

## Product Datasheet

# 6-port Full Gigabit bt Industrial PoE Fiber Switch

## ONV-IPS33064PF-bt



## OVERVIEW

The ONV-IPS33064PF-bt is a full gigabit unmanaged bt industrial PoE fiber switch independently developed by ONV. It has 4\*10/100/1000M RJ45 ports and 2\*1000M SFP slot 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.

## FEATURE

### ■ Full gigabit Ethernet access

- ◇ gigabit RJ45 ports and SFP fiber ports combination, high-speed high-bandwidth connection, to meet the networking needs of various scenarios.
- ◇ 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\*10/100/1000Base-T 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 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/Act, PoE.

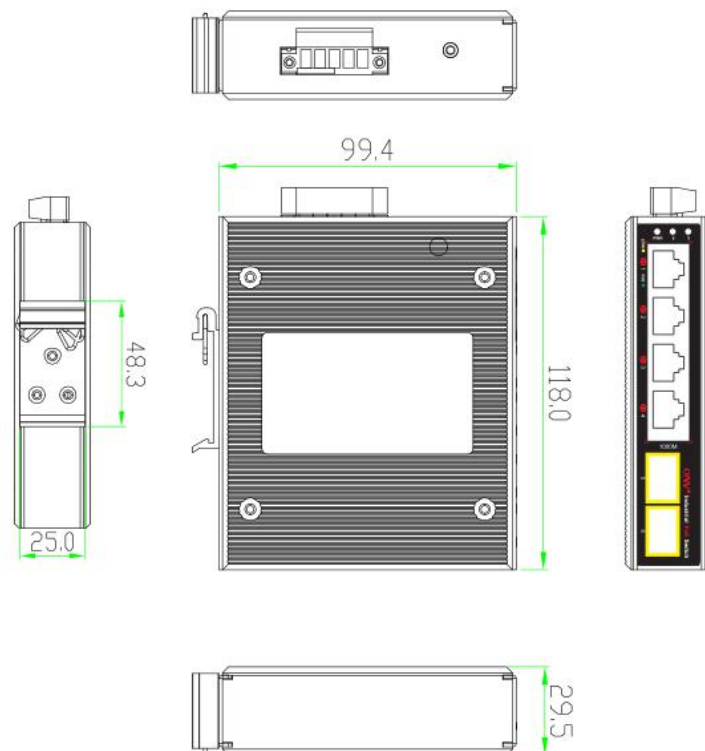
## TECHNICAL SPECIFICATION

Model	ONV-IPS33064PF-bt	ONV-IPS33064PFG-bt
<b>Interface Characteristics</b>		
Fixed Port	4*10/100/1000M bt PoE ports (Data /Power) 2*1000M uplink SFP ports (Data) 2 group of V+, V- redundant DC power interface (5P Phoenix terminal)	4*10/100/1000M bt PoE ports (Data /Power) 1*10/100/1000M uplink RJ45 port (Data) 1*1000M uplink SFP port (Data) 2 group of V+, V- redundant DC power interface (5P Phoenix terminal)
Ethernet Port	10/100/1000Base-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) 1000BASE-T: Cat5e or later UTP(≤100 meter)	
SFP Slot Port	Gigabit SFP optical fiber port, default matching optical modules (optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC)	
Optical Cable/ Distance	Multi mode: 850nm / 0 ~ 500M, Single mode: 1310nm/ 0 ~ 40KM, 1550nm 0 ~ 120KM.	
<b>Chip Parameter</b>		
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T IEEE802.3u 100Base-TX, IEEE802.3u 1000Base-T IEEE802.3z 1000Base-X, IEEE802.3x	
Forwarding Mode	Store and Forward(Full Wire Speed)	
Switching Capacity	12Gbps (Non-blocking)	
Forwarding Rate@64byte	8.93Mpps	

