.25G, multi-mode dual fiber 850nm, transmission distance: 550m, LC interface,	PC
		support DDM function, support hot plug and pull.	
		Industrial SFP optical module, 1.25G, single-mode dual	
	2632-G	fiber 1310nm, transmission distance: 20km, LC	PC
		interface, support DDM function, support hot plug and	
		pull.	
1.25G		Industrial SFP optical module, 1.25G, single-mode	
Optical	2612-T-G	single fiber TX1310nm/RX1550nm, transmission	PC
Module	2012 1 0	distance: 20km, LC interface, support DDM function,	10
		support hot plug and pull.	
		Industrial SFP optical module, 1.25G, single-mode	
	2613-R-G	single fiber TX1550nm/RX1310nm, transmission	PC
	2013-11-0	distance: 20km, LC interface, support DDM function,	10
		support hot plug and pull.	
		Industrial SFP optical module, 1.25G, single-mode	
	2612-T-G-SC	single fiber TX1310nm/RX1550nm, transmission	PC
		distance: 20km, SC interface, support DDM function,	

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

POWER SUPPLY

Product	Model	Description	Unit
110W Desktop Power Adaptor	GWS-AP110-52	Desktop 110W single set of output power adapter Input Voltage:AC 100V~240V 50-60Hz,2.3A Output Voltage:DC 52V 2.5A Operation Temperature:-20°C—+65°C	PC
250W Desktop Power Adaptor	GWS-AP250-52	Desktop 250W single set of output power adapter Input Voltage:AC 100V~240V 50-60Hz, 5.0A Output Voltage:DC 52V 4.8A Operation Temperature:-20°C—+65°C	PC
120W DIN Rail Industrial Power Supply	GWS-DP120-48	Din Rail 120W single set of output power supply Input Voltage:AC 100V~240V 50-60Hz,2.3A Output Voltage:DC 48V 2.5A Operation Temperature:-40°C—+70°C	PC
240W DIN Rail Industrial Power Supply	GWS-DP240-48	Din Rail 240W single set of output power supply Input Voltage:AC 100V~240V 50-60Hz,3.0A Output Voltage:DC 48V 5.0A	PC

RELATED PRODUCT

Model	Description	
	E network managed industrial PoE fiber switch with	
ONV-IPS53054PFM	4*10/100/1000M RJ45 ports and 1*1000M SFP port. Port 1-4 can	
	support IEEE802.3af/at PoE standard. Support DC redundant	
	power input and DIN rail mounting.	
	E network managed industrial PoE fiber switch with	
ONV-IPS53064PFGM	5*10/100/1000M RJ45 ports and 1*1000M SFP port. Port 1-4 can	
0110-1F 333004F1 Givi	support IEEE802.3af/at PoE standard. Support DC redundant	
	power input and DIN rail mounting.	
	E network managed industrial PoE fiber switch with	
ONV-IPS53064PFM	4*10/100/1000M RJ45 ports and 2*1000M SFP ports. Port 1-4 can	
	support IEEE802.3af/at PoE standard. Support DC redundant	
	power input and DIN rail mounting.	
	E network managed industrial PoE switch with 8*10/100/1000M	
ONV-IPS53008PFM	RJ45 ports. Port 1-8 can support IEEE802.3af/at PoE standard.	
	Support DC redundant power input and DIN rail mounting.	

CONTACT US

