Product Datasheet

6-port Full Gigabit Cloud Managed Industrial Ethernet Switch (ONV-IPS53064FM)



OVERVIEW

The ONV-IPS53064FM is a full Gigabit cloud managed industrial Ethernet fiber switch independently developed by ONV. It has 4*10/100/1000Base-T adaptive RJ45 ports and 2*100/1000Base-X uplink SFP fiber ports. Each port can support wire-speed forwarding. The ONV-IPS53064FM 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, a fast switching function, and multiple access ports, which are suitable for access to LAN devices of various scales. It is suitable for intelligent transportation, rail transportation, electric power industry, mining, petroleum, shipping, metallurgy green energy construction, and other industrial scenarios to build an economical, efficient, stable, and reliable communication network.

FEATURE

- Gigabit access, uplink SFP fiber port
- 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

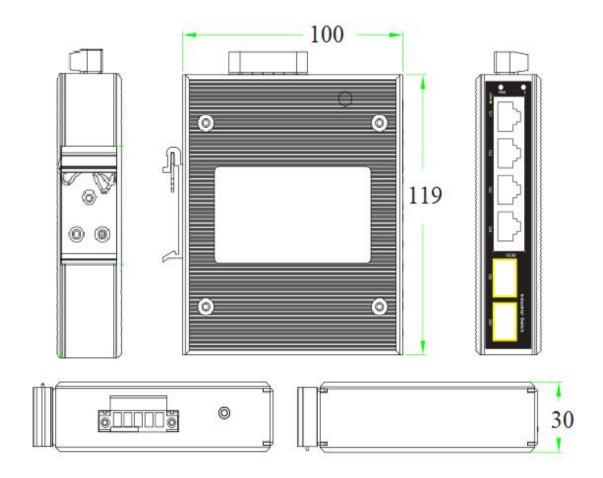
Model	ONV-IPS53064FM	
Interface Characteristics		
	1*DC5521 power socket	
Fixed Port	4*10/100/1000Base-T RJ45 ports (Data)	
	2*100/1000Base-X uplink SFP fiber ports (Data)	

	2 groups of V+, V- redundant DC power port (5P phoenix terminal)	
Ethernet Port	Port 1-4 support 10/100/1000Base-T auto-sensing, full/ half duplex MDI/	
	MDI-X self-adaption	
Twisted Pair	10BASE-T: Cat3,4,5 UTP (≤100 meters)	
Transmission	100BASE-TX: Cat5 or later UTP (≤100 meters)	
Halisillission	1000BASE-T: Cat5e or later UTP (≤100 meters)	
SFP Slot Port	Gigabit optical fiber interface, default no include optical module (optional	
3FF 3101 F011	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	10 (10/2)	
Management Type	L2 (Web management, platform management)	
Network Protocol	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)	
Switching Capacity	12Gbps (non-blocking)	
Forwarding	0.0014	
Rate@64byte	8.93Mpps	
MAC	2K	
Buffer Memory	2M	
Jumbo Frame	9.2K	
LED Indicator	Power/ System: SYS (Green), Fiber port: L/A (Green), Network: Link	
LED Indicator	(Yellow)	
	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 Consumption	Standby<4W, Full load<6W	

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Interface	DC12-48V, 5 Pin industrial Phoenix terminal, support anti-reverse		
	protection.		
Power Supply	No, optional 24V/ 24W industrial power supply		
Physical Parameter			
Operation TEMP /	-40°C~+75°C, 5%~90% RH Non condensing		
Humidity	-40 C~+75 C, 5%~90% KH Non condensing		
Storage TEMP /	-40°C~+85°C, 5%~95% RH Non condensing		
Humidity	-40 C*+03 C, 370*9370 REFINOR Condensing		
Dimension (L*W*H)	119*100*30mm		
Net /Gross Weight	0.4kg / 0.5kg		
Installation	Desktop, 35mm DIN Rail		
Certification & Warra	nty		
	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		
Lightning Protection	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	IEC60068-2-6 (Anti Vibration), IEC60068-2-32 (Free Fall), IEC60068-2-27		
Properties	(Anti Shock)		
Certification CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 C			

	RoHS	
Warranty	5 years, lifelong maintenance.	
Network Management Feature		
	Port status display, Port traffic statistics	
Interface	Port duplex/ negotiation rate configuration	
шенасе	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	
0.00	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)	
	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
ONV-IPS53064FM	L2 managed industrial Ethernet fiber switch with 4*10/100/1000M RJ45 ports and 2*100/1000M uplink SFP fiber ports. It can support dual DC power supply input and DIN rail mounting.	24V/24W
N 4 T		

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
	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
	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
1.25G	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
Optical Module	2613-R-G	Industrial SFP 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 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 Module	2633	1.25G SFP optical module transfers to 10/100/1000M RJ45 port.	PC

POWER SUPPLY

Product	Model	Description	Unit
24W DIN Rail Industrial Power Supply	GWS-DP24-24	DIN Rail 24W single set of output power supply Input Voltage: AC100V~240V 50-60H, 0.65A Output Voltage: DC24V 1.0A Operation Temperature: -40℃ to +70℃	PC

RELATED PRODUCT

Model	Description	
	L2 managed industrial Ethernet fiber switch with 5*10/100/1000M RJ45	
ONV-IPS53064FGM	ports and 1*100/1000M uplink SFP fiber port. It can support dual DC	
	power supply input and DIN rail mounting.	
ONV-IPS53008FM	L2 managed industrial Ethernet switch with 8*10/100/1000M RJ45	
	ports. It can support dual DC power supply input and DIN rail mounting.	
ONV-IPS53108FM	L2 managed industrial Ethernet fiber switch with 8*10/100/1000M RJ45	
	ports and 2*100/1000M uplink SFP fiber ports. It can support dual DC	
	power supply input and DIN rail mounting.	

CONTACT US

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