Product Datasheet

3-port Gigabit Industrial PoE Switch

(ONV-IPS33032PFS)

OVERVIEW

The ONV-IPS33032PFS is a Gigabit industrial PoE fiber switch independently developed by ONV. It has 2*10/100/1000Base-T adaptive RJ45 ports and 1*1000Base-X SC fiber port. Port 1-2 can support IEEE 802.3 af/at PoE standard and the single-port PoE power is 30W. As a PoE power supply device, it can automatically detect and identify the power-receiving devices that meet the standards and power them through the network cable. It can power wireless AP, IP cameras, industrial sensors, and other PoE terminal devices through the network cable to meet the network environment that requires a high-density PoE power supply. It is suitable for industrial scenarios such as intelligent transportation, rail transportation, power industry, mining, petroleum, shipping, metallurgy, and green energy to build an economical, efficient, stable, and reliable communication network. Unmanaged mode, plug and play, no configuration, simple and convenient to use.

FEATURE

■ **Gigabit access**

◇ Support non-blocking wire-speed forwarding.

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◇ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.

◇ Support Gigabit RJ45 port and 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*10/100/1000Base-T 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 stable operation of the switch.
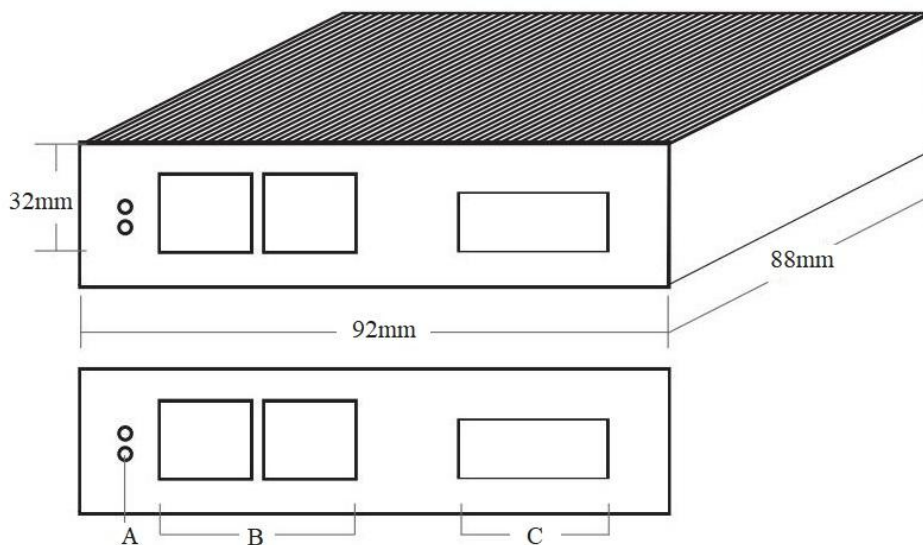
TECHNICAL SPECIFICATION

Model	ONV-IPS33032PFS
Interface Characteristics	
Fixed Port	1*1000Base-X SC fiber port (Data) 2*10/100/1000Base-T PoE ports (Data/Power) 2 set of V+, V- redundant DC power ports (5P Phoenix terminal)
Ethernet Port	Port 1-2 can support 10/100/1000Base-T(X) 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)

