Product Datasheet

6-port Gigabit Easy Managed Industrial PoE Switch

(ONV-IPS53064PFGM)



OVERVIEW

The ONV-IPS53064PFGM is a Gigabit Easy managed industrial PoE switch independently developed by ONV. It has 1*100/1000Base-X uplink SFP fiber port and 5*10/100/1000Base-T adaptive RJ45 ports. Port 1-4 can support IEEE 802.3 af/at PoE standard and the 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-IPS53064PFGM can support the ONV-NMS cloud platform to 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.
- 4*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.
- ♦ Cloud platform and mobile APP operation and maintenance management.
- Visualized PoE power supply control, network topology management, VLAN division, QoS, link aggregation, loop protection, 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, aluminum alloy housing, and excellent heat dissipation to ensure the stable operation of the switch.

TECHNICAL SPECIFICATION

Model	ONV-IPS53064PFGM		
Interface Characteristics			
	1*DC5521 power jack		
	1*10/100/1000Base-T uplink RJ45 port (Data)		
Fixed Port	1*100/1000Base-X uplink SFP fiber port (Data)		
	4*10/100/1000Base-T PoE ports (Data/ Power)		
	2 set V+, V- redundant DC power port (5P Phoenix terminal)		
Ethernet Port	Port 1-5 can support 10/100/1000Base-T auto-sensing, full/ half duplex		
Ethernet Port	MDI/ MDI-X self-adaption		
	10BASE-T: Cat3,4,5 UTP (≤100 meters)		
Twisted Pair Transmission	100BASE-TX: Cat5 or later UTP (≤100 meters)		
	1000BASE-T: Cat5e/6 or later UTP (≤100 meters)		
Ontical Eiber Port	Gigabit optical fiber interface, default no include optical module (optional		
Optical Fiber Port	single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)		
Ontical Cable/ Distance	Multi-mode: 850nm/ 0-550m, Single-mode: 1310nm/ 0-40km, 1550nm/		
Optical Cable/ Distance	0-120km.		
Chip Parameter			
Network Management	Web management, platform management		
Туре	Web management, platform management		
Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX,		



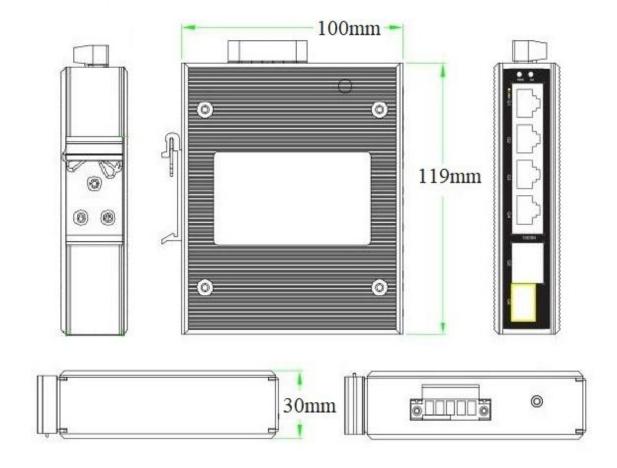
	IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X, IEEE 802.3x	
Forwarding Mode	Store and Forward (Full wire-speed)	
Switching Capacity	12Gbps (non-blocking)	
Forwarding Rate@64byte	8.93Mpps	
MAC	2K	
Buffer Memory	2M	
Jumbo Frame	9.2K	
LED Indicator	Power/ System: SYS (Green), Network: Link (Yellow), PoE: PoE (Green),	
LED Indicator	Fiber port: L/A (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	
PoE& Power Supply		
PoE Port	Port 1-4	
PoE Management	Port PoE output on/off, Port PoE real-time power view	
Power Supply Pin	1/2 (+) 3/6 (-)	
Max Power Per Port	30W, IEEE 802.3 af/at	
Power Consumption	Standby<6W, Full load af<60W, at<120W	
nnut Valtaga/ Interface	DC48-57V, 5P industrial Phoenix terminal, and DC5521 power jack.	
Input Voltage/ Interface	Support reverse connection protection.	
Power Supply	No, optional 48V/60W or 48V/120W industrial power supply	
Physical Parameter		
Operation Temp/ Humidity	-40°C~+75°C, 5%~90% RH non condensing	
Storage Temp/ Humidity	-40°C~+85°C, 5%~95% RH non condensing	
Dimension (L*W*H)	119*100*30mm	
Net /Gross Weight	0.4kg/ 0.5kg	
Installation	Desktop, 35mm DIN Rail	
Certification& Warranty		
Lightning Protection	IEC61000-4-3 (RS):10V/m (80-1000MHz)	
Lightning Protection	FCC Part 15/CISPR22 (EN55022): Class A	



