Product Datasheet

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

ONV-IPS31004PF-bt

OVERVIEW

The ONV-IPS31004PF-bt is a 10/100M unmanaged bt industrial PoE fiber switch independently developed by ONV. It has 4*10/100Base-TX RJ45 ports and 1*155M uplink SC ports. Port 1-4 can support 71W PoE super high power output and backward compatible with the IEEE802.3af/at 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.

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FEATURE

■ **10/100Mbps RJ45/SC port, fast Ethernet**

◇ The combination of 10/100M RJ45 port and 155M SC optical port 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 bt 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 95W, 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.

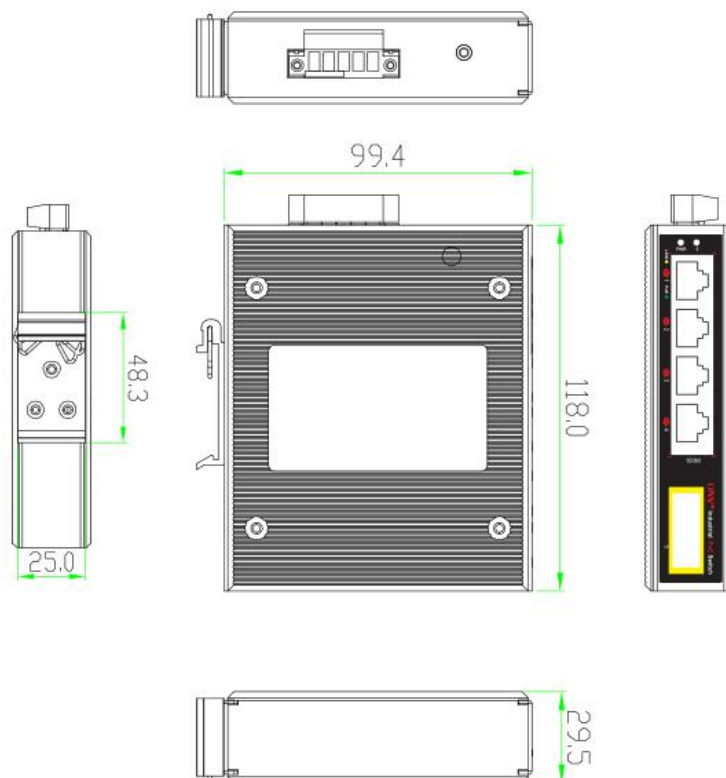◇ The user-friendly panel, it can show the device status through the LED indicator of PWR, Link ,PoE.

TECHNICAL SPECIFICATION

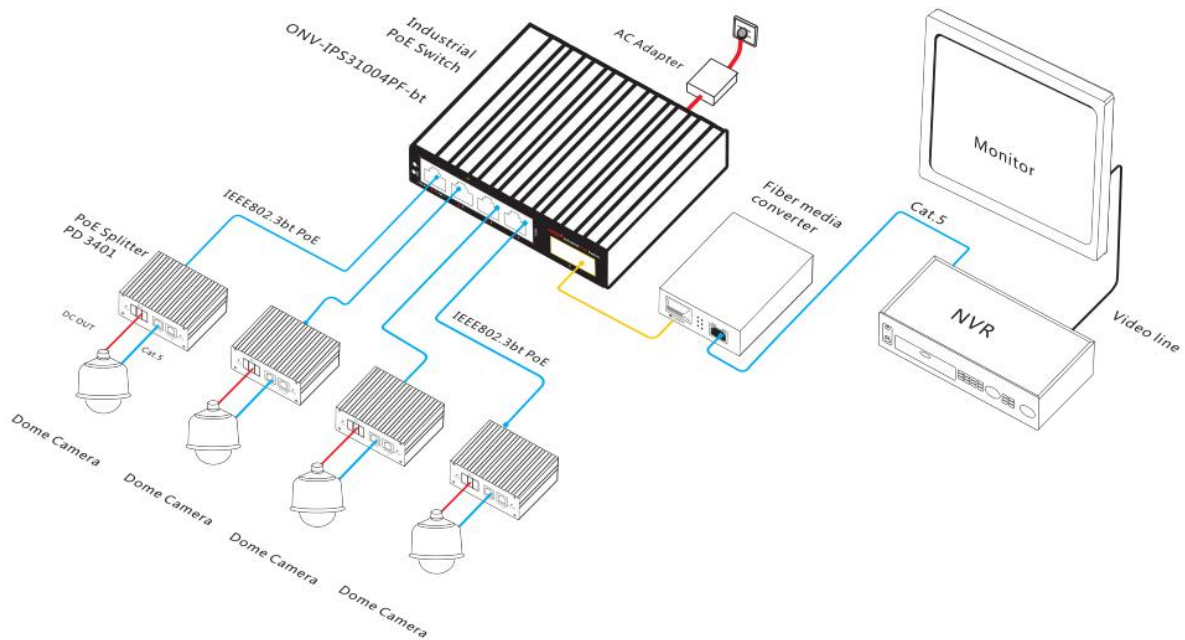| Model	ONV-IPS31004PF-bt
Interface Characteristics	
Fixed Port	4*10/100Base-TX bt PoE ports (Data /Power) 1*155M uplink SC port (Data) 2 groud of V+, V- redundant DC power interface (5P Phoenix terminal)
Ethernet Port	Port 1-4 can support 10/100Base-TX auto-sensing,full/half duplex MDI/MDI-X self-adaption
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-TX: Cat5e or later UTP(≤100 meter)
Fiber Port Feature	The default optical module is single-mode dual-fiber 20km, SC port
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	0.744Mpps
MAC	1K
Buffer Memory	768K
Jumbo Frame	1536bytes
LED Indicator	Power: PWR (green), network: Link (yellow), PoE: PoE (green), fiber port : 5 (green)
PoE & Power	

