Product Datasheet

10-port Gigabit Easy Managed Industrial Ethernet Switch (ONV-IPS53108FM)



OVERVIEW

The ONV-IPS53108FM is a Gigabit Easy managed industrial Ethernet fiber switch independently developed by ONV. It has 8*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-IPS53108FM 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 IEEE 802.3x and half-duplex based on Backpressure.
- Support Gigabit RJ45 port and SFP fiber 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.
- Visual network topology management, VLAN division, port control, and switching capacity management.
- Practical network management functions are retained according to industry application requirements, 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, Link, and L/A.
- ♦ Low power consumption, no fan, Aluminum alloy housing, and excellent heat dissipation to ensure the stable operation of the switch.



TECHNICAL SPECIFICATION

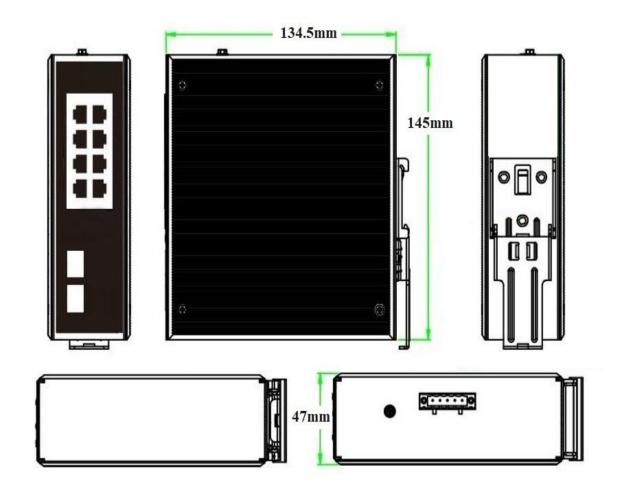
Model	ONV-IPS53108FM		
Interface Characterist	ics		
	1*DC5521 power jack		
Fixed Port	8*10/100/1000Base-T RJ45 ports (Data)		
	2*100/1000Base-X uplink SFP fiber ports (Data)		
	2 sets V+, V- redundant DC power port (5P phoenix terminal)		
Ethernet Port	Port 1-8 can support 10/100/1000Base-T auto-sensing, full/ half duplex		
Ellellel Folt	MDI/ 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)		
Ontical Fiber Part	Gigabit optical fiber interface, default no include optical module (optional		
Optical Fiber Port	single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)		
Optical Cable/	Multi-mode: 850nm/ 0-550m, Single-mode: 1310nm/ 0-40km, 1550nm/		
Distance	0-120km.		
Chip Parameter			
Network Management	1.0		
Туре	L2		
Nativanic Duata and	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	20Gbps (non-blocking)		
Forwarding Rate	14.88Mpps		
@64byte			
MAC	8K		
Buffer Memory	2M		
Jumbo Frame	9.2K		

