

Product Datasheet

6-port Gigabit Easy Managed Industrial PoE Switch (ONV-IPS53064PM)



OVERVIEW

The ONV-IPS53064PM is a Gigabit Easy managed industrial PoE switch independently developed by ONV. It has 4*10/100/1000Base-T adaptive RJ45 ports and 2*1000Base-T uplink RJ45 ports. Ports 1-4 can support the 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-IPS53064PM supports the ONV-NMS management platform and cloud management APP, enabling functions such as security network topology management, link aggregation, port management, PoE management, and remote operation and maintenance.

The switch boasts high reliability, ease of installation and maintenance, fast switching capabilities, and multiple access ports, making it suitable for LAN devices of various sizes.

FEATURE

■ 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.

■ 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.
- ◇ Visualized PoE power supply control, network topology management, VLAN segmentation, 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, Link, and PoE.
- ◇ Low power consumption, aluminum alloy housing, and excellent heat dissipation to ensure the stable operation of the switch.

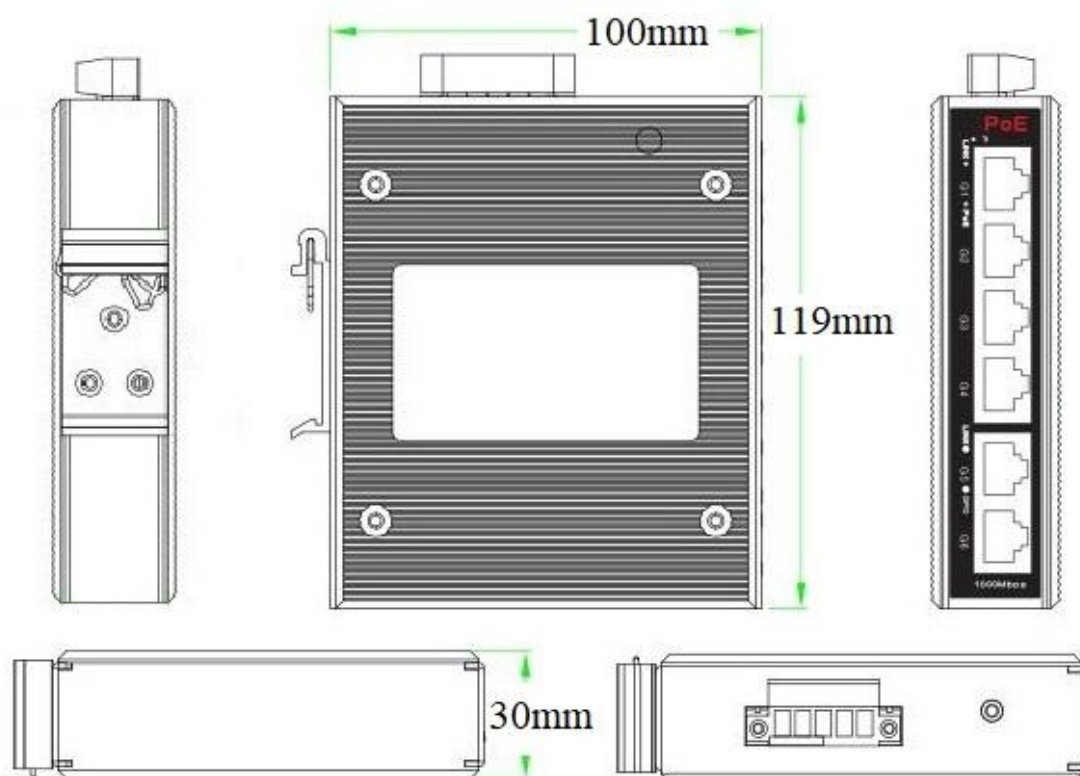
TECHNICAL SPECIFICATION

Model	ONV-IPS53064PM
Interface Characteristics	
Fixed Port	2*1000Base-T uplink RJ45 ports (Data) 4*10/100/1000Base-T PoE ports (Data/ Power) 2 set V+, V- redundant DC power port (5P Phoenix terminal)
Ethernet Port	Ports 1-4 can support 10/100/1000Base-T auto-sensing, full/ half duplex MDI/ MDI-X self-adaption
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), PoE: PoE (Green), 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
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<60W
Input Voltage/ Interface	DC44-57V, 5P industrial Phoenix terminal block supports 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) 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
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-IPS53064PM	Easy managed industrial PoE switch with 2*1000M uplink RJ45 ports and 4*10/100/1000M RJ45 ports. Ports 1-4 support the IEEE 802.3 af/at PoE standard. It can support dual DC redundant power input (Phoenix terminal connection) and DIN Rail mounting.	60W/120W

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 PoE switch	1	PC
	User Guide	1	PC
	Warranty Card and Certificate of Conformity	1	PC

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, 1.6A Output voltage: DC48V, 1.25A Operation temperature: -40℃ to +70℃	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℃ to +70℃	PC

RELATED PRODUCT

Model	Description
ONV-IPS53064PFGM	Easy managed industrial PoE switch with 1*1000M uplink SFP fiber port and 5*10/100/1000M RJ45 ports. Ports 1-4 support the IEEE 802.3 af/at PoE standard. It can support dual DC redundant power input (Phoenix terminal connection) and DIN Rail mounting.
ONV-IPS53108PFM	Easy managed industrial PoE switch with 2*100/1000M uplink SFP fiber ports and 8*10/100/1000M RJ45 ports. Ports 1-8 support the IEEE 802.3 af/at PoE standard. It can support dual DC redundant power input (Phoenix terminal connection) and DIN Rail mounting.

CONTACT US



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