

Product Datasheet

5-port 10/100M industrial Ethernet Fiber Switch

ONV-IPS31004F



OVERVIEW

The ONV-IPS31004F is a 10/100M Industrial Ethernet fiber switch independently developed by ONV. It has 4 *10/100M RJ45 ports and 1*155M SC fiber port, and each port can support full line-rate forwarding.

The ONV-IPS31004F industrial Ethernet switch has excellent industrial field environment adaptability (mechanical stability, climate adaptability, electromagnetic environment adaptability, etc.), protection level is IP40, it support for dual power supply, low power consumption, no fan cooling technology, MTBF is 35 years, 5 years warranty, unmanaged models, plug and play, no configuration, easy to use. 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.

FEATURE

■ 10/100M TP/SC port, fast Ethernet

- ◇ All series support "10/100M RJ45 port and 155M SC fiber port" combination, which enables users to flexibly build networking to meet the needs of various scenarios.
- ◇ Support non-blocking wire-speed forwarding.
- ◇ Support full-duplex based on IEEE802.3x and half-duplex based on backpressure.

■ Stable and reliable

- ◇ Low power consumption, no fan , aluminum casing.
- ◇ CCC,CE, FCC, RoHS.
- ◇ The user-friendly panel, it can show the device status through the LED indicator of PWR, Link .

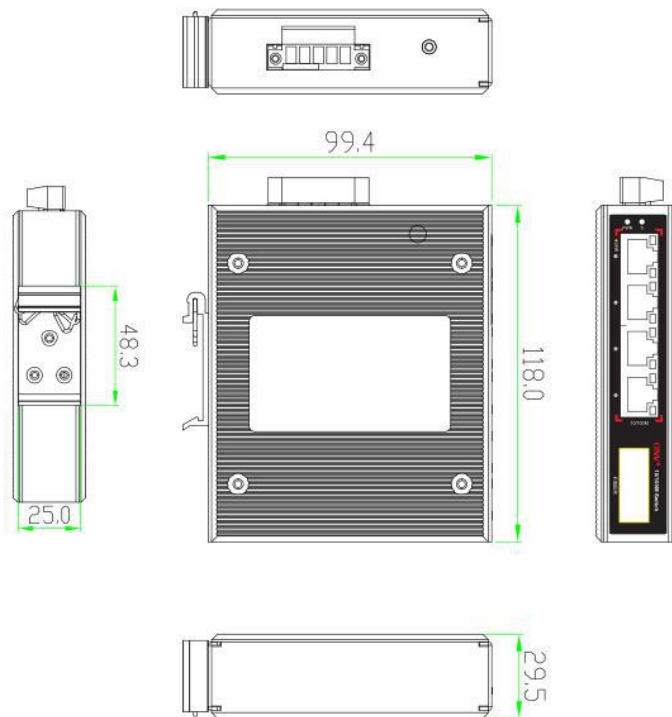
TECHNICAL SPECIFICATION

Model	ONV-IPS31004F
Interface Characteristics	
Fixed Port	4*10/100Base-TX RJ45 ports(Data) 1*155M uplink SC slot port(Data) 2 set of V+, V- redundant DC power interface (5P Phoenix terminal)
Ethernet Port	Port 1-4 support 10/100Base-TX, auto-sensing, Full/half duplex MDI/MDI-X self-adaption
Twisted Pair	10BASE-T: Cat3,4,5 UTP(≤100 meter)
Transmission	1000BASE-T: Cat5e or later UTP(≤100 meter)
SC Slot Port	Default optical module is single-mode dual-fiber 20km, SC interface
Optical Cable/ Distance	Multi mode: 850nm ,0 ~ 550M, 1310nm,0~2km single mode: 1310nm 0 ~ 40KM, 1550nm 0 ~ 120KM.
Chip Parameter	
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3u 100Base-FX

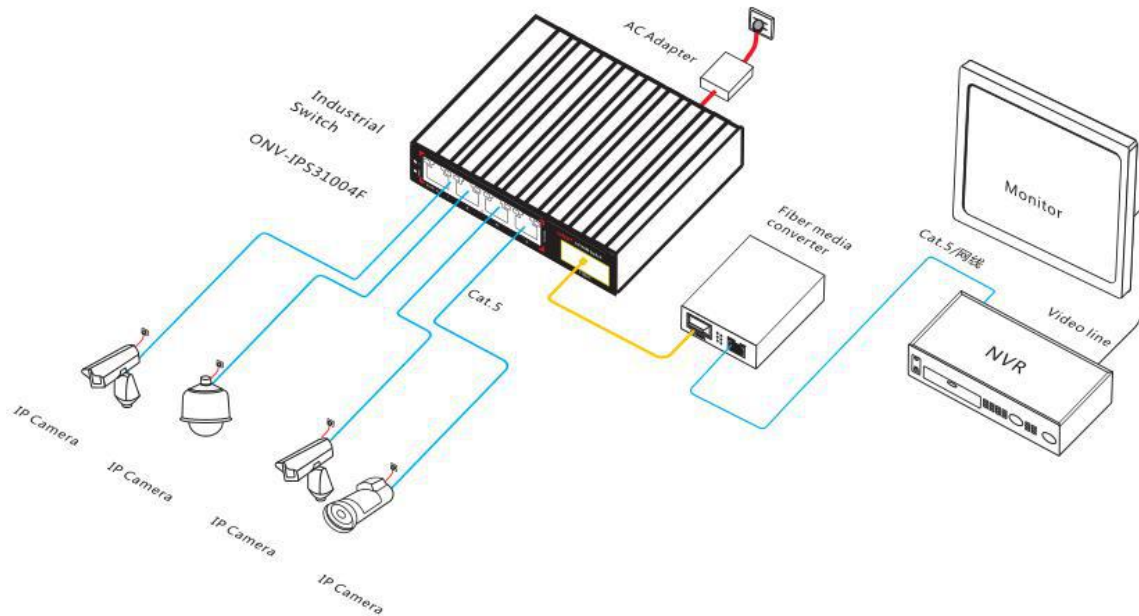
	IEEE802.3x
Forwarding Mode	Store and Forward(Full Wire Speed)
Switching Capacity	1.6Gbps
Forwarding Rate@64byte	0.744Mpps
MAC	1K
Buffer Memory	768K
Jumbo Frame	1632byte
LED Indicator	Power:PWR(green), network: Link,(yellow), Fiber port :L/A (green)
Power	
Power Consumption	Standby<3W, Full load<6W
Power Supply	No, optional 24V24W industrial power supply
Working Voltage	12-48VDC; 5P industrial Phoenix terminal, support anti-reverse protection.
Physical Parameter	
Operation TEMP / Humidity	-40~+80°C;5%~90% RH Non condensing
Storage TEMP / Humidity	-40~+85°C;5%~95% RH Non condensing
Dimension (L*W*H)	145*134.5*47.5mm
Net /Gross Weight	<0.5kg / <0.7kg
Installation	Desktop, DIN rail
Certification & Warranty	
Lightning protection / protection level	Lightning protection: 6KV 8/20us; Protection level: IP40 IEC61000-4-2(ESD):±8kV contact discharge,±15kV air discharge IEC61000-4-3(RS):10V/m(80~1000MHz) IEC61000-4-4(EFT): power cable:±4kV; data cable:±2kV IEC61000-4-5(Surge):power cable:CM±4kV/DM±2kV; data cable:±4kV