LED ladicates	Power/ System: SYS (Green), Fiber port: L/A (Green), Network: Link		
LED Indicator	(Yellow)		
Reset Switch	Press for 6 seconds and then release to restore to factory settings		
Reset Switch	Short press twice (1 second interval) to switch to unmanaged state		
Power Supply			
Power Consumption	Standby<5W, Full load<8W		
lament Maltaga	DC12-48V, 5P industrial Phoenix terminal, and DC5521 power jack		
Input Voltage/ Interface	(terminal V2 and DC5521 are multiplexed power input ports) support		
menace	reverse connection protection.		
Power Supply	No, optional 12V/24W or 24V/24W industrial power supply		
Physical Parameter			
Operation Temp/	40a+75°C 50/a-000/ PH Non condensing		
Humidity	-40~+75°C, 5%~90% RH Non condensing		
Storage Temp/	-40~+85°C, 5%~95% RH Non condensing		
Humidity			
Dimension (L*W*H)	145*134.5*47mm		
Net /Gross Weight	0.75kg/ 1.0kg		
Installation	Desktop, 35mm DIN Rail		
Certification & Warranty			
	Protection level: IP40		
	Lightning protection: 6KV 8/20us		
	IEC61000-4-3 (RS):10V/m (80~1000MHz)		
	FCC Part 15/CISPR22 (EN55022): Class B		
Lightning Protection	IEC61000-6-2 (Common Industrial Standard)		
Lighting Froteodon	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		
Machaniaal Duanautiaa	IEC60068-2-6 (Anti Vibration), IEC60068-2-32 (Free Fall), IEC60068-2-27		
Mechanical Properties	(Anti Shock)		
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B,		
Certification	RoHS		
Warranty	5 years, lifelong maintenance.		
Network Management	Feature		
	Port status display, Port traffic statistics		
Interface	Port duplex/negotiation rate configuration		
Піспасе	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		
0-0	Diff-Serv QoS, 8*Output queues of each port, 802.1p/DSCP priority		
QoS	mapping, Priority Mark/Remark		
Security	Broadcast storm control, Port isolation, Port speed limit		
DHCP	DHCP Snooping		
	Mobile APP operation and maintenance management		
Management	One-key recovery, Cable Diagnose, Web Management		
	ONV-NMS platform management (Local platform/Cloud platform)		
	Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or		
System	higher, Category 5 and above Ethernet cables		
	TCP/IP, network adapter, and network operating systems (Such as		

Microsoft Windows, Linux or Mac OS X) are installed on each computer in the network with Category 5 and above Ethernet cables

DIMENSION



ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS53108FM	L2 Easy 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.	24W

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

PACKING LIST

	Content	Qty	Unit
Packing List	10-port gigabit Easy managed industrial Ethernet switch	1	SET
	User Guide	1	PC
	Warranty Card and Certificate of Conformity	1	PC

OPTICAL MODULE

Product	Model	Description	
		Industrial SFP optical module, 1.25G multi-mode dual fiber	
2630-G		850nm, transmission distance: 550m, LC interface. supports	PC
		DDM function and hot plugging.	
		Industrial SFP optical module, 1.25G single-mode dual fiber	
	2632-G	1310nm, transmission distance: 20km, LC interface. supports	PC
		DDM function and hot plugging.	
		Industrial SFP optical module, 1.25G single-mode single fiber	
1.25G	2612-T-G	TX1310nm/ RX1550nm, transmission distance: 20km, LC	PC
Optical		interface. supports DDM function and hot plugging.	
Module		Industrial SFP optical module, 1.25G single-mode single fiber	
	2613-R-G	TX1550nm/ RX1310nm, transmission distance: 20km, LC	PC
		interface. supports DDM function and hot plugging.	
		Industrial SFP optical module, 1.25G single-mode single fiber	
	2612-T-SC-G	TX1310nm/ RX1550nm, transmission distance: 20km, SC	PC
		interface. supports DDM function and hot plugging.	
	0040 P 00 0	Industrial SFP optical module, 1.25G single-mode single fiber	DO
	2613-R-SC-G	TX1550nm/ RX1310nm, transmission distance: 20km, SC	PC

POWER SUPPLY

Product	Model	Description	Unit
24W DIN Rail Industrial Power Supply	GWS-DP24-12	DIN Rail 24W single set of output power supply Input Voltage: AC100V~240V 50-60H, 0.35A Output Voltage: DC12V, 2.0A Operation Temperature: -40°C to +70°C	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, 0.35A Output Voltage: DC24V, 1.0A Operation Temperature: -40°C to +70°C	PC

RELATED PRODUCT

Model	Description		
	L2 Easy managed industrial Ethernet fiber switch with 5*10/100/1000M		
ONV-IPS53064FGM	RJ45 ports and 1*100/1000M uplink SFP fiber port. It can support dual		
	DC power supply input and DIN Rail mounting.		
ONV-IPS53064FM	L2 Easy 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.		
	L2 Easy managed industrial Ethernet switch with 8*10/100/1000M		
ONV-IPS53008M	RJ45 ports. It can support dual DC power supply input and DIN Rail		
	mounting.		

CONTACT US



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