Product Datasheet

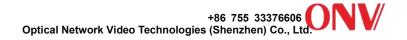
2-port Full Gigabit Industrial Ethernet Fiber Switch (ONV-IPS3021F)



OVERVIEW

The ONV-IPS3021F is a full gigabit industrial Ethernet fiber switch independently developed by ONV. It has 1*10/100/1000Base-T adaptive RJ45 port and 1*1000Base-X uplink SC single-mode dual fiber optical module (optional single-mode single fiber optical module). Each port can support full line-rate forwarding.

The ONV-IPS3021F has excellent industrial field environment adaptability (including mechanical stability, climate adaptability, electromagnetic environment adaptability, etc.). protection level is IP30, it supports dual redundant power supply, low power consumption and no fan, 5-year warranty. 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

Gigabit line speed access, Gigabit optical port uplink

- ♦ Support non-blocking wire-speed forwarding.
- ♦ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.
- Support Gigabit Ethernet port and Gigabit 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-IPS3021F
Interface Characteri	istics
	1*DC5521 power socket
Fixed Port	1*1000Base-X SC port (Data)
	1*10/100/1000Base-T RJ45 port (Data)
	2 set of V+, V- redundant DC power interface (3P Phoenix terminal)
Ethernet Port	Port 1 support 10/100/1000Base-T(X) 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 or later UTP(≤100 meters)
Fiber Port	Gigabit single-mode dual fiber SC optical module (optional single-mode
	single fiber optical module)
Optical Cable/	Multi-mode: 850nm/ 0-550m

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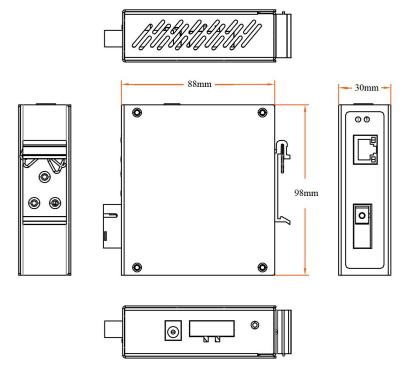
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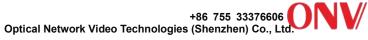
Distance	Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km.		
Chip Parameter			
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IIEEE802.3x		
Forwarding Mode	Store and Forward (Full Wire Speed)		
Switching Capacity	12Gbps (no-blocking)		
Forwarding	8.93Mpps		
Rate@64byte			
MAC	2К		
Buffer Memory	2Mb		
Jumbo Frame	9216B		
LED Indicator	Power: PWR (Green), Network: Link (Yellow), Fiber port: G2(Green)		
Power Supply			
Power	Standby<3W, Full load<5W		
Consumption			
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~+75°C, 5%~90% RH Non condensing		
Humidity			
Storage TEMP/	-40~+85°C, 5%~95% RH Non condensing		
Humidity			
Dimension (L*W*H)	98*88*30mm		
Net /Gross Weight	<0.2kg / <0.3kg		
Installation	Desktop, 35mm DIN rail		
Certification & Warranty			
	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		

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	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)	
Properties	IEC60068-2-27 (Anti Shock)	
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B,	
	RoHS	
Warranty	5 years, lifelong maintenance.	

DIMENSION

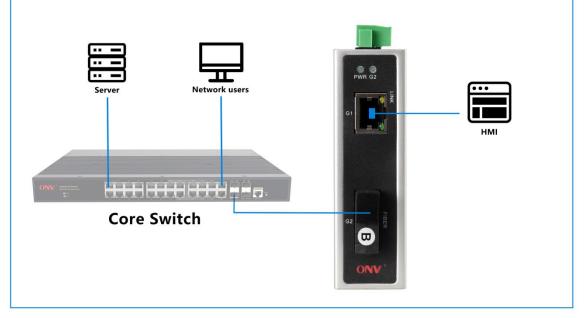




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APPLICATION





ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS3021F	Unmanaged industrial Ethernet switch with 1*10/100/1000M RJ45 port and 1*1000M uplink SC port (1310nm/20km single-mode dual fiber module). It can support DC redundant power supply input and DIN rail mounting.	24W/24V
ONV-IPS3021F-A	Unmanaged industrial Ethernet switch with 1*10/100/1000M	24W/24V

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	RJ45 port and 1*1000M uplink SC port (1310nm/20km		
	single-mode single fiber module). It can support DC redundant		
	power supply input and DIN rail mounting.		
ONV-IPS3021F-B	Unmanaged industrial Ethernet switch with 1*10/100/1000M		
	RJ45 port and 1*1000M uplink SC port (1550nm/20km	24W/24V	
	single-mode single fiber module). It can support DC redundant	Z4VV/Z4V	
	power supply 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 full gigabit industrial Ethernet fiber switch	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

POWER SUPPLY

Product	Model	Description	Unit
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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