Product Datasheet

6-port Gigabit Easy Managed Industrial Ethernet Switch

(ONV-IPS53064M)



OVERVIEW

The ONV-IPS53064M is a Gigabit Easy managed industrial Ethernet switch independently developed by ONV. It has 4*10/100/1000Base-T auto-sensing RJ45 ports and 2*1000Base-T uplink RJ45 ports. Each port supports line-speed forwarding.

The ONV-IPS53064M supports web management, ONV-NMS cloud platform management, and cloud management APP management, enabling functions such as security network topology management, link aggregation, port management, port mirroring, and remote operation and maintenance. It boasts high-speed switching capabilities and multiple access ports, suitable for LAN devices of various sizes. Adhering to industrial product design and materials, it possesses excellent adaptability to industrial environments (including mechanical stability, climate adaptability, and electromagnetic environment adaptability). It is suitable for building cost-effective, stable, and reliable communication networks in industrial scenarios such as intelligent transportation, rail transit, power industry, mining, petroleum, shipping, metallurgy, and green energy construction.

FEATURE

Gigabit access, line-speed transmission

◇ Support non-blocking line-speed forwarding for smoother transmission.

◇ Support IEEE 802.3x full-duplex flow control and backpressure half-duplex flow control.

◇ Support line-speed gigabit adaptive RJ45 ports for flexible network configuration, meeting various networking needs.

Minimalist application

◇ Remote upgrade, remote reboot, and factory reset.

◇ Real-time fault alarms, fault location, and automatic work order dispatch.

◇ Local platform, cloud platform + mobile APP operation and maintenance management.

◇ Web-based network management functions include: QoS, link aggregation, ring network management, port mirroring, port control, and bandwidth management.

◇ It abandons complex network management configurations while retaining practical network management functions, enabling rapid network deployment and centralized operation and maintenance through the operation and maintenance platform.

Stable and reliable

◇ CE, FCC, RoHS.

◇ The user-friendly panel can show the device status through the LED indicators of PWR, SYS, and Link.

◇ Low power consumption, aluminum alloy housing, and excellent heat dissipation to ensure the stable operation of the switch.

TECHNICAL SPECIFICATION

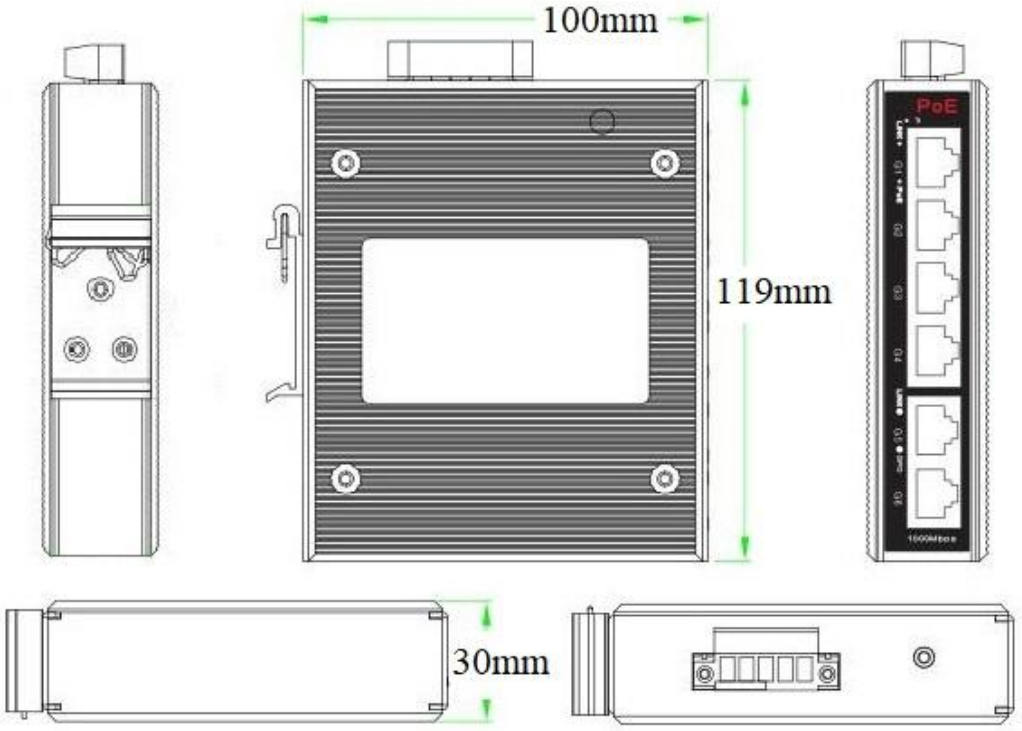
Model	ONV-IPS53064M
Interface Characteristics	
Fixed Port	1*DC5521 power jack 2*1000Base-T uplink RJ45 ports (Data)

