Product Datasheet

2-port 10/100M Industrial Ethernet Switch

(ONV-IPS1021F)



OVERVIEW

The ONV-IPS1021F is a 10/100M industrial Ethernet fiber switch independently developed by ONV. It has 1*10/100Base-TX RJ45 port and 1*155M uplink SC fiber port, and each port can support full line-rate forwarding.

The ONV-IPS1021F has excellent industrial field environment adaptability (mechanical stability, climate adaptability, electromagnetic environment adaptability, etc.). The protection level is IP30 and 5-year warranty. It is suitable for industrial scenes such as intelligent transportation, rail transit, power industry, mining, petroleum, shipping, metallurgy, and green energy construction to form a cost-effective, stable, and reliable communication network. Unmanaged model, plug and play, no configuration, easy to use.

FEATURE

■ 10/100M access, Fast Ethernet

- Support non-blocking wire-speed forwarding.
- ♦ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.
- ♦ Support 10/100M RJ45 port and 155M SC fiber port combination to meet networking needs in various scenarios.

Stable and reliable

- ♦ CCC, CE, FCC, RoHS.
- ♦ The user-friendly panel can show the device status through the LED indicator of PWR and Link.
- ♦ Low power consumption, no fan, Aluminum alloy housing, and excellent heat dissipation to ensure the stable operation of the switch.

TECHNICAL SPECIFICATION

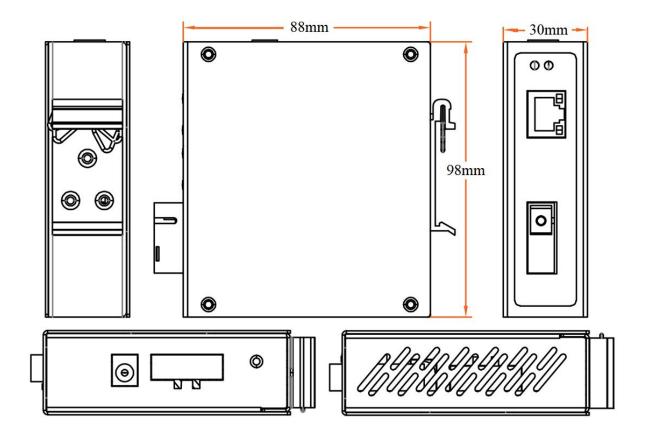
Model	ONV-IPS1021F				
Interface Characteristics					
	1*DC5521 power socket				
Fixed Port	1*155M uplink SC fiber port (Data)				
Fixed Port	1*10/100Base-TX RJ45 port (Data)				
	2 sets V+, V- redundant DC power port (3P Phoenix terminal)				
Ethamat Davi	Port 1 can support 10/100Base-T(X) auto-sensing, full/ half duplex MDI/ MDI-X				
Ethernet Port	self-adaption				
Twisted Pair	10BASE-T: Cat3,4,5 UTP (≤100 meters)				
Transmission	100BASE-TX: Cat5 or later UTP (≤100 meters)				
Optical Fiber Port	Default optical module is single-mode dual fiber 20km, SC port				
Optical Cable/	Multi-mode: 850nm/ 0-550m, 1310nm/ 0-2km, Single-mode: 1310nm/ 0-40km,				
Distance	1550nm/ 0-120km				

