### **Product Datasheet**

# 8-port 10/100M industrial PoE Switch

(ONV-IPS31084PF)



### **OVERVIEW**

The ONV-IPS31084PF is a 10/100M industrial PoE fiber switch independently developed by ONV. It has 6\*10/100M adaptive RJ45 ports and 2\*155M uplink SC fiber ports. Port 1-4 can support IEEE 802.3 af/at PoE standard and the single-port PoE power reaches 30W. As a PoE power supply device, it can automatically detect and recognize power-receiving devices that meet the standard and supply power through the network cable. It can supply power to PoE terminal equipment such as wireless AP, IP camera, VoIP, and industrial sensors through the network cable. It also meets the network environment that needs a high-density PoE power supply. It is suitable for intelligent transportation, rail transit, power industry, mining, petroleum, and industrial scenes such as shipping, metallurgy, and green energy construction forming 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 IEEE 802.3x 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.
- 4\*10/100Base-TX RJ45 port support PoE power supply to meet the needs of PoE power supply in various scenarios in the industrial field.
- Priority system for PoE port, it will supply power to the high priority level port first when the power budget is insufficient and avoid overwork of the device.

#### ■ 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**

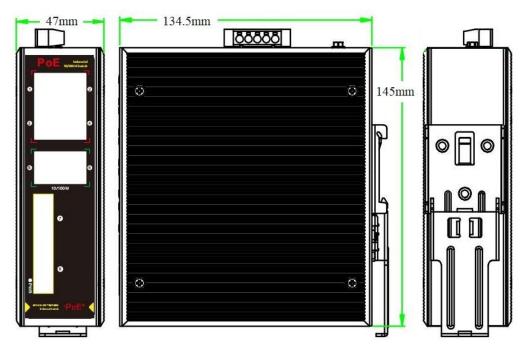
Model	ONV-IPS31084PF	
Interface Characteristics		
Fixed Port	2*10/100Base-TX RJ45 ports(Data)	
	2*155M uplink SC fiber ports (Data)	
	4*10/100Base-TX PoE ports (Data/ Power)	
	2 set V+, V- redundant DC power port (5P industrial Phoenix terminal)	
Ethernet Port	Port 1-6 can support 10/100Base-TX auto-sensing, full/ half duplex MDI/	
	MDI-X self-adaption	
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP (≤100 meters)	
	1000BASE-T: Cat5e or later UTP (≤100 meters)	

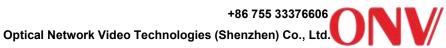


Optical Fiber Port	Single-mode dual fiber optical module 20km, SC port. (optional multi-mode	
Optical Fiber Fort	dual fiber and single-mode single fiber optical module)	
Ontical Cable/ Distance	Multi-mode: 850nm/ 0-550m, 1310nm/ 0-2km, Single-mode: 1310nm/	
Optical Cable/ Distance	0-40km, 1550nm/ 0-120km	
Chip Parameter		
Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX,	
Network Protocol	IEEE 802.3u 100Base-FX, IEEE 802.3x	
Forwarding Mode	Store and Forward (Full Wire Speed)	
Switching Capacity	1.6Gbps (non-blocking)	
Forwarding Rate@64byte	e 1.19Mpps	
MAC	1K	
Buffer Memory	768K	
Jumbo Frame	1632byte	
I CD Indicator	Power: PWR (Green), Network: Link (Yellow), POE: PoE (Green), Fiber port:	
LED Indicator	L/A (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<6W, Full load af<60W, at<120W	
Input Voltage/ Interface	DC48-57V, 5P industrial Phoenix terminal, support anti-reverse protection.	
Power Supply	No, optional 48V/60W or 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 (L*W*H)	145*134.5*47mm	
Net /Gross Weight	0.7kg/ 0.9kg	
Installation	Desktop, 35mm DIN Rail	
Certification& Warranty		

