

Product Datasheet

8-port 10/100M industrial PoE Fiber Switch

(ONV-IPS31084PF)



OVERVIEW

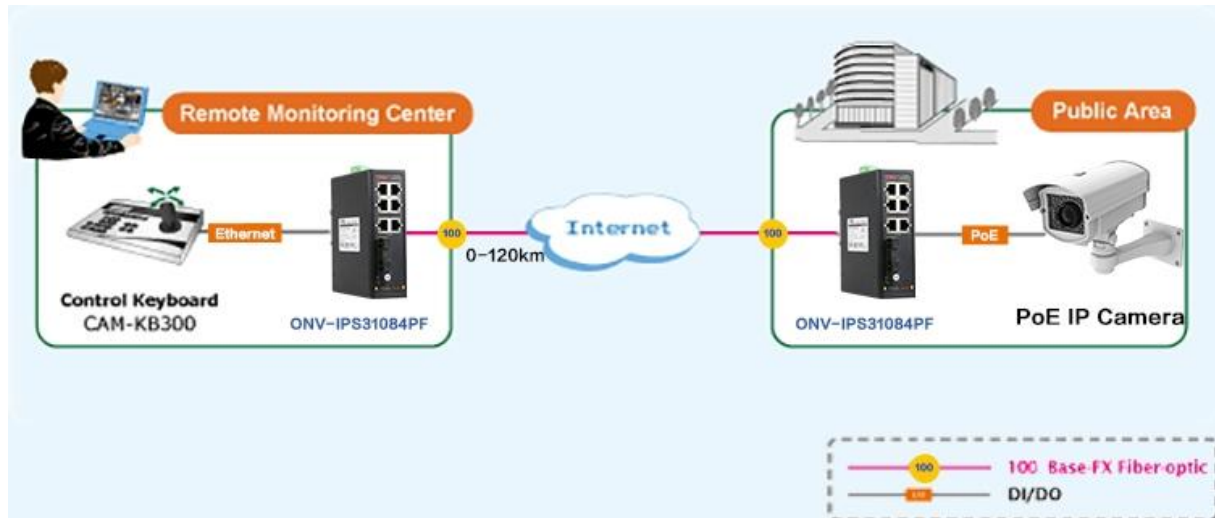
The ONV-IPS31084PF is a 10/100M industrial PoE fiber switch independently developed by ONV. It has 6*10/100M RJ45 ports and 2*155M SC slot port. Port 1-4 can support IEEE802.3af/at PoE standard. Single-port PoE power reaches 30W. As a PoE power supply device, it can automatically detect and recognize the power receiving equipment that meets the standard and supply power through the network cable. It can supply power to POE terminal 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

- ◇ 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.



■ Powerful 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.



