Product Datasheet

6-port Gigabit Easy Managed Industrial PoE Switch

(ONV-IPS53064PFGM)



OVERVIEW

The ONV-IPS53064PFGM is a gigabit Easy managed industrial PoE fiber switch independently developed by ONV. It has 5*10/100/1000Base-T adaptive RJ45 ports and 1*100/1000Base-X uplink SFP fiber port. Port 1-4 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, and meet 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 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

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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 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.
- 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 industry application requirements, complex network management configurations are discarded, practical network management functions are retained, and network deployment and centralized operation and maintenance can be quickly realized through the operation and maintenance platform.

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Stable and reliable

 \diamond CCC, CE, FCC, RoHS.

- The user-friendly panel can show the device status through the LED indicator of SYS,
 Link, and L/A.
- Low power consumption, no fan, aluminum shell, and excellent heat dissipation to ensure the stable operation of the switch.

TECHNICAL SPECIFICATION

Model	ONV-IPS53064PFGM		
Interface Characteristics			
	1*DC5521 power socket 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 sets V+, V- redundant DC power port (5P phoenix terminal)		
Ethernet Port	Port 1-5 support 10/100/1000Base-T auto-sensing, full/ half duplex MDI/ MDI-X		
Ethemet Port	self-adaption		
Twisted Pair	10BASE-T: Cat3,4,5 UTP (≤100 meters)		
	100BASE-TX: Cat5 or later UTP (≤100 meters)		
Transmission	1000BASE-T: Cat5e/6 or later UTP (≤100 meters)		
	Gigabit optical fiber interface, default no include optical module (optional		
Optical Fiber Port	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.		
Chip Parameter			
Network Management			
Туре	L2 (Web management, platform management)		
Notwork Drotocol	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)			

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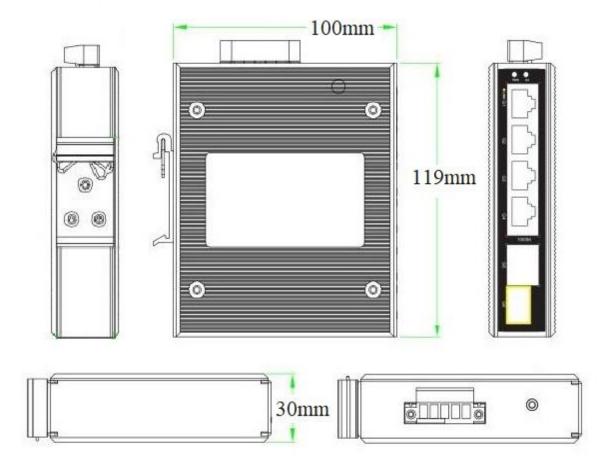
	www.onvcom.com	
Switching Capacity	12Gbps (non-blocking)	
Forwarding Rate	•	
@64byte	8.93Mpps	
MAC	2К	
Buffer Memory	2M	
Jumbo Frame	9.2K	
LED Indicator	Power/ System: SYS (Green), Network: Link (Yellow), PoE: PoE(Green), Fiber	
	port: L/A (Green)	
	Press and hold for 6 seconds and release to restore the factory default	
Reset Switch	settings, short press 2 times (1 second interval) to switch to the 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		
Power Input Port	DC48-57V, 5P industrial Phoenix terminal, support anti-reverse protection.	
Power Supply	No, optional 48V/60W or 48V/120W industrial power supply	
Physical Parameter		
Operation TEMP/	-40°C~+75°C, 5%~90% RH Non condensing	
Humidity		
Storage TEMP/	-40°C~+85°C, 5%~95% RH Non condensing	
Humidity		
Dimension (L*W*H)	119*100*30mm	
Net /Gross Weight	0.4kg / 0.5kg	
Installation	Desktop, 35mm DIN Rail	
Certification & Warranty		
Lightning Protection	Protection level: IP40	

	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	
	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	
	IEC60068-2-6 (Anti Vibration), IEC60068-2-32 (Free Fall), IEC60068-2-27	
Mechanical Properties	(Anti Shock)	
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B, 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	
0.5	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	

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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 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



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ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS53064PFGM	L2 Easy managed industrial PoE fiber switch with 5*10/100/1000M RJ45 ports and 1*100/1000M uplink SFP fiber port. Port 1-4 can support IEEE 802.3 af/at PoE standard. It can support dual DC power supply input and DIN rail mounting.	60W/120W

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

PACKING LIST

Packing List	Content	Qty	Unit
	6-port gigabit Easy managed industrial PoE switch	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

OPTICAL MODULE

Product	Model	Description	
	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 interface, supports DDM function and hot plugging.	PC

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Industrial SFP optical module, 1.25G single-mode single fiber 2613-R-G TX1550nm/ RX1310nm, transmission distance: 20km, LC interface, supports DDM function and hot plugging.		PC
2612-T-SC-G	Industrial SFP 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 SFP 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
65W Desktop Power Adapter	GWS-AP65-52	Desktop 65W single set of output power adapter Input Voltage: AC100V~240V 50-60Hz, 1.1A Output Voltage: DC52V, 1.25A Operation Temperature: -20°C to +65°C	PC
110W Desktop Power Adapter	GWS-AP110-52	Desktop 110W single set of output power adapter Input Voltage: AC100V~240V 50-60Hz, 2.0A Output Voltage: DC52V, 2.15A Operation Temperature: -20°C to +65°C	PC
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		
	L2 Easy managed industrial PoE fiber switch with 4*10/100/1000M		
ONV-IPS53064PFM	RJ45 ports and 2*100/1000M uplink SFP fiber ports. Port 1-4 can		
0117-173330047710	support IEEE 802.3 af/at PoE standard. It can support dual DC power		
	input and DIN rail mounting.		
	L2 Easy managed industrial PoE fiber switch with 8*10/100/1000M		
ONV-IPS53108PFM	RJ45 ports and 2*100/1000M uplink SFP fiber ports. Port 1-8 can		
UNV-IF333106FFIM	support IEEE 802.3 af/at PoE standard. It can support dual DC power		
	input and DIN rail mounting.		

CONTACT US

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