Chip Parameter			
Nichwalls Ducks and	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX,		
Network Protocol	IEEE 802.3u 100Base-FX, IEEE 802.3x		
Forwarding Mode	Store and Forward (Full Wire Speed)		
Switching Capacity	1.2Gbps (non-blocking)		
Forwarding Rate	0.3Mpps		
@64byte			
MAC	2K		
Buffer Memory	512K		
Jumbo Frame	2048bytes		
LED Indicator	Power: PWR (Green), Network: Link (Yellow), Fiber port: 2 (Green)		
Power Supply			
Power Consumption	Standby<3W, Full load<5W		
Working Voltage	DC12-48V, 3P industrial phoenix terminal, anti-reverse protection.		
Power Supply	No, optional 12V/24W or 24V/24W industrial power supply		
Physical Parameter			
Operation Temp/	-40~+75°C, 5%~90% RH Non condensing		
Humidity	-40~+75 C, 5%~90% KH Non condensing		
Storage Temp/	-40~+85°C, 5%~95% RH Non condensing		
Humidity	-40 100 C, 370 3570 Kit Non condensing		
Dimension (L*W*H)	98*88*30mm		
Net /Gross Weight	0.25kg / 0.35kg		
Installation	Desktop, DIN Rail		
Certification & Warra	nty		
	Protection level: IP30		
	Lightning protection: 6KV 8/20us		
Lightning Protection	IEC61000-4-3 (RS):10V/m (80~1000MHz)		
	FCC Part 15/CISPR22 (EN55022): Class B		
	IEC61000-6-2 (Common Industrial Standard)		

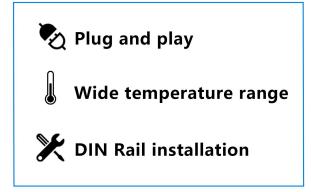
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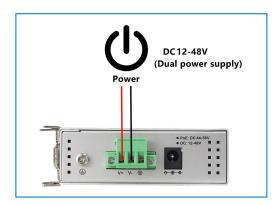
	IEC61000-4-9 (Pulsed magnet field): 1000A/m	
	1200 1000-4-9 (Fulsed magnet field). 1000A/m	
	IEC61000-4-10 (Damped oscillation): 30A/m 1MHz	
	IEC61000-4-12/18 (Shockwave): CM2.5kV, DM1kV	
	IEC61000-4-4(EFT): Power cable: ±4kV, data cable: ±2kV	
IEC61000-4-16 (Common-mode transmission): 30V, 300V, 1s		
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 Class B, RoHS	
Warranty	5 years, lifelong maintenance.	

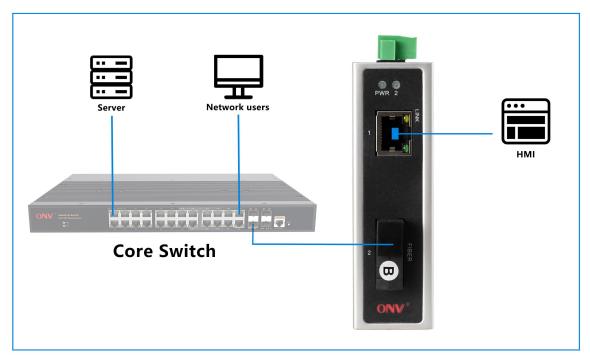
DIMENSION



APPLICATION







ORDERING INFORMATION

	Model	Description	Recommended
	Wodel	Description	Power Supply
	ONV-IPS1021F	Unmanaged industrial Ethernet fiber switch with 1*10/100M	
		RJ45 port and 1*155M uplink SC fiber port (1310nm/ 20km	0.4147
		single-mode dual fiber optical module). It can support dual	24W
		DC power input and DIN rail mounting.	

	Unmanaged industrial Ethernet fiber switch with 1*10/100M		
ONV-IPS1021F-A	RJ45 port and 1*155M uplink SC fiber port (1310nm/ 20km	24\\\	
	single-mode single fiber optical module). It can support dual	24W	
	DC power input and DIN rail mounting.		
	Unmanaged industrial Ethernet fiber switch with 1*10/100M		
ONV-IPS1021F-B	RJ45 port and 1*155M uplink SC fiber port (1550nm/ 20km	24W	
	single-mode single fiber optical module). It can support dual		
	DC power input and DIN rail mounting.		

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Note: The power supply is not included and needs to be purchased.

PACKING LIST

	Content	Qty	Unit
Packing List	2-port 10/100M industrial Ethernet switch	1	SET
	User Guide	1	PC
	Warranty Card and Certificate of Conformity	1	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℃ 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, 0.35A Output Voltage: DC24V, 1.0A Operation Temperature: -40℃ to +70℃	PC

CONTACT US

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