

Product Datasheet

5-port 10/100M Industrial PoE Fiber Switch

(ONV-IPS31004PF)



OVERVIEW

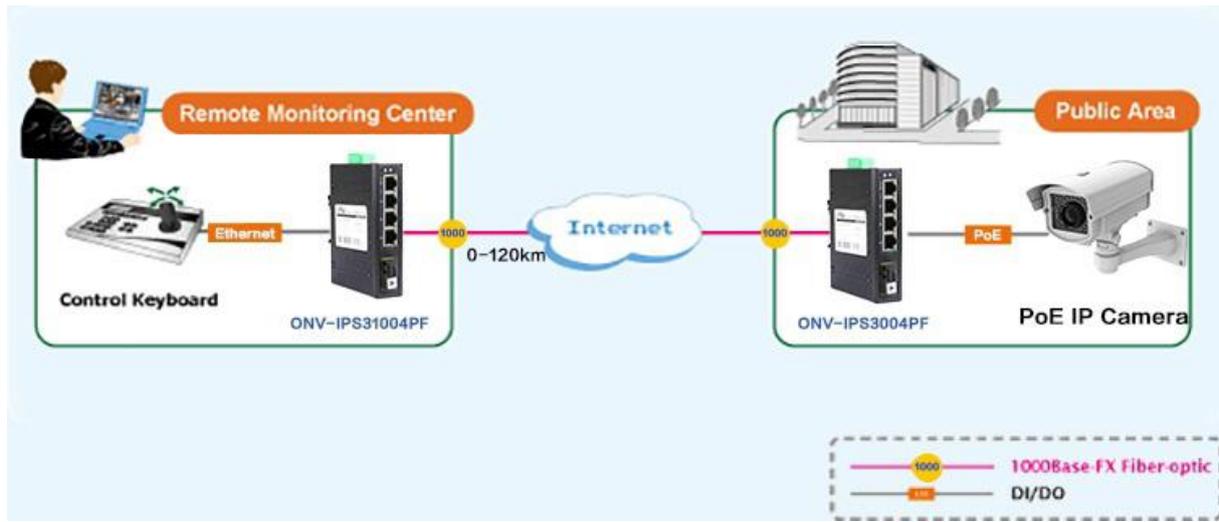
The ONV-IPS31004PF series is a 10/100M industrial PoE fiber switch independently developed by ONV. It has 4*10/100M PoE ports and 1*155M SC slot port, Port 1-4 can support IEEE 802.3af/at PoE standard, single port PoE power up to 30W, the maximum PoE output power is 60W (at-120W). As a PoE power supply 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 equipment such as wireless AP, web camera, VoIP phone, industrial sensor through network cable, and meet the network environment that needs high-density PoE power supply. It is suitable for intelligent transportation, rail transit, electric power, mining, metallurgy and green energy. Industrial scenes such as construction set up a cost-effective and stable communication network.

Unmanaged model, plug and play, no configuration, easy to use.

