Product Datasheet

3-port 10/100M Industrial PoE Switch

(ONV-IPS31032PFS)



OVERVIEW

The ONV-IPS31032PFS is a 10/100M industrial PoE fiber switch independently developed by ONV. It has 2*10/100M adaptive RJ45 ports and 1*155M SC fiber port. Port 1-2 can support IEEE 802.3 af/at PoE standard and single-port PoE power is 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.
- \Diamond 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 ports can support PoE power supply to meet the needs of PoE power supply in various scenarios in the industrial field.
- ♦ The priority system for the PoE port 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

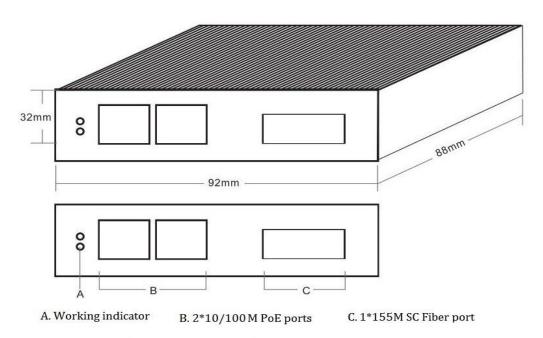
Model	ONV-IPS31032PFS	
Interface Characteristics		
	1*155M uplink SC fiber port (Data)	
Fixed Port	2*10/100Base-TX PoE ports (Data/Power)	
	2 set V+, V- redundant DC power port (5P industrial Phoenix terminal)	
Ethernet Port	Port 1-2 can support 10/100Base-TX auto-sensing, full/ half duplex MDI/	
	MDI-X self-adaption	
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP (≤100 meters)	
	100BASE-TX: Cat5 or later UTP (≤100 meters)	
Optical Fiber Port	Optical module is single-mode dual fiber 20km, SC port. (optional	

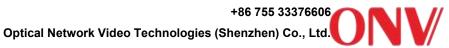


	single-mode single fiber and multi-mode dual fiber optical module)	
Optical Cable/ Distance	Multi-mode: 850nm/ 0-500m, Single-mode: 1310nm/ 0-40km, 1550nm/	
Optical Cable/ Distance	0-120km	
Chip Parameter		
Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX,	
Network Protocol	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	
I ED Indicator	Power: PWR (Green), Network: Link (Yellow), PoE: PoE (Green), Fiber	
LED Indicator	port: FX (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<36, 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)	92*88*32mm	
Net /Gross Weight	0.3kg/ 0.4kg	
Installation	Desktop, 35mm DIN Rail	
Certification & Warranty		
Lightning Protection	Protection level: IP40	

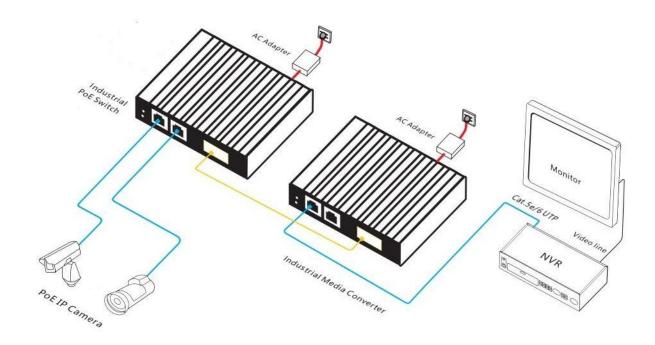
	Lightning protection: 6KV 8/20us
	IEC61000-4-3 (RS):10V/m (80~1000MHz)
	FCC Part 15/CISPR22 (EN55022): Class A
	IEC61000-6-2 (Common Industrial Standard)
	IEC61000-4-9 (Pulsed magnet field): 1000A/m
	IEC61000-4-10 (Damped oscillation): 30A/m 1MHz
	IEC61000-4-12/18 (Shockwave): CM2.5kV, DM1kV
	IEC61000-4-4(EFT): 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
	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	Model Description	
ONV-IPS31032PFS	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-IPS31032PFS-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-IPS31032PFS-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-IPS31032PFS-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 newer supply is not included and needs to be purchased		

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℃ to +70℃	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℃ to +70℃	PC

RELATED PRODUCT

Model	Description	
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.	
ONV-IPS31084PF	Unmanaged industrial PoE 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	
	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 power input	
	and DIN rail mounting.	

CONTACT US

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