Contact discharge 8KV

Air discharge 15KV

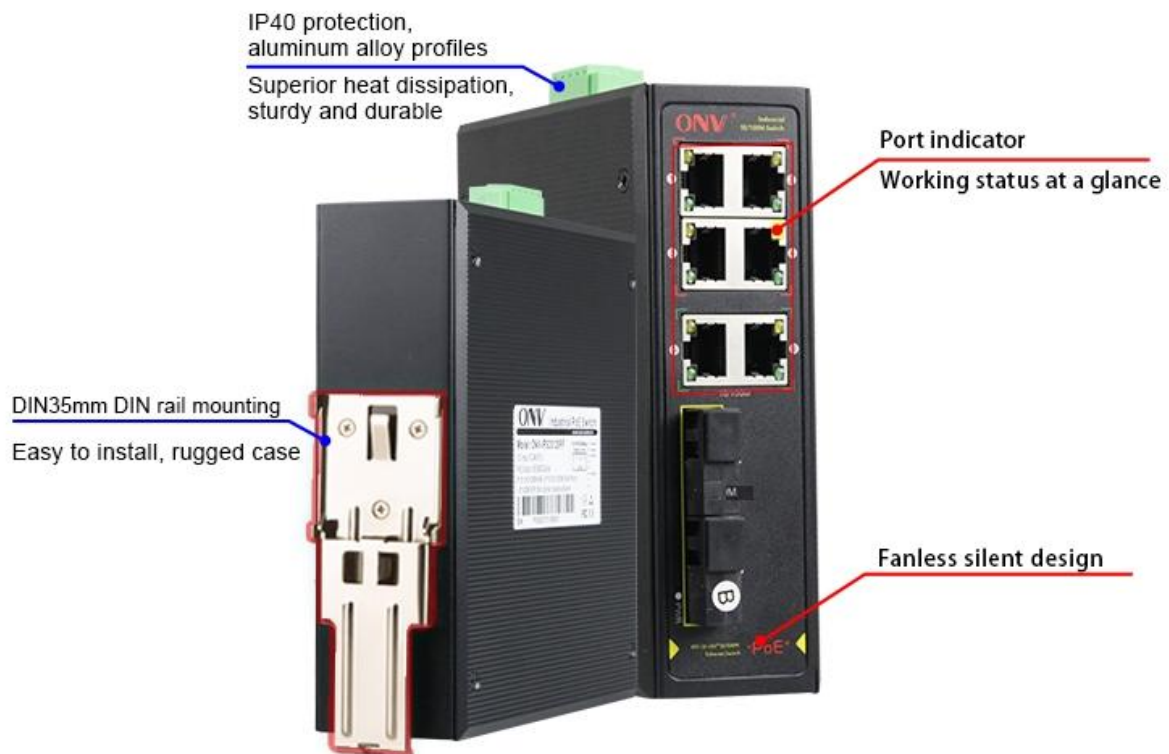
Port lightning protection 5KV

■ Intelligent PoE power supply

- ◇ 4*10/100Base-TX RJ45 ports, meeting the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.
- ◇ IEEE802.3af/at PoE standard, without damaging non-PoE devices.
- ◇ 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