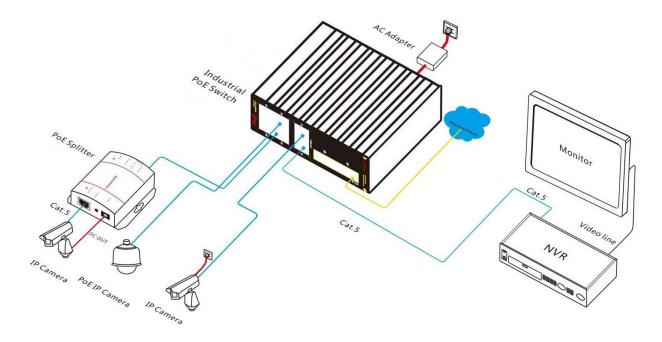
	IEC61000-4-3 (RS):10V/m (80~1000MHz)
	FCC Part 15/CISPR22 (EN55022): Class A
	IEC61000-6-2 (Common Industrial Standard)
	IEC61000-4-9 (Pulsed magnet field): 1000A/m
	IEC61000-4-10 (Damped oscillation): 30A/m 1MHz
	IEC61000-4-12/18 (Shockwave): CM 2.5kV, DM 1kV
Lightning Protection	Protection level: IP40, Lightning protection: 6KV 8/20us
	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 Proportios	IEC60068-2-6 (Anti Vibration), IEC60068-2-27 (Anti Shock), IEC60068-2-32
Mechanical Properties	(Free Fall)
Certification	CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class A, RoHS
Warranty	5 years, lifelong maintenance.

## **DIMENSION**





## **APPLICATION**



# **ORDERING INFORMATION**

Model	Description	Recommended Power Supply
ONV-IPS31084PF	Unmanaged industrial PoE fiber switch with 6*10/100M RJ45 ports and 2*155M uplink SC fiber ports (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 redundant power input and DIN rail mounting.	60W/120W
ONV-IPS31084PF-M	Unmanaged industrial PoE fiber switch with 6*10/100M RJ45 ports and 2*155M uplink SC fiber ports (850nm/2km 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 redundant power input and DIN rail mounting.	60W/120W
ONV-IPS31084PF-A	Unmanaged industrial PoE fiber switch with 6*10/100M RJ45 ports and 2*155M uplink SC fiber ports (1310nm/20km	60W/120W

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	single-mode single fiber optical module). Port 1-4 can support	
	IEEE 802.3 af/at PoE standard. It can support dual DC	
	redundant power input and DIN rail mounting.	
ONV-IPS31084PF-B	Unmanaged industrial PoE fiber switch with 6*10/100M RJ45	
	ports and 2*155M uplink SC fiber ports (1550nm/20km	
	single-mode single fiber optical module). Port 1-4 can support	60W/120W
	IEEE 802.3 af/at PoE standard. It can support dual DC	
	redundant power input and DIN rail mounting.	

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

# **PACKING LIST**

Packing List	Content	Qty	Unit
	8-port 10/100M industrial PoE switch	1	Set
	User Guide	1	PC
	Warranty Card and Certificate of Conformity	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℃ to +70℃	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℃ to +70℃	PC

### **RELATED PRODUCT**

Model	Description
ONV-IPS31032PF	Unmanaged industrial PoE fiber switch with 2*10/100M RJ45 ports and
	1*155M uplink SC fiber port. Port 1-2 can support IEEE 802.3 af/at PoE
	standard. It can support dual DC redundant power input and DIN rail mounting.
ONV-IPS31004PF	Unmanaged industrial PoE fiber switch with 4*10/100M RJ45 ports and
	1*155M uplink SC fiber port. Port 1-4 can support IEEE 802.3 af/at PoE
	standard. It can support dual DC redundant power input and DIN rail mounting.
ONV-IPS31128PFB	Unmanaged industrial PoE fiber switch with 8*10/100M RJ45 ports and
	2*10/100/1000M RJ45 ports and 2*1000M uplink SFP fiber ports. Port 1-8 can
	support IEEE 802.3 af/at PoE standard. It can support dual DC redundant
	power input and DIN rail mounting.

### **CONTACT US**



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