

Product Datasheet

3-port 10/100M Industrial PoE Fiber Switch

(ONV-IPS31032PFS)



OVERVIEW

The ONV-IPS31032PFS is a 10/100M industrial PoE fiber switch independently developed by ONV. It has 2*10/100M RJ45 ports and 1*155M SC fiber port. Port 1-2 can support IEEE802.3af/at PoE standard. Single-port PoE power is 30W. As a PoE power supply device, it can automatically detect and recognize power-compliant devices that meet the standard and supply power through the network cable. It can supply power to POE terminal equipment such as wireless AP, webcam, VoIP, 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, maritime, metallurgy, and Industrial scenarios such as green energy construction build cost-effective, stable, and reliable communication networks.

FEATURE

■ 10/100M RJ45 and SC port, fast Ethernet

- ◇ 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.

■ Intelligent PoE power supply

- ◇ IEEE802.3af/at PoE standard, without damaging non-PoE devices.
- ◇ 2*10/100Base-TX RJ45 ports, meeting the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.
- ◇ 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.
- ◇ Low power consumption, No fan, aluminum shell.
- ◇ The user-friendly panel can show the device status through the LED indicator of PWR, Link, PoE.

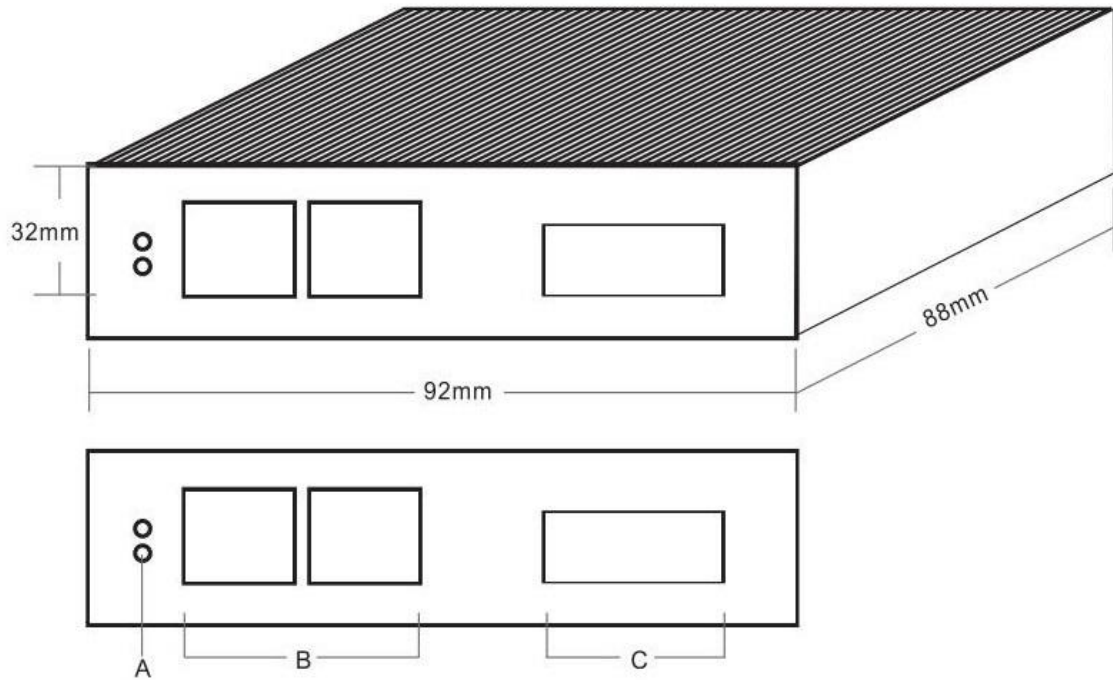
TECHNICAL SPECIFICATION

Model	ONV-IPS31032PFS
Interface Characteristics	
Fixed Port	1*155M SC fiber port(Data) 2*10/100Base-TX PoE ports (Data/Power) 2 set of V+, V- redundant DC power interface (3P Phoenix terminal)