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



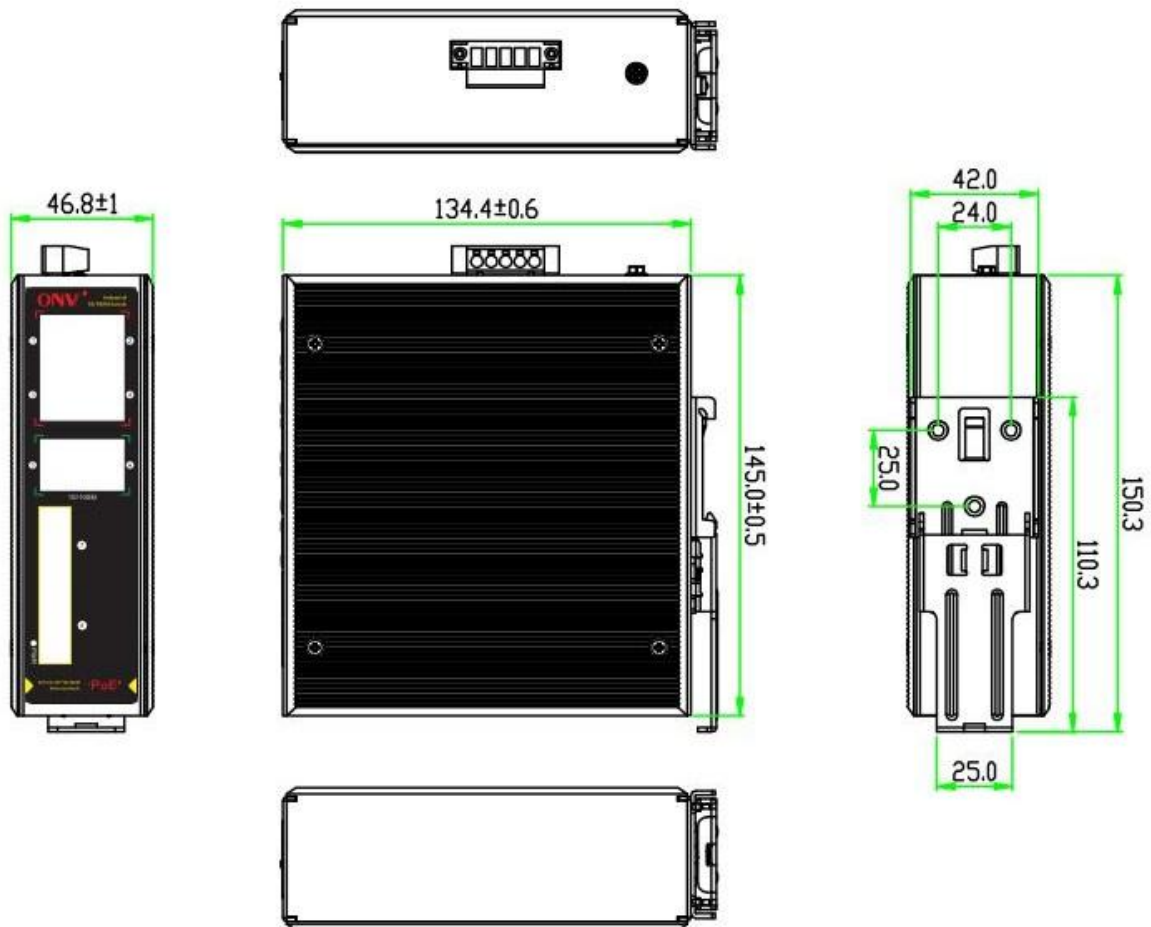
TECHNICAL SPECIFICATION

Model	ONV-IPS31084PF
Interface Characteristics	
Fixed Port	4*10/100Base-TX PoE ports (Data/Power) 2*10/100Base-TX uplink RJ45 ports(Data) 2*155M uplink SC slot ports(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 port
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	1.19Mpps
MAC	1K
Buffer Memory	768K
Jumbo Frame	1632byte
LED Indicator	Power: PWR(Green), Network: Link(Yellow), POE: PoE (Green), Fiber port : L/A (Green)
PoE & Power Supply	

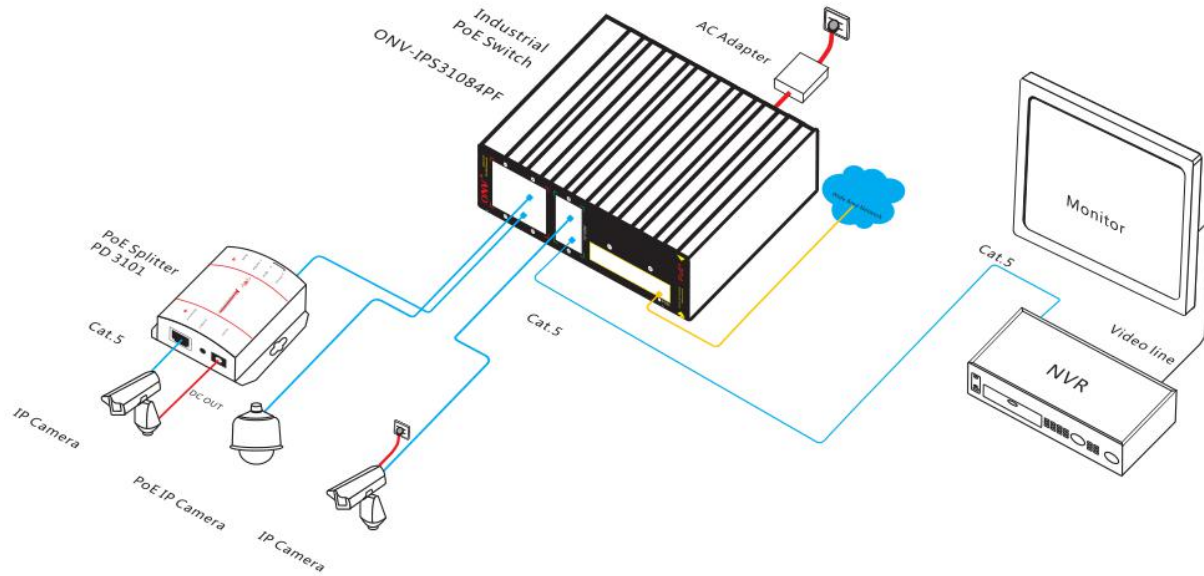
PoE Port	Port 1 to 4 IEEE802.3af/at @ POE
Power Supply Pin	Default :1/2 (+), 3/6 (-)
Max Power Per Port	30W; IEEE802.3af/at
Power Consumption	Standby:<5W, Full load:af<60W, at<120W
Power Supply	No, optional 48V/60W or 48V/120W industrial power supply
Working Voltage	48-57VDC, 5P industrial Phoenix terminal, support anti-reverse protection.
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*47.5mm
Net /Gross Weight	<0.8kg / <1.0kg
Installation	Desktop, 35mm DIN rail
Certification & Warranty	
Lightning Protection	<p>Lightning protection: 6KV 8/20us; Protection level: IP40</p> <p>IEC61000-4-2(ESD):±8kV contact discharge,±15kV air discharge</p> <p>IEC61000-4-3(RS):10V/m(80~1000MHz)</p> <p>IEC61000-4-4(EFT): power cable:±4kV; data cable:±2kV</p> <p>IEC61000-4-5(Surge):power cable:CM±4kV/DM±2kV; data cable:±4kV</p> <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>