	IEC61000-6-2 (Common Industrial Standard)	
	IEC61000-4-9 (Pulsed magnet field): 1000A/m	
	IEC61000-4-10 (Damped oscillation): 30A/m 1MHz	
	IEC61000-4-12/18 (Shockwave): CM2.5kV, DM1kV	
	Protection level: IP40, Lightning protection: 6KV 8/20us	
	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	
Machanical Proportion	IEC60068-2-6 (Anti Vibration), IEC60068-2-32 (Free Fall), IEC60068-2-27	
Mechanical Properties	(Anti Shock)	
Certification	CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class A, RoHS	
Warranty	5 years, lifelong maintenance.	
Network Management Feature		
	EEE Energy-saving and green Ethernet function	
Interface	Port traffic statistics, IEEE 802.3x flow control (Full-duplex)	
	Port status display, Port duplex/ negotiation rate configuration	
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	
Management	ONV-NMS platform management (Cloud platform)	

	Mobile APP operation and maintenance management
	One-key recovery, Cable Diagnose, Web Management
	Web browser: Mozilla Firefox 2.5 or higher, Google Chrome V42 or higher,
	Cat5 and above Ethernet cable
System	TCP/IP, network adapter, and network operating system (such as Microsoft
	Windows, Linux, Mac OS X) installed on each computer in the network
	Cat5 and above Ethernet cable

DIMENSION



ORDERING INFORMATION

Model	Description	Recommended Power Supply
		Power Supply
ONV-IPS53064PFGM	Easy managed industrial PoE switch with 1*100/1000M	
	uplink SFP fiber port and 5*10/100/1000M RJ45 ports.	
	Port 1-4 can support IEEE 802.3 af/at PoE standard. It	60/4//420/4/
	can support dual DC redundant power input (Phoenix	60W/120W
	terminal or DC power jack connection) and DIN Rail	
	mounting.	
Note: The entired module and newer cumply are not included and need to be purchased		

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

PACKING LIST

	Content	Qty	Unit
B. H. Hart	6-port Gigabit Easy managed industrial PoE switch	1	Set
Packing List	User Guide	1	PC
	Warranty Card and Certificate of Conformity	1	PC

OPTICAL MODULE

Product	Model	Description	Unit
4.050	2630-G	Industrial SFP optical module, 1.25G multi-mode dual fiber 850nm, transmission distance: 550m, LC interface, supports DDM function and hot plugging.	PC
1.25G Optical Module	2632-G	Industrial SFP optical module, 1.25G single-mode dual fiber 1310nm, transmission distance: 20km, LC interface, supports DDM function and hot plugging.	PC
	2612-T-G	Industrial SFP optical module, 1.25G single-mode single fiber TX1310nm/ RX1550nm, transmission distance: 20km, LC	PC

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

POWER SUPPLY

Product	Model	Description	Unit
60W DIN Rail Industrial Power Supply	GWS-DP60-48	DIN Rail 60W single set of output power supply Input Voltage: AC100V~240V 50-60Hz, 1.0A Output Voltage: DC48V, 1.25A Operation Temperature: -40°C to +70°C	PC
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

RELATED PRODUCT

	Model	Description
	ONV-IPS53064PFM	Easy managed industrial PoE switch with 2*100/1000M uplink SFP fiber
		ports and 4*10/100/1000M RJ45 ports. Port 1-4 can support IEEE 802.3
		af/at PoE standard. It can support dual DC redundant power input (Phoenix
		terminal or DC power jack connection) and DIN Rail mounting.



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ONV-IPS53108PFM

Easy managed industrial PoE switch with 2*100/1000M uplink SFP fiber ports and 8*10/100/1000M RJ45 ports. Port 1-8 can support IEEE 802.3 af/at PoE standard. It can support dual DC redundant power input (Phoenix terminal or DC power jack connection) and DIN Rail mounting.

CONTACT US

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