	4*10/100/1000Base-T RJ45 ports (Data) 2 set V+, V- redundant DC power port (5P Phoenix terminal)
Ethernet Port	Ports 1-4 support 10/100/1000Base-T auto-sensing, full/ half duplex MDI/ MDI-X self-adaptation
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP (≤100 meters) 100BASE-TX: Cat5 or later UTP (≤100 meters) 1000BASE-T: Cat5e/6 or later UTP (≤100 meters)
Chip Parameter	
Network Management Type	L2
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), Fiber port: L/A (Green)
Reset Switch	Press and release after 6 seconds to restore factory default settings. Short press twice (1-second interval) to switch to unmanaged state
Power Supply	
Power Consumption	Standby<4W, full load<6W
Input Voltage/ Interface	DC12-57V; 5P industrial Phoenix terminal block and DC5521 power connector combination (terminal V2 and DC5521 are multiplexed power input ports) supports reverse connection protection.
Power Supply	No, optional 12V/12W or 24V/24W 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) FCC Part 15/CISPR22 (EN55022): Class A IEC61000-6-2 (Common Industrial Standard) IEC61000-4-9 (Pulsed magnetic field): 1000A/m IEC61000-4-10 (Damped oscillation): 30A/m 1MHz IEC61000-4-12/18 (Shock wave): 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
Mechanical Properties	IEC60068-2-6 (Anti Vibration), IEC60068-2-32 (Free Fall), IEC60068-2-27 (Anti Shock)
Certification	CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class A, RoHS
Warranty	5 years, lifelong maintenance
Network Management Feature	
Interface	EEE Energy-saving and green Ethernet function 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
QoS	Diff-Serv QoS, 8*Output queues of each port Priority Mark/ Remark, 802.1p/DSCP priority mapping
Security	Broadcast storm control, Port isolation, Port speed limit
DHCP	DHCP Snooping
Management	Mobile APP operation and maintenance management One-key recovery, Cable Diagnose, Web Management ONV-NMS Platform Management (Local Platform/ Cloud Platform)
System	Web browser: Mozilla Firefox 2.5 or later, Google Chrome 42 or later TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) are installed on each computer in the network using Category 5 or higher Ethernet cables.

DIMENSION



APPLICATION

ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS53064M	Easy managed industrial Ethernet switch with 4*10/100/1000M RJ45 ports and 2*1000M uplink RJ45 ports. It supports web management, cloud platform, and centralized maintenance via a mobile app. It also supports dual DC redundant power input (Phoenix terminal connection) and DIN rail mounting.	12W/24W
Note: The power supply is not included and needs to be purchased.		

PACKING LIST

	Content	Qty	Unit
Packing List	6-port Gigabit Easy managed industrial Ethernet switch	1	PC
	User Guide	1	PC
	Warranty Card and Certificate of Conformity	1	PC

POWER SUPPLY

Product	Model	Description	Unit
12W DIN Rail industrial power supply	GWS-DP12-12	DIN Rail 12W single-set output power supply Input voltage: AC100V~240V 50-60Hz, 0.5A Output voltage: DC12V, 1.0A Operation temperature: -40℃ to +70℃	PC
24W DIN Rail industrial power supply	GWS-DP24-24	DIN Rail 24W single-set output power supply Input voltage: AC100V~240V 50-60Hz, 0.5A Output voltage: DC24V, 1.0A Operation temperature: -40℃ to +70℃	PC

RELATED PRODUCT

Model	Description
ONV-IPS53064PFGM	Easy managed industrial Ethernet switch with 1*1000M uplink SFP fiber port and 5*10/100/1000M RJ45 ports. It supports web management, cloud platform, and centralized maintenance via a mobile app. It also supports dual DC redundant power input (Phoenix terminal connection) and DIN rail mounting.
ONV-IPS53108PFM	Easy managed industrial Ethernet switch with 2*1000M uplink SFP fiber ports and 8*10/100/1000M RJ45 ports. It supports web management, cloud platform, and centralized maintenance via a mobile app. It also supports

	dual DC redundant power input (Phoenix terminal connection) and DIN rail mounting.

CONTACT US

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