	IEC61000-4-16(common-mode transmission):30V; 300V,1s FCC Part 15/CISPR22(EN55022):Class B 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-IPS31084PF	Unmanaged industrial PoE fiber switch with 6*10/100M RJ45 ports and 2*155M SC ports. Port 1-4 can support IEEE802.3af/at PoE standard. By default, the SC port 1310nm/20km single-mode dual fiber module. 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 SC ports. Port 1-4 can support IEEE802.3af/at PoE standard. By default, the SC port 850nm/0.5km or 1310nm/2km multi-mode dual fiber	60W/120W

	module. It can support dual DC redundant power input and DIN rail mounting.	
ONV-IPS31084PF-A	Unmanaged industrial PoE fiber switch with 6*10/100M RJ45 ports and 2*155M SC ports. Port 1-4 can support IEEE802.3af/at PoE standard. By default, the SC port 1310nm/20km single-mode single fiber module. It can support dual DC redundant power input and DIN rail mounting.	60W/120W
ONV-IPS31084PF-B	Unmanaged industrial PoE fiber switch with 6*10/100M RJ45 ports and 2*155M SC ports. Port 1-4 can support IEEE802.3af/at PoE standard.. By default, the SC port 1550nm/20km single-mode single fiber module .It can support dual DC redundant power input and DIN rail mounting.	60W/120W
Note: Industrial PoE switch does no include the SFP optical module and power supply.		

PACKING LIST

	CONTENT	QTY	UNIT
PACKING LIST	8-port 10/100M industrial PoE fiber switch	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

POWER SUPPLY

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 Operation Temperature:-40℃—+70℃	PC
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

RELATED PRODUCT

Model	Description
ONV-IPS31021PF	Unmanaged industrial PoE fiber switch with 1*10/100M PoE port and 1*155M SC port. Port 1 can support IEEE802.3af/at PoE standard. It can support dual DC redundant power input and DIN rail mounting.
ONV-IPS31032PF	Unmanaged industrial PoE fiber switch with 2*10/100M PoE ports and 1*155M SC port. Port 1-2 can support IEEE802.3af/at PoE standard. It can support dual DC redundant power input and DIN rail mounting.
ONV-IPS31064PF	Unmanaged industrial PoE fiber switch with 4*10/100M PoE ports and 2*155M SC ports. Port 1-4 can support IEEE802.3af/at PoE standard. It can support dual DC redundant power input and DIN rail mounting.
ONV-IPS31108PFB	Unmanaged industrial PoE fiber switch with 8*10/100M PoE ports and 2*10/100/1000M RJ45 ports and 2*1000M SFP slot ports (Combo port). Port 1-8 can support IEEE802.3af/at PoE standard. It can support dual DC redundant power input and DIN rail mounting.

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