Product Datasheet

5-port 10/100M Industrial PoE Switch

(ONV-IPS31004PF)



OVERVIEW

The ONV-IPS31004PF is a 10/100M industrial PoE fiber switch independently developed by ONV. It has 4*10/100M adaptive RJ45 ports and 1*155M SC fiber port. Port 1-4 can support IEEE 802.3 af/at PoE standard and single-port PoE power up to 30W. As a PoE power supply device, it can automatically detect and recognize the power-receiving equipment that meets the standard and supply power through the network cable. It can supply power to PoE terminal devices such as wireless AP, IP cameras, and industrial sensors through the network cable, and meet the network environment that needs a high-density PoE power supply. It is suitable for intelligent transportation, rail transit, power industry, mining, petroleum, and sea transportation. Industrial scenes such as metallurgy and green energy, construction form a cost-effective, stable, and reliable communication network. Unmanaged mode, plug and play, no configuration, easy to use.

FEATURE

■ 10/100M access

- ♦ 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, which enables users to flexibly build networking to meet the needs of various scenarios.

■ Smart PoE power supply

- Comply with IEEE 802.3 af/at PoE standard, automatically identify PoE devices for power supply, and not damage non-PoE devices.

■ Stable and reliable

- ♦ CCC, CE, FCC, RoHS.
- ♦ The user-friendly panel can show the device status through the LED indicator of PWR, Link, and PoE.
- ♦ Low power consumption, aluminum alloy housing, and excellent heat dissipation to ensure the stable operation of the switch.

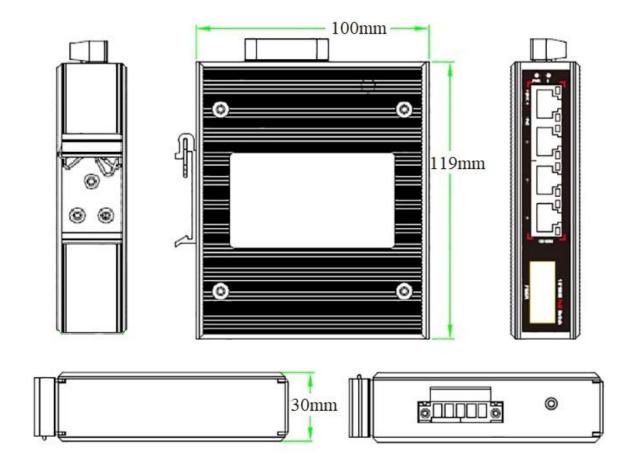
TECHNICAL SPECIFICATION

Model	ONV-IPS31004PF	
Interface Characteristics		
	1*155M uplink SC fiber port (Data)	
Fixed Port	4*10/100Base-T PoE ports (Data /Power)	
	2 sets V+, V- redundant DC power ports (5P industrial Phoenix terminal)	
Ethernet Port	Port 1-4 can support 10/100Base-T(X) auto-sensing, full/ half duplex MDI/	
	MDI-X self-adaption	
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP (≤100 meters)	

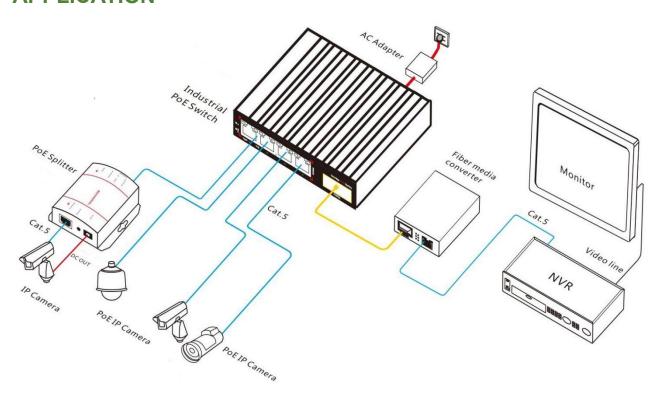
	100BASE-TX: Cat5e or later UTP (≤100 meters)	
Optical Fiber Port	Optical module is single-mode dual fiber 20km, SC port (optional	
	single-mode single fiber and multi-mode dual fiber optical module)	
Optical Cable/ Distance	Multi-mode: 850nm/ 0-500m, Single-mode: 1310nm/ 0-40km, 1550nm/	
Optical Cable/ Distance	0-120km	
Chip Parameter		
Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX,	
NEIWORK Protocol	IEEE 802.3u 100Base-FX, IEEE 802.3x	
Forwarding Mode	Store and Forward (Full Wire Speed)	
Switching Capacity	1.0Gbps (non-blocking)	
Forwarding Rate@64byte	0.74Mpps	
MAC	1K	
Buffer Memory	512K	
Jumbo Frames	9.2K	
LED Indicator	Power: PWR (Green), Network: Link (Yellow), PoE: PoE (Green), Fiber port:	
LED IIIUICAIOI	5 (Green)	
PoE& Power Supply		
PoE Port	Port 1-4	
Power Supply Pin	1/2(+) 3/6 (-)	
Max Power Per Port	30W, IEEE 802.3 af/at	
Power Consumption	Standby<3W, Full Load af<60W, at<120W	
Input Voltage/ Interface	DC48-57V, 5P industrial phoenix terminal, anti-reverse protection.	
Power Supply	No, optional 48V/60W and 48V/120W industrial power supply	
Physical Parameter		
Operation Temp/ Humidity	-40~+75°C, 5%~90% RH Non-condensing	
Storage Temp/ Humidity	-40~+85°C, 5%~95% RH Non-condensing	
Dimension	119*100*30mm	
Net /Gross Weight	0.4kg /0.5kg	
Installation	Desktop, 35mm DIN Rail	