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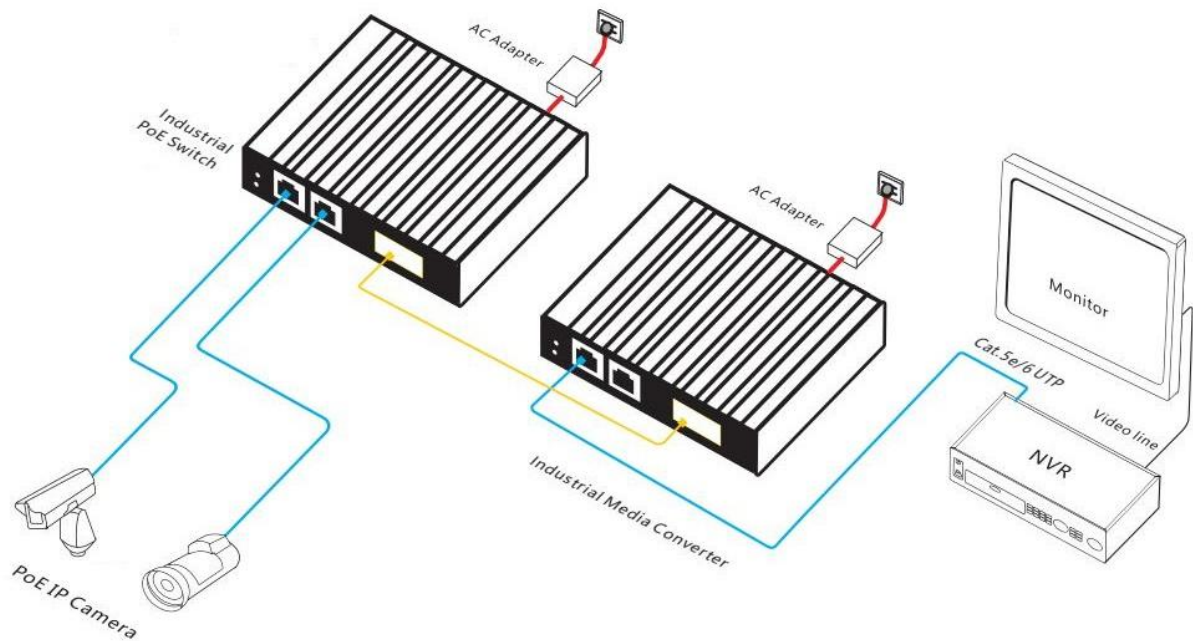|	1000BASE-T: Cat5e or later UTP (≤100 meters)
Optical Fiber Port	Default optical module is single-mode dual fiber 20km, SC port (optional single-mode single fiber and multi-mode dual fiber optical module)
Optical Cable/ Distance	Multi-mode: 850nm/ 0-550m, Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km
Chip Parameter	
Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X, IEEE 802.3x
Forwarding Mode	Store and Forward (Full Wire Speed)
Switching Capacity	12Gbps (non-blocking)
Forwarding Rate @64byte	4.46Mpps
MAC	2K
Buffer Memory	2M
Jumbo Frame	9.2K
LED Indicator	Power: PWR (Green), Network: Link, Link/Act (Yellow), PoE: PoE (Green)
PoE & Power Supply	
PoE Port	Port 1-2
Power Supply Pin	1/2 (+) 3/6 (-)
Power Consumption	Standby<5W, Full load<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	IEC61000-4-3 (RS):10V/m (80~1000MHz)

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	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
	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 Properties	IEC60068-2-6 (Anti Vibration), IEC60068-2-27 (Anti Shock), IEC60068-2-32 (Free Fall)
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class A, RoHS
Warranty	5 years, lifelong maintenance.

DIMENSION

A. Work indicator   B. 2*10/100/1000M PoE ports   C. 1*1000M SC fiber port

APPLICATION

ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS33032PFS	Unmanaged industrial PoE switch with 2*10/100/1000M RJ45 ports and 1*1000M 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-IPS33032PFS-M	Unmanaged industrial PoE switch with 2*10/100/1000M RJ45 ports and 1*1000M uplink SC fiber port (850nm/0.5km 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-IPS33032PFS-	Unmanaged industrial PoE switch with 2*10/100/1000M	36W/60W

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| A | RJ45 ports and 1*1000M 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-IPS33032PFS-B | Unmanaged industrial PoE switch with 2*10/100/1000M RJ45 ports and 1*1000M uplink SC fiber port (1550nm/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. | 36W/60W |

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

PACKING LIST

	Content	Qty	Unit
Packing List	3-port gigabit industrial PoE fiber switch	1	Set
	User Guide	1	PC
	Warranty Card and Certificate of Conformity	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-IPS33032PF	Unmanaged industrial PoE fiber switch with 2*10/100/1000M RJ45 ports and 1*1000M SFP 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-IPS33042PF	Unmanaged industrial PoE fiber switch with 2*10/100/1000M RJ45 ports and 2*1000M SFP fiber ports. 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-IPS33064PF	Unmanaged industrial PoE fiber switch with 4*10/100/1000M RJ45 ports and 2*1000M SFP fiber ports. 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-IPS33064PFG	Unmanaged industrial PoE fiber switch with 5*10/100/1000M RJ45 ports and 1*1000M SFP 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-IPS33108PF	Unmanaged industrial PoE fiber switch with 8*10/100/1000M RJ45 ports and 2*1000M 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.
ONV-IPS33128PF	Unmanaged industrial PoE fiber switch with 10*10/100/1000M RJ45 ports and 2*1000M 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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