PoE Port	Port 1 to 4 @bt POE and backward compatible with IEEE802.3af/at
Power Supply Pin	Defaul 1/2 (+), 3/6 (-), 4/5 (+), 7/8 (-)
Max Power Per Port	95W, IEEE802.3af/at/bt
Total PWR / Input Voltage	240W / (DC48-57V)
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	-20~+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 / protection level	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 cable:±4kV; data cable:±2kV IEC61000-4-5(Surge):power cable:CM±4kV/DM±2kV; data cable:±4kV IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz) IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m ,1s to 3s 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

	IEC61000-4-16(common-mode transmission):30V; 300V,1s
	FCC Part 15/CISPR22(EN55022):Class A
	IEC61000-6-2(Common Industrial 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

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APPLICATION

ORDERING INFORMATION

Model	Description	Configure Power Supply
ONV-IPS31004PF-bt	Unmanaged bt industrial PoE fiber switch with 4*10/100M RJ45 ports and 1*155M uplink SC port. Port 1-4 can support 71W super high power out and backward compatible with POE@IEEE802.3af/at. By default, the SC port 1310nm/20km single mode dual fiber module is configured. It can support dual DC redundant power input and DIN rail mounting.	240W
ONV-IPS31004PF-M-bt	Unmanaged bt industrial PoE fiber switch with 4*10/100M RJ45 ports and 1*155M uplink SC port.	240W

	Port 1-4 can support 71W super high power out and backward compatible with POE@IEEE802.3af/at. By default, the SC port 850nm/0.5km or 1310nm/2km multi-mode dual fiber module is configured. It can support dual DC redundant power input and DIN rail mounting.	
ONV-IPS31004PF-A-bt	Unmanaged bt industrial PoE fiber switch with 4*10/100M RJ45 ports and 1*155M uplink SC port. Port 1-4 can support 71W super high power out and backward compatible with POE@IEEE802.3af/at. By default, the SC port 1310nm/20km single mode single fiber module is configured. It can support dual DC redundant power input and DIN rail mounting.	240W
ONV-IPS31004PF-B-bt	Unmanaged bt industrial PoE fiber switch with 4*10/100M RJ45 ports and 1*155M uplink SC port. Port 1-4 can support 71W super high power out and backward compatible with POE@IEEE802.3af/at. By default, the SC port 1550nm/20km single mode single fiber module is configured. It can support dual DC redundant power input and DIN rail mounting.	240W

Note: bt industrial PoE switch does not match the power supply.

PACKING LIST

	CONTENT	QTY	UNIT
PACKING LIST	5-port 10/100M bt industrial PoE fiber switch	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

POWER SUPPLY SELECTION TABLE

Product	Model	Description	Unit
120W DIN Rail Industrial Power Supply	GWS-DP120-48	Din Rail type 120W single set of output power supply; Input Voltage:AC 100V~240V 50-60Hz,2A Output Voltage:DC 48V 2.5A Operation Temperature:-40℃—+70℃	PC
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 switch with 6*10/100M RJ45 ports. Port 1-4 can support 71W super high power out and backward compatible with POE@IEEE802.3af/at. It can support dual DC redundant power input and DIN rail mounting.
ONV-IPS31064PF-bt	Unmanaged bt industrial PoE fiber switch with 4*10/100M RJ45 ports and 2*155M uplink SFP ports. Port 1-4 can support 71W super high power out and backward compatible with POE@IEEE802.3af/at. 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 RJ45 ports and 1*10/100/1000M RJ45 port and 1*1000M uplink SFP port. Port 1-4 can support 71W super high power out and backward compatible with POE@IEEE802.3af/at. It can support dual DC redundant power input and DIN rail mounting.
ONV-IPS33064P-bt	Unmanaged bt industrial PoE fiber switch with 6*10/100/1000M RJ45 ports. Port 1-4 can support 71W super high power out and backward compatible with POE@IEEE802.3af/at. It can support dual DC redundant power input and DIN rail mounting.
ONV-IPS33064PFG-bt	Unmanaged bt industrial PoE fiber switch with 5*10/100/1000M RJ45 ports and 1*1000M uplink SFP port. Port 1-4 can support 71W super high power out and backward compatible with POE@IEEE802.3af/at. 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 RJ45 ports and 2*1000M uplink SFP ports. Port 1-4 can support 71W super high power out and backward compatible with

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	POE@IEEE802.3af/at.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 RJ45 ports and 2*100/1000M uplink SFP ports. Port 1-4 can support 71W super high power out and backward compatible with POE@IEEE802.3af/at.It can support dual DC redundant power input and DIN rail mounting.

CONTACT US

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