Product Datasheet

8-port Full Gigabit Cloud Managed Industrial Ethernet Switch (ONV-IPS53008M)



OVERVIEW

The ONV-IPS53008M is a full Gigabit cloud managed industrial Ethernet switch independently developed by ONV. It has 8*10/100/1000Base-T adaptive RJ45 ports. Each port can support wire-speed forwarding.

The ONV-IPS53008M 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. ONV-IPS53008M switch follows the design and materials of industrial products. The shell is made of aluminum alloy to enhance heat dissipation, and has excellent adaptability to industrial site environment, The protection level is IP40, supports dual redundant power supply, MTBF up to 35 years, and 5 years warranty. It is suitable for intelligent transportation, rail transportation, electric power industry, mining, petroleum, shipping, metallurgy and green energy construction and other industrial scenarios to build an economical, efficient, stable and reliable communication network.

FEATURE

■ Gigabit access, full wire-speed forwarding

- ♦ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.
- Support non-blocking wire-speed forwarding for smoother transmission, meeting the networking requirements 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.
- ♦ Low power consumption, No fan, aluminum shell, excellent heat dissipation to ensure the stable operation of the switch.



TECHNICAL SPECIFICATION

Model	ONV-IPS53008M	
Interface Characteristics		
Fixed Port	1*DC5521 power socket	
	8*10/100/1000Base-T RJ45 ports (Data)	
	2 groups of V+, V- redundant DC power port (5P phoenix terminal)	
Ethernet Port	Port 1-8 support 10/100/1000Base-T auto-sensing, full/ half duplex MDI/	
Ememer 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)	
Chip Parameter		
Network	LO (Mala magragia magragia magragia magragia magragia)	
Management Type	L2 (Web management, platform management)	
National Destand	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T	
Network Protocol	IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T, IEEE802.3x	
Forwarding Mode	Store and Forward(Full wire-speed)	
Switching Capacity	16Gbps	
Forwarding	44.0014	
Rate@64byte	11.90Mpps	
MAC	8K	
Buffer Memory	2M	
Jumbo Frame	9.2K	
LED Indicator	Power/ System: SYS (Green), Network: Link (Yellow)	
Reset Switch	Press and hold for 6 seconds and release to restore the factory default	
	settings, short press 2 times (1 second interval) to switch to the	
	unmanaged state	
Power Supply		

Total Power/ Input Voltage	6W/ 12-57VDC	
Power Consumption	Standby<3W, Full load<6W	
Interface	5 Pin industrial phoenix terminal and DC5521 power socket combination, support anti-reverse connection protection	
Power Supply	No, optional industrial power 12V/12W or 24V/24W or 12V power adapter	
Physical Paramete	r	
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)	116*84.3*40mm	
Net /Gross Weight	<0.4kg / <0.6kg	
Installation	Desktop, 35mm DIN rail	
Certification & War	ranty	
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 IEC61000-4-6 (Radio frequency transmission):10V (150kHz~80MHz)	

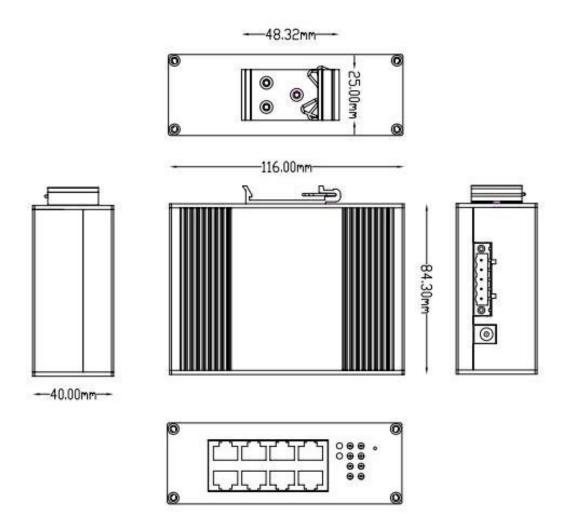


	IEC61000-4-5 (Surge): Power cable: CM±4kV/DM±2kV, data cable: ±4kV	
	IEC61000-4-8 (Power frequency magnetic field):100A/m, 1000A/m,1s to	
	3s	
Mechanical	IEC60068-2-6 (anti vibration), IEC60068-2-27 (anti shock)	
Properties	IEC60068-2-32 (free fall)	
0 - 4:5 - 4:	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B,	
Certification	RoHS	
Warranty	5 years, lifelong maintenance.	
Naturals Management Footunes		

Network Management Features

Network management reatures		
Interface	Port status display, Port traffic statistics	
	Port duplex/ negotiation rate configuration	
	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	
QoS	Diff-Serv QoS, Priority Mark/ Remark	
	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	Category 5 Ethernet network cable	
	Web browser: Firefox 2.5 or higher, Google browser chrome V42 or higher,	
	Microsoft Internet Explorer10 or later	
	TCP/IP, network adapter, and network operating system (such as Microsoft	

DIMENSION



ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS53008M	L2 managed industrial Ethernet switch with 8*10/100/1000M RJ45 ports. It can support redundant dual DC power input and DIN rail mounting.	12W/24W
Note: Industrial Ethernet switch does not include power supply.		

PACKING LIST

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

POWER SUPPLY

Product	Model	Description	Unit
12W DIN Rail Industrial 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, 1.0A Operation Temperature: -40℃ to +70℃	PC
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
ONV-IPS53064FGM	L2 managed industrial Ethernet fiber switch with 5*10/100/1000M
	RJ45 ports and 1*100/1000M SFP port. It can support redundant
	dual DC power input and DIN rail mounting.
ONV-IPS53064FM	L2 managed industrial Ethernet fiber switch with 4*10/100/1000M
	RJ45 ports and 2*100/1000M SFP ports. It can support redundant
	dual DC power input and DIN rail mounting.

ONV-IPS53108FM

L2 managed industrial Ethernet fiber switch with 8*10/100/1000M

RJ45 ports and 2*100/1000M SFP ports. It can support redundant

dual DC power input and DIN rail mounting.

CONTACT US

ONV Optical Network Video Technologies (Shenzhen) Co., Ltd.

Tel: 0086-755-33376606

Fax: 0086-755-33376608

WeChat: ONV-PoE-IoT

Email: onv@onv.com.cn

Skype: onv@onv.com.cn

Website: www.onvcom.com

Headquarter Address: Room 1003, Block D, Terra Building, Futian District, Shenzhen,

China

Factory Address: Floor 4-6, Building A, Senyutai Industrial Park, No. 111, Huaning Road,

Xinshi Community, Dalang Street, Longhua District, Shenzhen, China

