#### **Product Datasheet**

# 5-port 10/100M Industrial Ethernet Switch

(ONV-IPS1004F)



### **OVERVIEW**

The ONV-IPS1004F is a 10/100M Industrial Ethernet fiber switch independently developed by ONV. It has 4\*10/100M RJ45 ports and 1\*155M uplink SC fiber port, and each port can support full line-rate forwarding.

The ONV-IPS1004F 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 IEEE 802.3x and half duplex based on Backpressure
- Support 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.

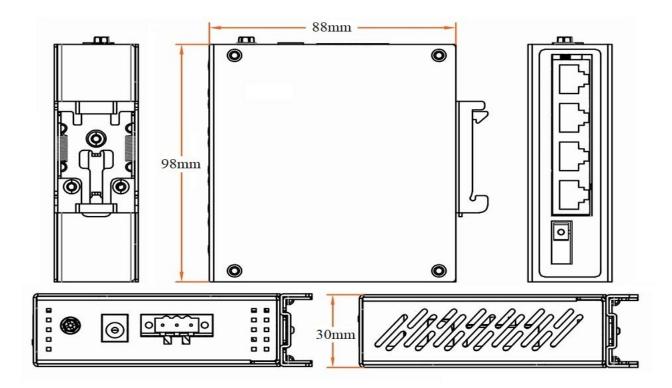
### **TECHNICAL SPECIFICATION**

Model	ONV-IPS1004F	
Interface Characteris	tics	
	1*DC5521 power socket	
Fixed Port	1*155M uplink SC fiber port(Data)	
FIXEU PUIL	4*10/100Base-TX RJ45 ports(Data)	
	2 sets V+, V- redundant DC power port (3P Phoenix terminal)	
Ethernet Port	Port 1-4 can support 10/100Base-T(X) auto-sensing, full/ half duplex MDI/	
Ellemet Fort	MDI-X self-adaption	
Twisted Pair	10BASE-T: Cat3,4,5 UTP (≤100 meters)	
Transmission	100BASE-TX: Cat5e 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/	
Distance	0-40km, 1550nm/ 0-120km	

Chip Parameter				
Omp i arameter	IEEE 000 2 40DACE T IEEE 000 2: 40Daas T IEEE 000 2: 400Daas TV			
Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX,			
	IEEE 802.3u 100Base-FX, IEEE 802.3x			
Forwarding Mode	Store and Forward (Full Wire Speed)			
Switching Capacity	1.0Gbps (non-blocking)			
Forwarding Rate	0.744Mpps			
@64byte				
MAC	2K			
Buffer Memory	512K			
Jumbo Frame	2048bytes			
LED Indicator	Power: PWR(Green), Network: Link 1-4 (Green), Fiber port: FX (Green)			
Power Supply				
Power Consumption	Standby<3W, Full load<5W			
Power Supply	No, optional 12V/24W or 24V/24W industrial power supply			
Working Voltage	DC12-48V, 3P industrial phoenix terminal, anti-reverse protection.			
Physical Parameter				
Operation TEMP/	40 .75°O 50′ 000′ DI Nor condension			
Humidity	-40~+75°C, 5%~90% RH Non condensing			
Storage TEMP/	40			
Humidity	-40~+85°C, 5%~95% RH 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)			

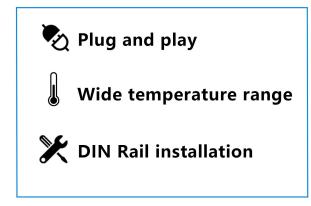
	IEC61000-4-9 (Pulsed magnet field): 1000A/m	
	IEC61000-4-10 (Damped oscillation): 30A/m 1MHz	
	IEC61000-4-12/18 (Shockwave): CM2.5kV, DM1kV	
	IEC61000-4-4(EFT): Power cable: ±4kV, data cable: ±2kV	
	IEC61000-4-16 (Common-mode transmission): 30V, 300V, 1s	
	IEC61000-4-2 (ESD): ±8kV contact discharge, ±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)	
Cartification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B,	
Certification	RoHS	
Warranty	5 years, lifelong maintenance.	

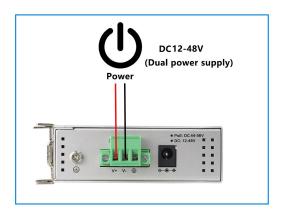
# **DIMENSION**

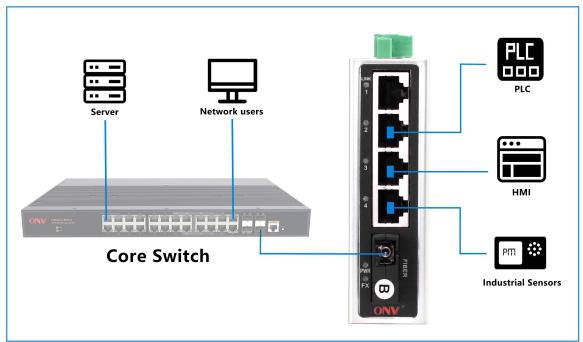




### **APPLICATION**







## **ORDERING INFORMATION**

Model	Model Description Recommendation Power States	
ONV-IPS1004F	Unmanaged industrial Ethernet fiber switch with 4*10/100M RJ45 ports and 1*155M uplink SC fiber port (1310nm/ 20km single-mode dual fiber optical module). It can support dual DC power input and DIN rail mounting.	24W
ONV-IPS1004F-A	Unmanaged industrial Ethernet fiber switch with 4*10/100M	24W

	RJ45 ports and 1*155M uplink SC fiber port (1310nm/ 20km	
	single-mode single fiber optical module). It can support dual	
	DC power input and DIN rail mounting.	
	Unmanaged industrial Ethernet fiber switch with 4*10/100M	
ONV-IPS1004F-B	RJ45 ports and 1*155M uplink SC fiber port (1550nm/ 20km	24W
ONV-IF31004F-B	single-mode single fiber optical module). It can support dual	24 V V
	DC power input and DIN rail mounting.	

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

# **PACKING LIST**

	Content	Qty	Unit
Danking Lint	5-port 10/100M industrial Ethernet switch	1	SET
Packing List	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



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