

Product Datasheet

6-port 10/100M bt Industrial PoE Fiber Switch

(ONV-IPS31064PF-bt)



OVERVIEW

The ONV-IPS31064PF-bt is a 10/100M unmanaged bt industrial PoE fiber switch independently developed by ONV. It has 4*10/100Base-TX RJ45 ports and 2*155M uplink SFP slot ports. Port 1-4 can support IEEE802.3af/at/bt PoE standard. Single-port PoE power output is 95W. 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 provides stable and safe terminals for PTZ network domes, high-power wireless AP, high-power network multimedia speakers, and high-power POE lighting, etc. through a network cable to 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

■ 10/100Mbps RJ45/SFP port, fast Ethernet

- ◇ The combination of 10/100M RJ45 port and 155M SFP slot ports is convenient for users to flexibly network to meet the networking requirements of various scenes
- ◇ Support non-blocking wire-speed forwarding.
- ◇ Support full-duplex based on IEEE802.3x and half-duplex based on backpressure.

■ Smart PoE power supply function

- ◇ 4*10/100Base-TX RJ45 ports can support PoE power supply, meeting the demand for super high power PoE power supply in various scenarios.
- ◇ The maximum output power of single-port POE is 90W, and the backwards compatibility IEEE802.3af/at PoE power supply standard automatically identifies PoE devices for power supply 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

