Product Datasheet

3-port 10/100M Industrial PoE Switch

(ONV-IPS31032PF)



OVERVIEW

The ONV-IPS31032PF is a 10/100M industrial PoE fiber switch independently developed by ONV. It has 2*10/100M RJ45 ports and 1*155M uplink SC fiber port. Port 1-2 can support IEEE 802.3 af/at PoE standard and 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 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.
- 2*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.

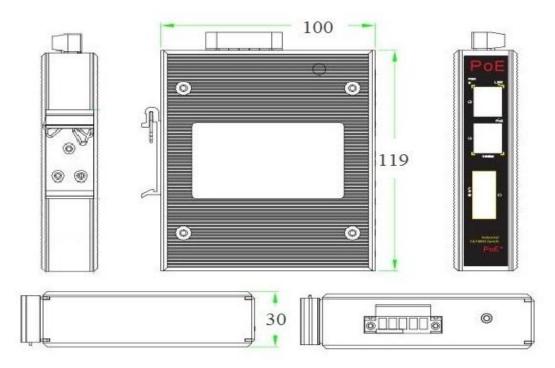
TECHNICAL SPECIFICATION

Model	ONV-IPS31032PF		
Interface Characteristics			
Fixed Port	1*155M uplink SC fiber port (Data)		
	2*10/100Base-TX PoE ports (Data/ Power)		
	2 set V+, V- redundant DC power port (5P industrial Phoenix terminal)		
Ethernet Port	Port 1-2 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)		
	100BASE-T: Cat5e or later UTP (≤100 meters)		

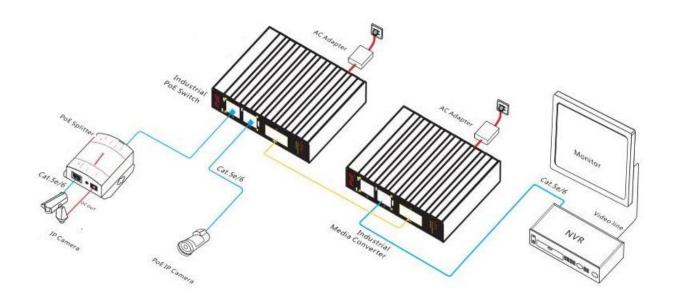
Ontical Eibar Part	Optical module is single-mode dual fiber 20km, SC port. (Optional	
Optical Fiber Port	single-mode single fiber and multi-mode dual fiber optical module)	
Ontical Cable/ Distance	Multi-mode: 850nm/ 0-500m, Single-mode: 1310nm/ 0-40km, 1550nm/	
Optical Cable/ Distance	0-120km	
Chip Parameter		
	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	1.0Gbps (non-blocking)	
Forwarding Rate @64byte 0.43Mpps		
MAC	1K	
Buffer Memory	512K	
Jumbo Frame	1536bytes	
LED Indicator	Power: PWR (Green), Network: Link (Yellow), PoE: PoE (Green)	
PoE& Power Supply		
PoE Port	Port 1-2	
Power Supply Pin	1/2 (+) 3/6 (-)	
Max Power Per Port	30W, IEEE 802.3 af/at	
Power Consumption	Standby<3W, Full load af<36W, at<60W	
Input Voltage/ Interface	DC48-57V, 5P industrial Phoenix terminal, support anti-reverse protection.	
Power Supply	No, optional 48V/36W or 48V/60W 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)	119*100*30mm	
Net /Gross Weight	0.4kg/ 0.5kg	
Installation	Desktop, 35mm DIN Rail	
Certification & Warranty		
Lightning Protection	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
	IEC61000-4-12/18 (Shockwave): CM 2.5kV, DM 1kV
	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)
	IEC61000-4-5 (Surge): Power cable: CM±4kV/ DM±2kV, data cable: ±4kV
	IEC61000-4-8 (Power frequency magnetic field): 100A/m, 1000A/m, 1s-3s
Machanical Proportion	IEC60068-2-6 (Anti Vibration), IEC60068-2-27 (Anti Shock),
Mechanical Properties	IEC60068-2-32 (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-IPS31032PF	Unmanaged industrial PoE switch with 2*10/100M RJ45 ports and 1*155M uplink SC fiber port (1310nm/20km single-mode dual fiber optical module). Port 1-2 can support IEEE 802.3 af/at PoE standard. It can support dual DC redundant power input and DIN rail mounting.	36W/60W
ONV-IPS31032PF-M	Unmanaged industrial PoE switch with 2*10/100M RJ45 ports and 1*155M uplink SC fiber port (850nm/0.5km or 1310nm/2km multi-mode dual fiber optical module). Port 1-2 can support IEEE 802.3 af/at PoE standard. It can support dual DC redundant power input and DIN rail mounting.	36W/60W
ONV-IPS31032PF-A	Unmanaged industrial PoE switch with 2*10/100M RJ45	36W/60W

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	ports and 1*155M uplink SC fiber port (1310nm/20km	
	single-mode single fiber optical module). 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-IPS31032PF-B	Unmanaged industrial PoE switch with 2*10/100M RJ45	
	ports and 1*155M uplink SC fiber port (1550nm/20km	
	single-mode single fiber optical module). Port 1-2 can	36W/60W
	support 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
	3-port 10/100M industrial PoE switch	1	Set
	User Guide	1	PC
	Warranty Card	1	PC

POWER SUPPLY

Product	Model	Description	Unit
36W DIN Rail Industrial Power Supply	GWS-DP36-48	DIN Rail 36W single set of output power supply Input Voltage: AC100V~240V 50-60Hz, 0.56A Output Voltage: DC48V, 0.75A Operation Temperature:-40°C to +70°C	PC
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

RELATED PRODUCT

Model	Description		
	Unmanaged industrial PoE switch with 1*10/100M RJ45 port and 1*155M uplink		
ONV-IPS31021PFS	SC fiber port (1310nm/20km single-mode dual fiber optical module). Port 1 can		
ONV-1P331021PF3	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 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 redundant power		
	input and DIN rail mounting.		
	Unmanaged industrial PoE switch with 6*10/100M RJ45 ports and 2*155M uplink		
ONV-IPS31084PF	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.		
	Unmanaged industrial PoE fiber switch with 8*10/100M RJ45 ports and		
ONV-IPS31128PFB	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 power input and		
	DIN rail mounting		

CONTACT US

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