	<p>IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz)</p> <p>IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m ,1s to 3s</p> <p>IEC61000-4-9(pulsed magnet field):1000A/m</p> <p>IEC61000-4-10(damped oscillation):30A/m 1MHz</p> <p>IEC61000-4-12/18(shockwave):CM 2.5kV,DM 1kV</p> <p>IEC61000-4-16(common-mode transmission):30V; 300V,1s</p> <p>FCC Part 15/CISPR22(EN55022):Class A</p> <p>IEC61000-6-2(Common Industrial Standard)</p>
Mechanical Properties	<p>IEC60068-2-6 (anti vibration)</p> <p>IEC60068-2-27 (anti shock)</p> <p>IEC60068-2-32 (free fall)</p>
Certification	<p>CCC;CE mark, commercial; CE/LVD EN60950;FCC Part 15 Class B;</p> <p>RoHS;</p>
Warranty	<p>5 years, lifelong maintenance.</p>

DIMENSION



APPLICATION



ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS31004F	Unmanaged industrial Ethernet fiber switch with 4*10/100M RJ45 ports and 1*155M SC port. By default, the SC port 1310nm/20km single-mode dual-fiber module. It can support DC dual redundant power input and DIN rail mounting.	12W/24W
ONV-IPS31004F-M	Unmanaged industrial Ethernet fiber switch with 4*10/100M RJ45 ports and 1*155M SC port. By default, the SC port 850nm/0.5km or 1310nm/2km multi-mode dual fiber	12W/24W

	module. It can support DC dual redundant power input and DIN rail mounting.	
ONV-IPS31004F-A	Unmanaged industrial Ethernet fiber switch with 4*10/100M RJ45 ports and 1*155M SC port. By default, the SC port 1310nm/20km single-mode single-fiber module. It can support DC dual redundant power input and DIN rail mounting.	12W/24W
ONV-IPS31004F-B	Unmanaged industrial Ethernet fiber switch with 4*10/100M RJ45 ports and 1*155M SC port. By default, the SC port 1550nm/20km single-mode single-fiber module. It can support DC dual redundant power input and DIN rail mounting.	12W/24W

Note: Industrial Ethernet switch does not match the power supply.

PACKING LIST

	CONTENT	QTY	UNIT
PACKING LIST	5-port 10/100M industrial Ethernet fiber switch	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

POWER SUPPLY SELECTION TABLE

Product	Model	Description	Unit
12W DIN Rail Industrial Power Supply	GWS-DP12-12	Din Rail type 12W single set of output power supply; Input Voltage:AC 100V~240V 50-60H,0.35A Output Voltage:DC 12V 1A Operation Temperature:-40℃—+70℃	PC
12W DIN Rail Industrial Power Supply	GWS-DP12-24	Din Rail type 12W single set of output power supply; Input Voltage:AC 100V~240V 50-60H,0.35A Output Voltage:DC 24V 0.5A Operation Temperature:-40℃—+70℃	PC

RELATED PRODUCT

Model	Description
ONV-IPS31021F	Unmanaged industrial Ethernet fiber switch with 1*10/100M RJ45 port and 1*155M SC port. It can support DC dual redundant power input and DIN rail mounting.
ONV-IPS31032F	Unmanaged industrial Ethernet fiber switch with 2*10/100M RJ45 ports and 1*155M SC port. It can support DC dual redundant power input and DIN rail mounting.

ONV-IPS31064F	Unmanaged industrial Ethernet fiber switch with 4*10/100M RJ45 ports and 2*155M SC port. It can support DC dual redundant power input and DIN rail mounting.
ONV-IPS31108FB	Unmanaged industrial Ethernet fiber switch with 8*10/100M RJ45 ports and 2*10/100/1000M RJ45 ports and 2*1000M SFP slot ports (combo port). It can support DC dual redundant power input and DIN rail mounting.

CONTACT US



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