FEATURE

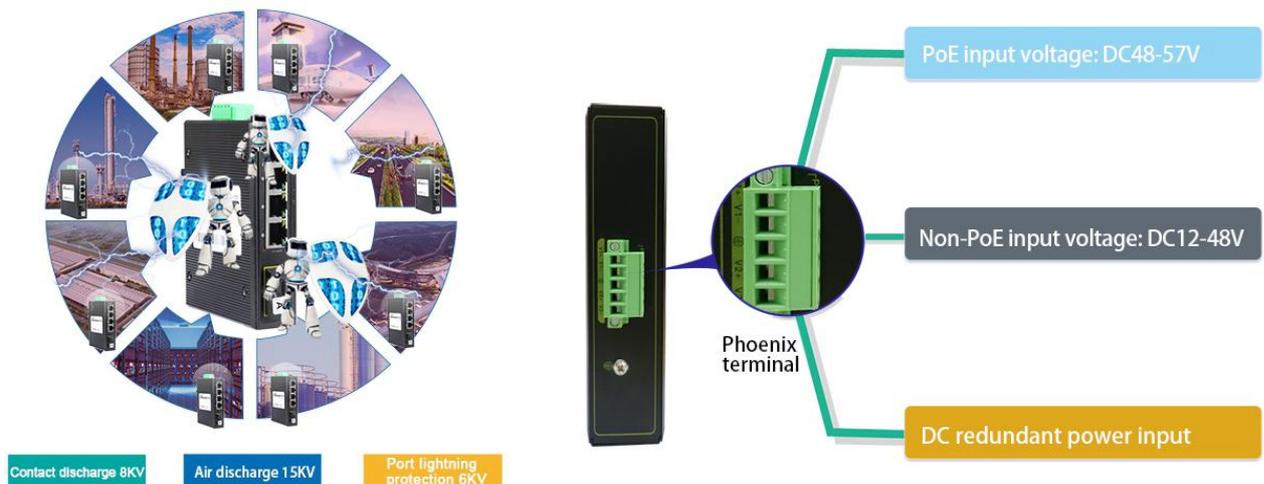
■ 10/100M TP/SC port, fast Ethernet

- ◇ All series supports "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



■ Port lightning protection, wide voltage input

- ◇ Contact discharge 8KV, air discharge 15KV; port lightning protection common-mode 4KV, differential mode 2KV;
- ◇ Industrial dual power input.
- ◇ DC INPUT: 48V-57V, non-PoE DC INPUT: 12-48V.

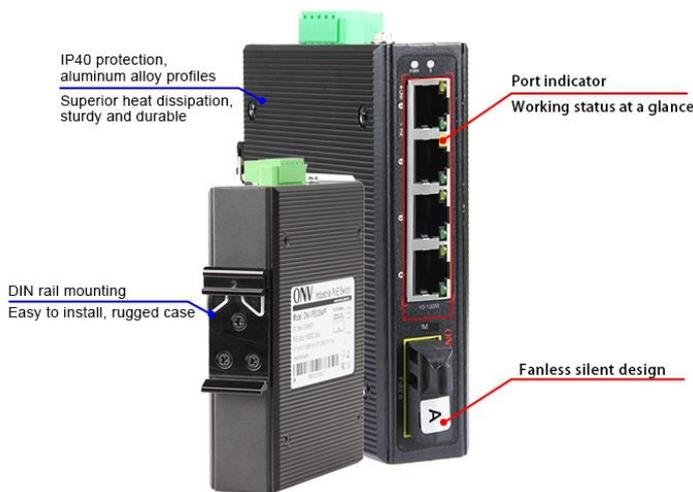


■ Smart PoE power supply function

- ◇ 4*10/100Base-TX RJ45 ports, meeting the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.
- ◇ IEEE 802.3af/at PoE standard, without damaging non-PoE devices.

