Product Datasheet

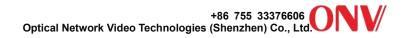
2-port 10/100M Industrial Ethernet Fiber Switch (ONV-IPS1021F)



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 SC fiber port. Each port can support full line-rate forwarding.

The ONV-IPS1021F has excellent industrial field environment adaptability (including mechanical stability, climate adaptability, electromagnetic environment adaptability, etc.). low power consumption and no fan, 5-year warranty. The protection level is IP30, and it supports dual redundant power supply. It is suitable for industrial scenes such as intelligent transportation, rail transit, electric power, mining, metallurgy and green energy construction to form a cost-effective and stable communication network. Unmanaged mode, 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 Ethernet port and 155M SC optical port combination, which enables users to flexibly build networking to meet the needs of various scenarios.

Stable and reliable

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

TECHNICAL SPECIFICATION

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

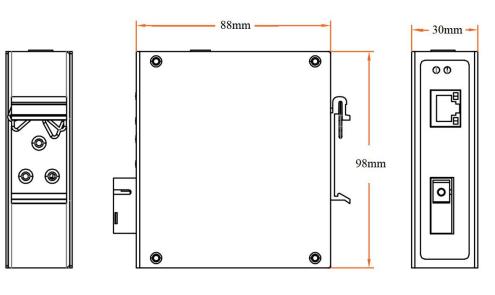
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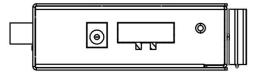
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX		
Network I Totocol	IEEE802.3x		
Forwarding Mode	Store and Forward (Full Wire Speed)		
Switching Capacity	1.0Gbps (no-blocking)		
Forwarding	0.3Mpps		
Rate@64byte			
MAC	2K		
Buffer Memory	512Kb		
Jumbo Frame	2048B		
LED Indicator	Power: PWR (Green), Network: Link (Yellow), Fiber port: (Green)		
Power Supply			
Power Consumption	Standby<3W, Full load<5W		
Operating Voltage	DC12-48V, 3P industrial phoenix terminal, support anti-reverse protection.		
Power Supply	No, optional 24W/24V industrial power supply		
Physical Parameter			
Operation TEMP/	-40°C to 75°C, 5%~90% RH Non condensing		
Humidity			
Storage TEMP/	-40°C to 85°C, 5%~95% RH Non condensing		
Humidity			
Dimension (L*W*H)	98*88*30mm		
Net /Gross Weight	<0.2kg / <0.3kg		
Installation	Desktop, DIN Rail		
Certification & Warra	nty		
	Protection level: IP30, Lightning protection: 6KV 8/20us		
Lishtaina Daata stian	IEC61000-4-3 (RS):10V/m (80~1000MHz)		
	FCC Part 15/CISPR22 (EN55022): Class B		
Lightning Protection	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
IEC61000-4-2 (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



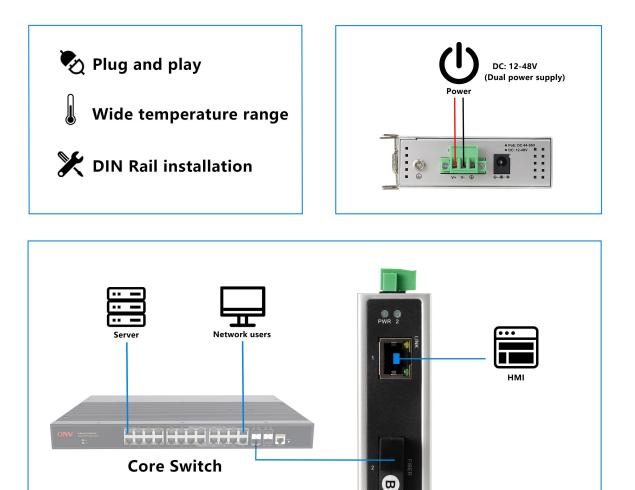






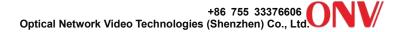
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APPLICATION



ORDERING INFORMATION

Model	Description	Recommended	
Model	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	0.4111/0.411	
	single-mode dual fiber module). It can support DC dual	24W/24V	
	redundant power input and DIN rail mounting.		
ONV-IPS1021F-A	Unmanaged industrial Ethernet fiber switch with 1*10/100M	0.4111/0.411	
	RJ45 port and 1*155M uplink SC fiber port (1310nm/ 20km	24W/24V	



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	single-mode single fiber module). It can support DC dual	
	redundant power input and DIN rail mounting.	
ONV-IPS1021F-B	Unmanaged industrial Ethernet fiber switch with 1*10/100M	
	RJ45 port and 1*155M uplink SC fiber port (1550nm/ 20km	24W/24V
	single-mode single fiber module). It can support DC dual	
	redundant power input and DIN rail mounting.	
Note: The power supply is not included, and needs to be purchased separately		

PACKING LIST

Packing List	Content	Qty	Unit
	2-port 10/100M industrial Ethernet fiber switch	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

POWER SUPPLY

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

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