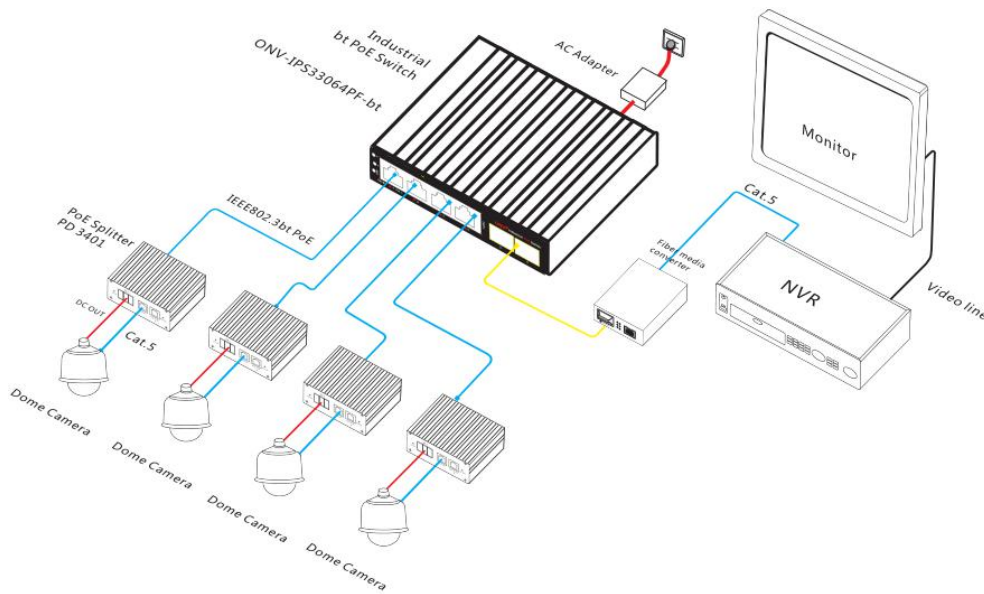
MAC	2K
Buffer Memory	2M
Jumbo Frame	9.2K
LED Indicator	Power: PWR (green), network: Link (yellow), PoE: PoE (green)
<b>PoE &amp; Power</b>	
PoE Port	Port 1 to 4 @bt POE and backward compatible with IEEE802.3af/at
Power Supply Pin	Default 1/2 (+), 3/6 (-), 4/5 (+), 7/8 (-)
Max Power Per Port	95W; IEEE802.3af/at/bt
Total PWR / Input Voltage	240W / (DC48-57V)
Power Consumption	Standby<6W, Full Load<240W
Input Voltage / Interface	48-57VDC, 5P industrial phoenix terminal, anti-reverse protection
Power Supply	No, optional 48V/240W industrial power supply
<b>Physical Parameter</b>	
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
<b>Certification &amp; Warranty</b>	
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

	<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 A</p> <p>IEC61000-6-2(Common Industrial Standard)</p>
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-IPS33064PF-bt	Unmanaged bt industrial PoE 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 POE@IEEE802.3af/at. It can support dual DC redundant power input and DIN rail mounting.	240W
ONV-IPS33064PFG-bt	Unmanaged bt industrial PoE 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.	240W

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

## PACKING LIST

PACKING LIST	CONTENT	QTY	UNIT
	6-port full gigabit bt industrial PoE fiber switch	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

## OPTICAL MODULE INFORMATION

Product	Model	Description	Unit
1.25G Optical Module	ONV-2630	SFP optical module, 1.25G, multi mode dual fiber 850nm, transmission distance: 550m, LC interface, support DDM function, support hot plug and pull.	PC
	ONV-2632	SFP optical module, 1.25G, single-mode dual fiber 1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC
	ONV-2612-T	SFP optical module, 1.25G, single-mode single fiber TX1310nm/RX1550nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC
	ONV-2613-R	SFP optical module, 1.25G, single-mode single fiber TX1550nm/RX1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC
	2612-T-G	Industrial SFP optical module, 1.25G, single-mode single fiber TX1310nm/RX1550nm, transmission	PC

		distance: 20km, LC interface, support DDM function, support hot plug and pull.	
	2613-R-G	Industrial SFP optical module, 1.25G, single-mode single fiber TX1550nm/RX1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC
	ONV-2612-T-S C	SFP optical module, 1.25G, single-mode single fiber TX1310nm/RX1550nm, transmission distance: 20km, SC interface, support DDM function, support hot plug and pull.	PC
	ONV-2613-R-S C	SFP optical module, 1.25G, single-mode single fiber TX1550nm/RX1310nm, transmission distance: 20km, SC interface, support DDM function, support hot plug and pull.	PC
Power Module	ONV-2633	1.25G SFP optical module transfers to 10/100/1000M RJ45 port.	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	GWS-DP240-48	Din Rail type 240W single set of output power supply;	PC



Supply		Input Voltage:AC 100V~240V 50-60Hz,3A Output Voltage:DC 48V 5A Operation Temperature:-40℃—+70℃	
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-IPS31064PFG-bt	Unmanaged bt industrial PoE fiber switch with 4*10/100M RJ45 ports and 1*10/100/1000M uplink 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-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. 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-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-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.

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