■ Stable and reliable

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



TECHNICAL SPECIFICATION

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

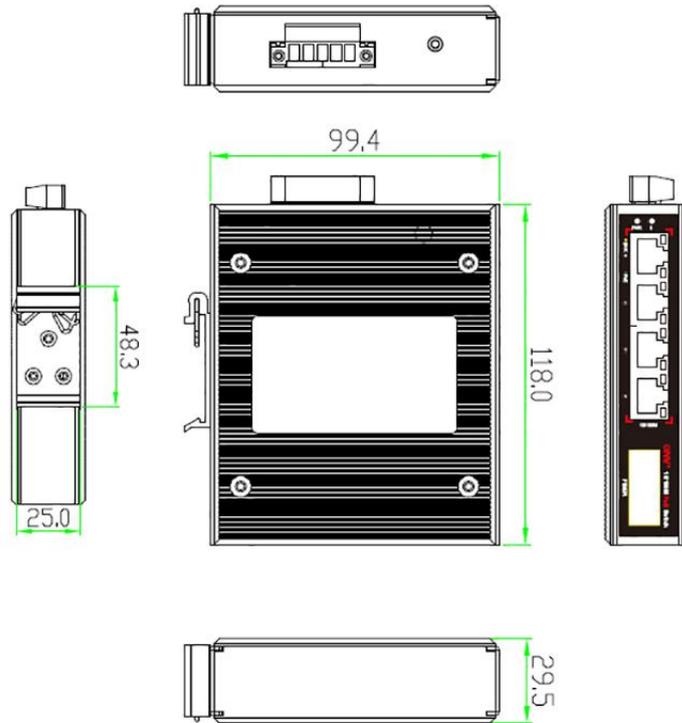
Transmission	100BASE-TX: Cat5e or later UTP(≤100 meter)	
Fiber Port	The default optical module is single-mode dual-fiber 20km, SC interface; Multi-mode dual fiber and single-mode single fiber see product selection table	
Optical Cable	Multi-mode: 850nm 0 ~ 550M, Single-mode: 1310nm 0 ~ 40KM, 1550nm 0 ~ 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 (Non-blocking)	
Forwarding Rate@64byte	0.744Mpps	
MAC	1K	
Buffer Memory	768K	
Jumbo Frames	9.2K	
LED Indicator	Power: PWR (green), Network :Link, (yellow); PoE : PoE (green) , fiber port :5 (green)	
PoE & Power		
PoE Port	Port 1 to 4 IEEE802.3af/at @ POE	
Power Supply Pin	Default 1/2 (+), 3/6 (-) , optional 4/5 (+), 7/8 (-)	
Max Power Per Port	30W; IEEE802.3af/at	
Total PWR / Input Voltage	60W/48VDC	120W/48VDC
Power	Standby<3W, Full Load<60W	Standby<4W, Full Load<120W

Consumption	
Working Voltage	48-57VDC; 5P industrial phoenix terminal, anti-reverse protection.
Power Supply	No, optional 48V/60W or 48V/120W industrial power supply
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	119*100*30mm
Net /Gross Weight	<0.5kg /<0.7kg
Installation	Desktop, 35mm 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 IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz) IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m ,1s to 3s 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 IEC61000-4-16(common-mode transmission):30V; 300V,1s FCC Part 15/CISPR22(EN55022):Class A IEC61000-6-2(Common Industrial Standard)
Mechanical Properties	IEC60068-2-6 (anti vibration), IEC60068-2-27 (anti shock), IEC60068-2-32 (free fall)
Certification	CCC; CE mark, commercial; CE/LVD EN60950; FCC Part 15 Class B; RoHS;