Ethernet Port	Port 1 to 2 support 10/100Base-TX auto-sensing, full/half duplex MDI/MDI-X self-adaption
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-TX: Cat5 or later UTP(≤100 meter)
Fiber Port	Default single-mode dual fiber 20km, SC interface. (optional single-mode single fiber/multi-mode dual fiber optical module)
Optical Cable/ Distance	Multi-mode: 850nm/ 0-500m, 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	0.47Mpps
MAC	1K
Buffer Memory	768K
Jumbo Frame	1536bytes
LED Indicator	Power: PWR (Green), Network: Link (Yellow), PoE: PoE (Green) Fiber port: L/A (Green)
PoE & Power Supply	
PoE Port	Port 1 to 2, IEEE802.3af/at
Power Supply Pin	Default 1/2 (+) 3/6 (-)
Max Power Per Port	30W, IEEE802.3af/at
Power Consumption	Standby<1W, Full load af<30, at<60W
Operating Voltage	DC48-57V, 3P 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	<0.4kg / <0.6kg
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> <p>IEC61000-4-16(common-mode transmission):30V; 300V,1s</p> <p>FCC Part 15/CISPR22(EN55022):Class B</p> <p>IEC61000-6-2(Common Industrial Standard)</p>
Mechanical Properties	<p>IEC60068-2-6 (anti vibration)</p> <p>IEC60068-2-27 (anti shock)</p> <p>IEC60068-2-32 (free fall)</p>
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B RoHS
Warranty	5 years, lifelong maintenance.