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

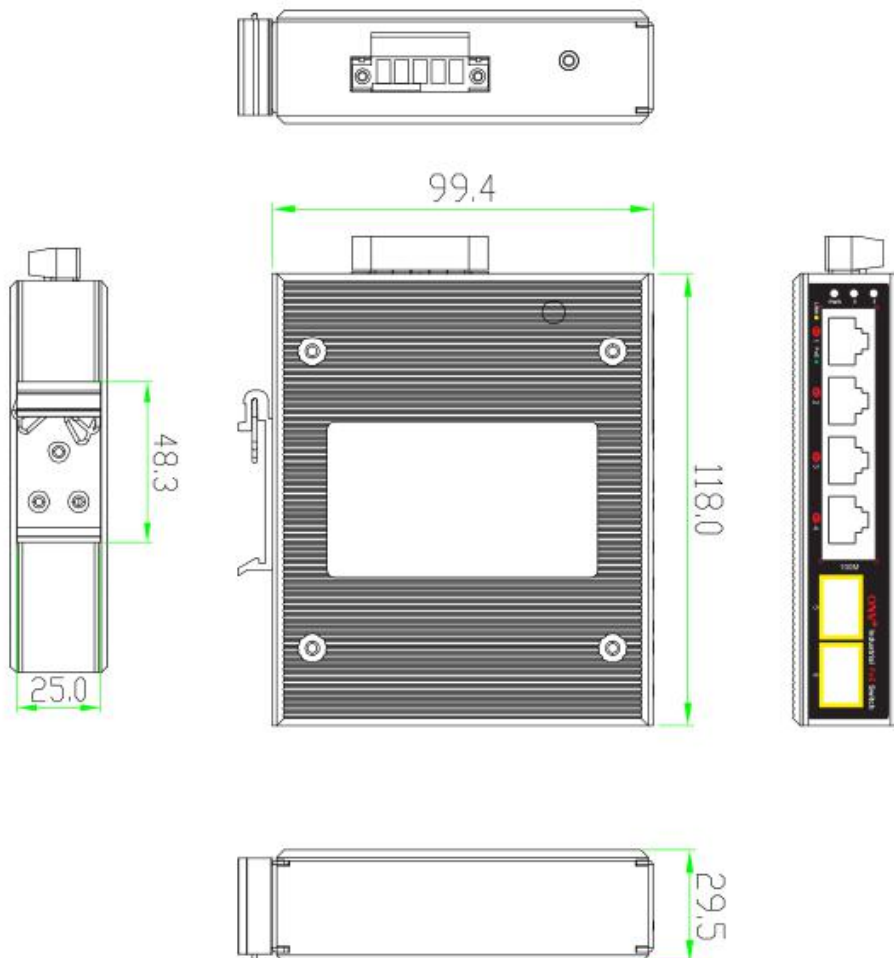
TECHNICAL SPECIFICATION

Model	ONV-IPS31064PF-bt
Interface Characteristics	
Fixed Port	4*10/100Base-TX bt PoE ports (Data /Power) 2*155M uplink SFP fiber slot ports (Data) 2 group of V+, V- redundant DC power interface (5P Phoenix terminal)
Ethernet Port	Port 1-4 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 meter) 100BASE-TX: Cat5e or later UTP(≤100 meter)
Fiber Port Feature	155M SFP fiber interface, no include optical module by default, need to be purchased separately (optional single-mode / multi-mode, single fiber / dual fiber module, LC interface)
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 (Non-blocking)
Forwarding Rate@64byte	0.89Mpps
MAC	1K
Buffer Memory	768K
Jumbo Frame	1536bytes
LED Indicator	Power: PWR (Green), network: Link (Yellow), PoE: PoE (Green), Fiber port: 5 /6 (Green)

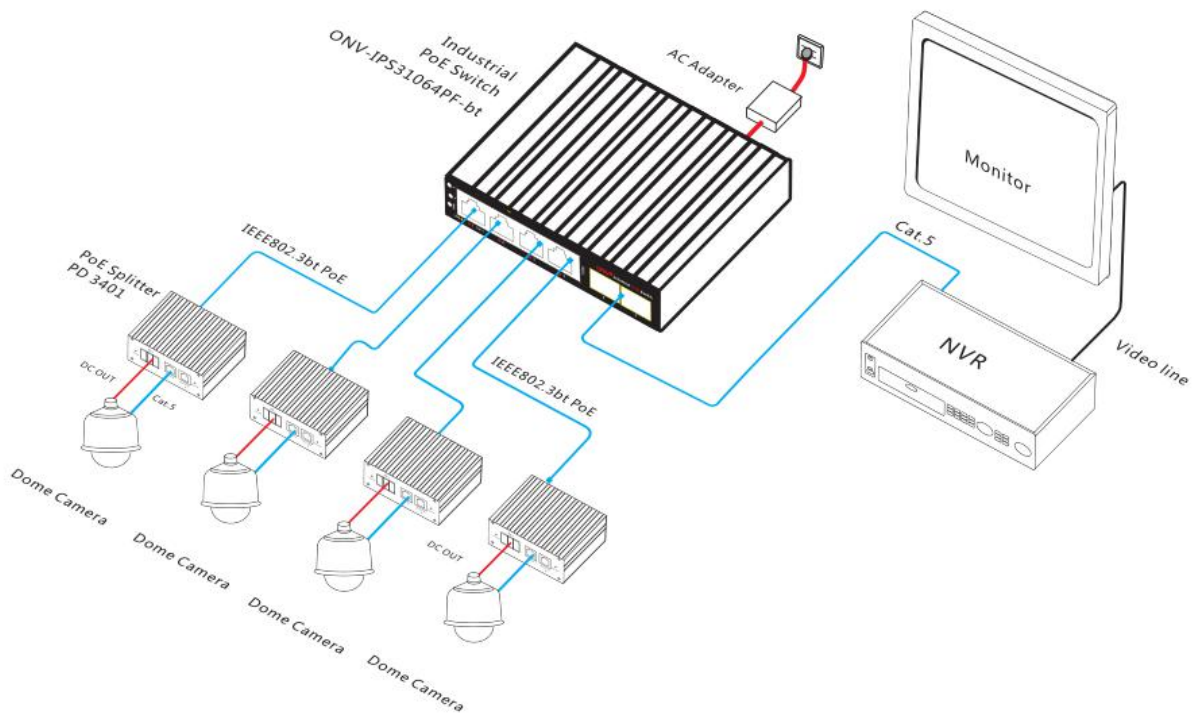
PoE & Power Supply	
PoE Port	Port 1 to 4 IEEE802.3af/at/bt
Power Supply Pin	Default 1/2 (+), 3/6 (-), 4/5 (+), 7/8 (-)
Max Power Per Port	90W, IEEE802.3af/at/bt
Power Consumption	Standby<4W, Full Load<240W
Input Voltage / Interface	48-57VDC, 5P industrial phoenix terminal, anti-reverse protection
Power Supply	No, optional 48V/240W 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	<0.5kg /<0.7kg
Installation	Desktop, 35mm DIN rail mounting
Certification & Warranty	
Lightning Protection	Lightning protection: 6KV 8/20us, Protection level: IP40 IEC61000-4-2(ESD)±8kV Contact Discharge,±15kV Air Discharge IEC61000-4-3(RS)10V/m (80~1000MHz) IEC61000-4-4(EFT)Power Line: ±6kV; Data Line: ±2kV IEC61000-4-5(Surge)Power Line,CM±4kV/DM±2kV;Data Line,±4kV IEC61000-4-6 (Radio Frequency Conduction) 10V(150kHz~80MHz) IEC61000-4-8 (Power Frequency Magnetic Field) 100A/m Continued; 1000A/m,1s to 3s IEC61000-4-9 (Pulsed Magnetic Field) 1000A/m IEC61000-4-10 (Damping Oscillation) 30A/m ,1MHz IEC61000-4-12/18 (SHOCKWAVE) CM 2.5kV, DM 1kV IEC61000-4-16 (Common Mode Conduction) 30V Continued; 300V,1s