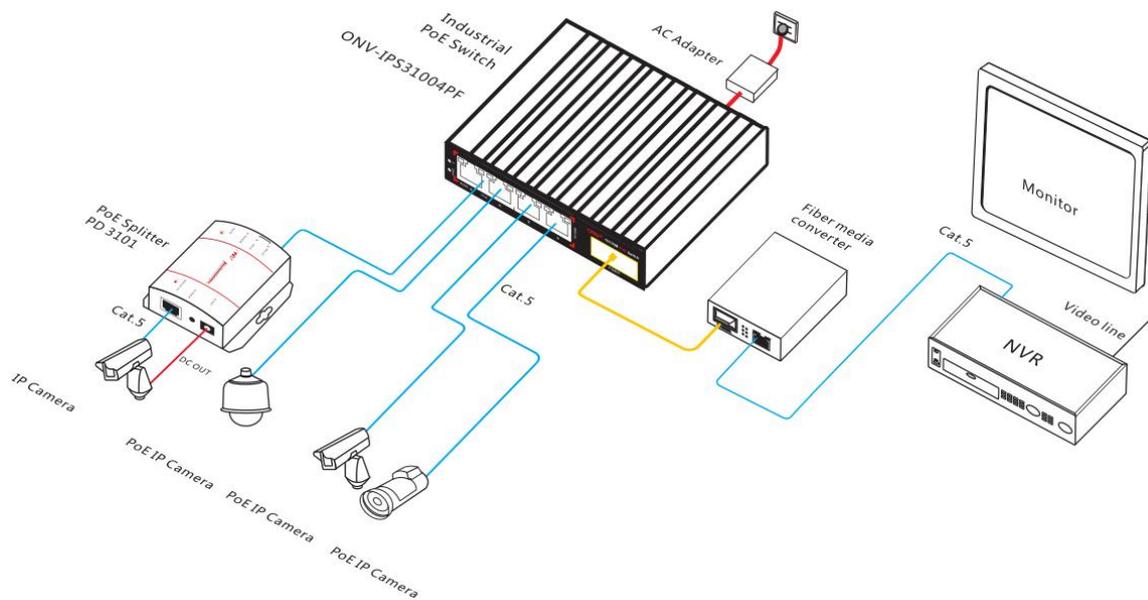
Warranty

5 years, lifelong maintenance.

DIMENSION



APPLICATION



ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS31004P F	Unmanaged industrial PoE fiber switch with 4*10/100M PoE ports and 1*155M SC port, Port 1-4 can support PoE	60W
ONV-IPS31004P F-at	IEEE802.3af/at. By default, the SC port 1310nm/20km single-mode dual-fiber module is configured. It can support dual DC redundant power input (Phoenix terminal connection) and rail mounting.	120W
ONV-IPS31004P F-M	Unmanaged industrial PoE fiber switch with 4*10/100M PoE ports and 1*155M SC port, Port 1-4 can support PoE	60W
ONV-IPS31004P F-M-at	IEEE802.3af/at. By default, the SC port 850nm/0.5km or 1310nm/2km multi-mode dual fiber module is configured. It can support dual DC redundant power input (Phoenix terminal connection) and support rail mounting.	120W
ONV-IPS31004P F-A	Unmanaged industrial PoE fiber switch with 4*10/100M PoE ports and 1*155M uplink SC port. Port 1-4 can support IEEE 802.3af/at. By default, the SC port	60W
ONV-IPS31004P F-A-at	1310nm/20km single-mode single-fiber module is configured. It can support dual DC redundant power input (Phoenix terminal connection) and support rail mounting.	120W
ONV-IPS31004P F-B	Unmanaged industrial PoE fiber switch with 4*10/100M PoE ports and 1*155M uplink SC port. Port 1-4 can support IEEE 802.3af/at. By default, the SC port	60W
ONV-IPS31004P F-B-at	1550nm/20km single-mode single-fiber module is configured. It can support dual DC redundant power input (Phoenix terminal connection) and support rail mounting.	120W

PACKING LIST

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

POWER SUPPLY SELECTION TABLE

Product	Model	Description	Unit
65W Desktop Power Adaptor	GWS-AP65-52	Desktop tape 65W single set of output power adapter; Input Voltage:AC 100V~240V 50-60Hz,1.1A Output Voltage:DC 52V 1.25A Operation Temperature:-20℃—+65℃	PC
110W Desktop Power Adaptor	GWS-AP110-52	Desktop tape 110W single set of output power adapter; Input Voltage:AC 100V~240V 50-60Hz,2.0A Output Voltage:DC 52V 2.0A Operation Temperature:-20℃—+65℃	PC
60W DIN Rail Industrial Power Supply	GWS-DP60-48	Din Rail type 60W single set of output power supply; Input Voltage:AC 100V~240V 50-60Hz,1A Output Voltage:DC 48V 1.25A	PC

		Operation Temperature:-40℃—+70℃	
120W DIN Rail Industrial Power Supply	GWS-DP120-48	Din Rail type 120W single set of output power supply; Input Voltage:AC 100V~240V 50-60Hz,1.5A Output Voltage:DC 48V 2.5A Operation Temperature:-40℃—+70℃	PC

CONTACT US



OPTICAL NETWORK VIDEO TECHNOLOGIES (SHENZHEN) CO., LTD.

Tel: 0086-755-33376606

Fax: 0086-755-33376608

Email: onv@onv.com.cn

Website: www.onvcom.com

Zip: 518000

Headquarter Address: Room 1003, Block D, Terra Building, Futian District, Shenzhen, China

Factory Address: The 4-6th Floor, No. 59, HuaNing Road, Xinwei Community, Dalang Street,

Longhua District, Shenzhen, China

