Product Datasheet

6-port Full Gigabit Cloud Managed Industrial Ethernet Switch (ONV-IPS53064FGM)



OVERVIEW

The ONV-IPS53064FGM is a full Gigabit cloud managed industrial Ethernet fiber switch independently developed by ONV. It has 5*10/100/1000Base-T adaptive RJ45 ports and 1*100/1000Base-X uplink SFP fiber slot ports. Each port can support wire-speed forwarding.

The ONV-IPS53064FGM 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, fast switching function, and multiple access ports, which are suitable for access to LAN devices of various scales. The ONV-IPS53064FGM follows the design and materials of industrial products. The shell is made of aluminum alloy, which has excellent industrial field environmental adaptability (including mechanical stability, climate environment adaptability, electromagnetic environment adaptability, etc.). the protection level is IP40, supports dual redundant power supply, low power consumption, and no fan, and 5-year warranty. It is suitable for industrial scenarios such

as intelligent transportation, rail transit, the electric power industry, mining, petroleum, shipping, metallurgy, and green energy construction to establish a cost-effective, stable, and reliable communication network.

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.

■ 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.

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 shell, excellent heat dissipation to ensure the stable operation of the switch.



TECHNICAL SPECIFICATION

Model	ONV-IPS53064FGM		
Interface Characteristics			
	1*DC5521 power socket		
	4*10/100/1000Base-T RJ45 ports (Data)		
Fixed Port	1*10/100/1000Base-T uplink RJ45 port (Data)		
	1*100/1000Base-X uplink SFP fiber port (Data)		
	2 groups of 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/		
Ethernet Port	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)		
CED Clat Dart	Gigabit optical fiber interface, default no included optical module (optional		
SFP Slot Port	single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)		
Optical Cable/	Multi-mode: 850nm/ 0-500m		
Distance	Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km.		
Chip Parameter			
Network	LO (Mala magnetica natural de la magnetica natural de		
Management Type	L2 (Web management, platform management)		
National District	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX		
Network Protocol	IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x		
Forwarding Mode	Store and Forward(Full wire-speed)		
Switching Capacity	12Gbps		
Forwarding	0.0014		
Rate@64byte	8.93Mpps		
MAC	2K		
Buffer Memory	2M		

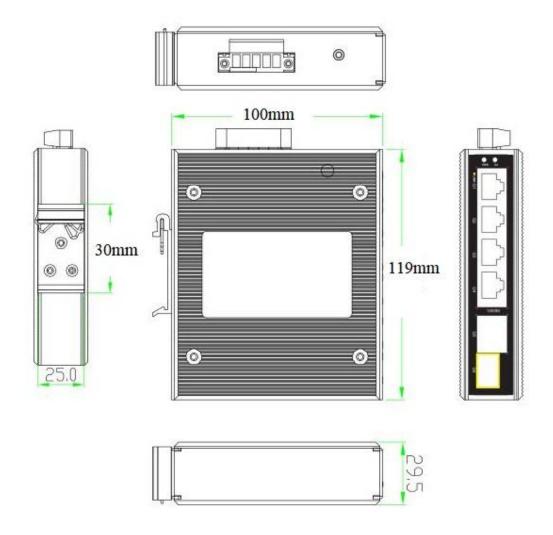
Jumbo Frame	9.2K				
LED Indicator	Fiber port: L/A (Green), Network: Link (Yellow), Power/ System: SYS				
LLD Indicator	(Green)				
	Press and hold for 6 seconds and release to restore the factory default				
Reset Switch	settings, short press 2 times (1 second interval) to switch to the				
	unmanaged state				
Power Supply					
Power	Standby AM Full load of M				
Consumption	Standby<4W, Full load<6W				
Interface	DC12-48V, 5 Pin industrial Phoenix terminal, support anti-reverse				
interrace	protection.				
Power Supply	No, optional 12V/12W or 24V/24W industrial power supply				
Physical Parameter					
Operation TEMP /	40°C 175°C 50/ 000/ DILNer condensing				
Humidity	-40°C~+75°C, 5%~90% RH Non condensing				
Storage TEMP /	40°C 105°C 50/ 050/ DII Non condensing				
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 & War	ranty				
	Protection level: IP40				
	Lightning protection: 6KV 8/20us				
	IEC61000-4-3 (RS):10V/m (80~1000MHz)				
Lightning	FCC Part 15/CISPR22 (EN55022): Class B				
Protection	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
Mechanical	IEC60068-2-6 (Anti Vibration), IEC60068-2-32 (Free Fall), IEC60068-2-27
Properties	(Anti Shock)
0 115 11	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B,
Certification	RoHS
Warranty	5 years, lifelong maintenance.
Network Manageme	ent Feature
	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
	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
	Mobile APP operation and maintenance management
Management	ONV-NMS platform management (Local platform/ Cloud platform)
	One-key recovery, Cable Diagnose, Web Management (https)
System	Web browser: Mozilla Firefox 2.5 or higher, Google Chrome V42 or higher,

Cat5 and above Ethernet cable

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



APPLICATION

ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS53064FGM	L2 managed industrial Ethernet fiber switch with 5*10/100/1000M RJ45 ports and 1*100/1000M uplink SFP fiber port. It can support redundant dual DC power input and DIN rail mounting.	24V/24W

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

PACKING LIST

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

OPTICAL MODULE

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

POWER SUPPLY

	Product	Model	Description	Unit
I	12W DIN Rail ndustrial Power Supply	GWS-DP12-12	DIN Rail 12W single set of output power supply Input Voltage: AC100V~240V 50-60H, 0.5A Output Voltage: DC12V, 1A Operation Temperature: -40℃ to +70℃	PC

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24W DIN Rail Industrial Power Supply DIN Rail 24W single set of output poor in the poor	PC
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RELATED PRODUCT

Model	Description	
	L2 managed industrial Ethernet fiber switch with 4*10/100/1000M RJ45	
ONV-IPS53064FM	ports and 2*100/1000M uplink SFP fiber ports. It can support redundant	
	dual DC power input and DIN rail mounting.	
	L2 managed industrial Ethernet fiber switch with 8*10/100/1000M RJ45	
ONV-IPS53108FM	ports and 2*100/1000M uplink SFP fiber ports. It can support redundant	
	dual DC power input and DIN rail mounting.	

CONTACT US



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