	FCC Part 15/CISPR22(EN55022)Class B IEC61000-6-2(General Industry 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	Configure Power Supply
ONV-IPS31064PF -bt	Unmanaged bt industrial PoE fiber switch with 4*10/100M bt PoE ports and 2*155M uplink SFP ports. Port 1-4 can support IEEE802.3af/at/bt. It can support dual DC redundant power input and DIN rail mounting.	240W

Note: bt industrial PoE switch does not match the SFP optical module and power supply.

PACKING LIST

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

OPTICAL MODULE INFORMATION

Product	Model	Description	Unit
155M Optical module	ONV-5315-114	SFP optical module, 155M, single-mode dual fiber 1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC
	ONV-1313-20	SFP optical module, 155M, single-mode single fiber 1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC
	ONV-1315-20	SFP optical module, 155M, single-mode single fiber, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC

POWER SUPPLY

Product	Model	Description	Unit
120W DIN Rail Industrial Power	GWS-DP120-48	Din Rail type 120W single set of output power supply Input Voltage:AC 100V~240V 50-60Hz,2A	PC

Supply		Output Voltage:DC 48V 2.5A Operation Temperature:-40℃—+70℃	
240W DIN Rail Industrial Power Supply	GWS-DP240-48	Din Rail type 240W single set of output power supply Input Voltage:AC 100V~240V 50-60Hz,3A Output Voltage:DC 48V 5A Operation Temperature:-40℃—+70℃	PC
480W DIN Rail Industrial Power Supply	GWS-DP480-48	Din Rail type 480W single set of output power supply Input Voltage:AC 100V~240V 50-60Hz,5A Output Voltage:DC 48V 10A Operation Temperature:-40℃—+70℃	PC

RELATED PRODUCT

Model	Description
ONV-IPS31064P-bt	Unmanaged bt industrial PoE fiber switch with 4*10/100M bt PoE ports and 2*10/100/1000M RJ45 port. Port 1-4 can support IEEE802.3af/at/bt PoE standard. It can support dual DC redundant power input and DIN rail mounting.
ONV-IPS31064PFG-bt	Unmanaged bt industrial PoE fiber switch with 4*10/100M bt PoE ports and 1*10/100/1000M RJ45 port and 1*1000M SFP slot port. Port 1-4 can support IEEE802.3af/at/bt PoE standard. It can support dual DC redundant power input and DIN rail mounting.
ONV-IPS33064P-bt	Unmanaged bt industrial PoE fiber switch with 4*10/100/1000M bt PoE and 2*10/100/1000M RJ45 ports. Port 1-4 can support IEEE802.3af/at/bt PoE

	standard. It can support dual DC redundant power input and DIN rail mounting.
ONV-IPS33064PFG-bt	Unmanaged bt industrial PoE fiber switch with 4*10/100/1000M bt PoE ports and 1*10/100/1000M RJ45 port and 1*1000M uplink SFP port. Port 1-4 can support IEEE802.3af/at/bt PoE standard. It can support dual DC redundant power input and DIN rail mounting.
ONV-IPS33064PF-bt	Unmanaged industrial bt PoE fiber switch with 4*10/100/1000M bt PoE ports and 2*1000M uplink SFP ports. Port 1-4 can support IEEE802.3af/at/bt PoE standard. It can support dual DC redundant power input and DIN rail mounting.
ONV-IPS33064PFM-bt	L2+ managed industrial bt PoE fiber switch with 4*10/100/1000M bt PoE ports and 2*100/1000M uplink SFP ports. Port 1-4 can support IEEE802.3af/at/bt PoE standard. It can support dual DC redundant power input and DIN rail mounting.

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