DIMENSION

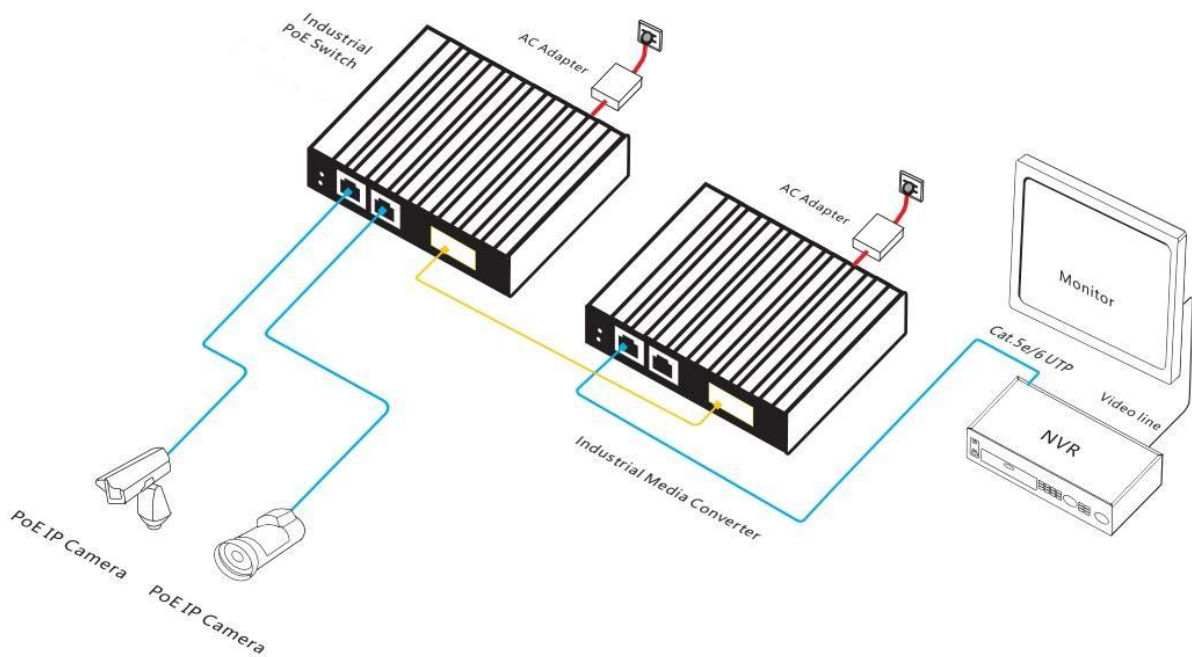


A. Working indicator

B. 2*10/100 M PoE ports

C. 1*155M SC Fiber port

APPLICATION



ORDERING INFORMATION

Model	Description	Power Supply
ONV-IPS31032PFS	Unmanaged industrial PoE fiber switch with 2*10/100M PoE ports and 1*155M uplink SC fiber port. Port 1-2 support IEEE802.3af/at PoE standard. Default SC port 1310nm/20km single-mode dual fiber optical module. It can support dual DC redundant power input (Phoenix terminal connection) and DIN rail mounting.	36W/60W
ONV-IPS31032PFS-M	Unmanaged industrial PoE fiber switch with 2*10/100M PoE ports and 1*155M uplink SC fiber port. Port 1-2 support IEEE802.3af/at PoE standard. Default SC port 850nm/2km,1310nm/20km single-mode dual fiber optical module. It can support dual DC redundant power input (Phoenix terminal connection) and DIN rail mounting.	36W/60W
ONV-IPS31032PFS-A	Unmanaged industrial PoE fiber switch with 2*10/100M PoE ports and 1*155M uplink SC fiber port. Port 1-2 support IEEE802.3af/at PoE standard. Default SC port 1550nm/1310nm/20km single-mode single fiber optical module. It can support dual DC redundant power input (Phoenix terminal connection) and DIN rail mounting.	36W/60W
ONV-IPS31032PFS-B	Unmanaged industrial PoE fiber switch with 2*10/100M PoE ports and 1*155M uplink SC fiber port.. Port 1-2 support IEEE802.3af/at PoE standard. Default SC port 1550nm/1310nm/20km single-mode single fiber optical module. It can support dual DC redundant power input (Phoenix terminal connection) and and DIN rail mounting.	36W/60W

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

PACKING LIST

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

POWER SUPPLY

Product	Model	Description	Unit
36W Desktop Power Adaptor	GWS-AP36-52	Desktop 36W single set of output power adapter Input Voltage:AC 100V~240V 50-60Hz, 0.56A Output Voltage:DC 52V 0.7A Operation Temperature:-20℃—+65℃	PC
65W Desktop Power Adaptor	GWS-AP65-52	Desktop 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
36W DIN Rail Industrial Power Supply	GWS-DP36-48	Din Rail 36W single set of output power supply Input Voltage:AC 100V~240V 50-60Hz, 0.56A Output Voltage:DC 48V 0.75A Operation Temperature:-40℃—+70℃	PC
60W DIN Rail Industrial Power Supply	GWS-DP60-48	Din Rail 60W single set of output power supply Input Voltage:AC 100V~240V 50-60Hz, 1A	PC

Output Voltage:DC 48V 1.25A

Operation Temperature:-40℃—+70℃

RELATED PRODUCT

Model	Description
ONV-IPS31004PF	Unmanaged industrial PoE fiber switch with 4*10/100M RJ45 ports and 1*155M SC port. Port 1-4 can support IEEE802.3af/at PoE standard. Default SC port 1310nm/20km single-mode dual fiber optical module. It can support dual DC redundant power input (Phoenix terminal connection) and DIN rail mounting.
ONV-IPS31064PF	Unmanaged industrial PoE fiber switch with 4*10/100M RJ45 ports and 2*155M SC ports. Port 1-4 can support IEEE802.3af/at PoE standard. Default SC port 1310nm/20km single-mode dual fiber optical module. It can support dual DC redundant power input (Phoenix terminal connection) 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 ports. Port 1-8 can support IEEE802.3af/at PoE standard. It can support dual DC redundant power input (Phoenix terminal connection) and DIN rail mounting.

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