Certification & Warranty		
	Protection level: IP40	
	Lightning protection: 6KV 8/20us	
	IEC61000-4-3 (RS):10V/m (80~1000MHz)	
	FCC Part 15/CISPR22 (EN55022): Class A	
	IEC61000-6-2 (Common Industrial Standard)	
	IEC61000-4-9 (Pulsed magnet field): 1000A/m	
	IEC61000-4-10 (Damped oscillation): 30A/m 1MHz	
Lightning Protection	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 Properties	IEC60068-2-6 (Anti Vibration), IEC60068-2-27 (Anti Shock), IEC60068-2-32	
	(Free Fall)	
0 ((5))	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class A,	
Certification	RoHS	
Warranty	5 years, lifelong maintenance.	

DIMENSION



APPLICATION



ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS31004PF	Unmanaged industrial PoE switch with 4*10/100M RJ45 ports and 1*155M uplink SC fiber port (1310nm/20km single-mode dual fiber optical module). Port 1-4 can support IEEE 802.3 af/at PoE standard. It can support dual DC power input and DIN rail mounting.	60W/120W
ONV-IPS31004PF-M	Unmanaged industrial PoE switch with 4*10/100M RJ45 ports and 1*155M uplink SC fiber port (850nm/0.5km or 1310nm/2km multi-mode dual fiber optical module). Port 1-4 can support IEEE 802.3 af/at PoE standard. It can support dual DC power input and DIN rail mounting.	60W/120W
ONV-IPS31004PF-A	Unmanaged industrial PoE switch with 4*10/100M RJ45 ports and 1*155M uplink SC fiber port (1310nm/20km single-mode single fiber optical module). Port 1-4 can support IEEE 802.3 af/at PoE standard. It can support dual DC power input and DIN rail mounting.	60W/120W
ONV-IPS31004PF-B	Unmanaged industrial PoE switch with 4*10/100M RJ45 ports and 1*155M uplink SC fiber port (1550nm/20km single-mode single fiber optical module). Port 1-4 can support IEEE 802.3 af/at PoE standard. It can support dual DC power input and DIN rail mounting.	60W/120W

PACKING LIST

	Content	Qty	Unit
Packing List	5-port 10/100M industrial PoE switch	1	Set
	User Guide	1	PC
	Warranty Card	1	PC

POWER SUPPLY

Product	Model	Description	Unit
60W DIN Rail Industrial Power Supply	GWS-DP60-48	DIN Rail 60W single set of output power supply Input Voltage: AC100V~240V 50-60Hz, 1.0A Output Voltage: DC48V, 1.25A Operation Temperature: -40°C to +70°C	PC
120W DIN Rail Industrial Power Supply	GWS-DP120-48	DIN Rail 120W single set of output power supply Input Voltage: AC100V~240V 50-60Hz, 2.3A Output Voltage: DC48V, 2.5A Operation Temperature: -40°C to +70°C	PC

RELATED PRODUCT

Model	Description
ONV-IPS33032PF	Unmanaged industrial PoE fiber switch with 2*10/100/1000M RJ45 ports
	and 1*1000M uplink SFP fiber port. Port 1-2 can support IEEE 802.3 af/at
	PoE standard. It can support dual DC power input and DIN rail mounting.
ONV-IPS33042PF	Unmanaged industrial PoE fiber switch with 2*10/100/1000M RJ45 ports
	and 2*1000M uplink SFP fiber ports. Port 1-2 can support IEEE 802.3 af/at
	PoE standard. It can support dual DC power input and DIN rail mounting.
ONV-IPS33064PF	Unmanaged industrial PoE fiber switch with 4*10/100/1000M RJ45 ports
	and 2*1000M uplink SFP fiber ports. Port 1-4 can support IEEE 802.3 af/at

	PoE standard. It can support dual DC power input and DIN rail mounting.
	Unmanaged industrial PoE fiber switch with 10*10/100/1000M RJ45 ports
ONV-IPS33128PF	and 2*1000M uplink SFP fiber port. Port 1-8 can support IEEE 802.3 af/at
	PoE standard. It can support dual DC power input and DIN rail mounting.

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