Product Datasheet

6-port Gigabit Uplink bt Industrial PoE Fiber Switch

(ONV-IPS31064PFG-bt)

OVERVIEW

The ONV-IPS31064PFG-bt is a gigabit uplink unmanaged bt industrial PoE fiber switch independently developed by ONV. It has 4*10/100Base-TX RJ45 ports and 1/10/100/1000Base-T RJ45 port and 1*1000M SFP slot port. Port 1-4 can support IEEE802.3af/at/bt PoE standard. Single-port PoE power output is 90W. 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 access, gigabit RJ45&SFP port uplink**

◇ The combination of 10/100M RJ45 port and gigabit RJ45 & SFP slot 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 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.

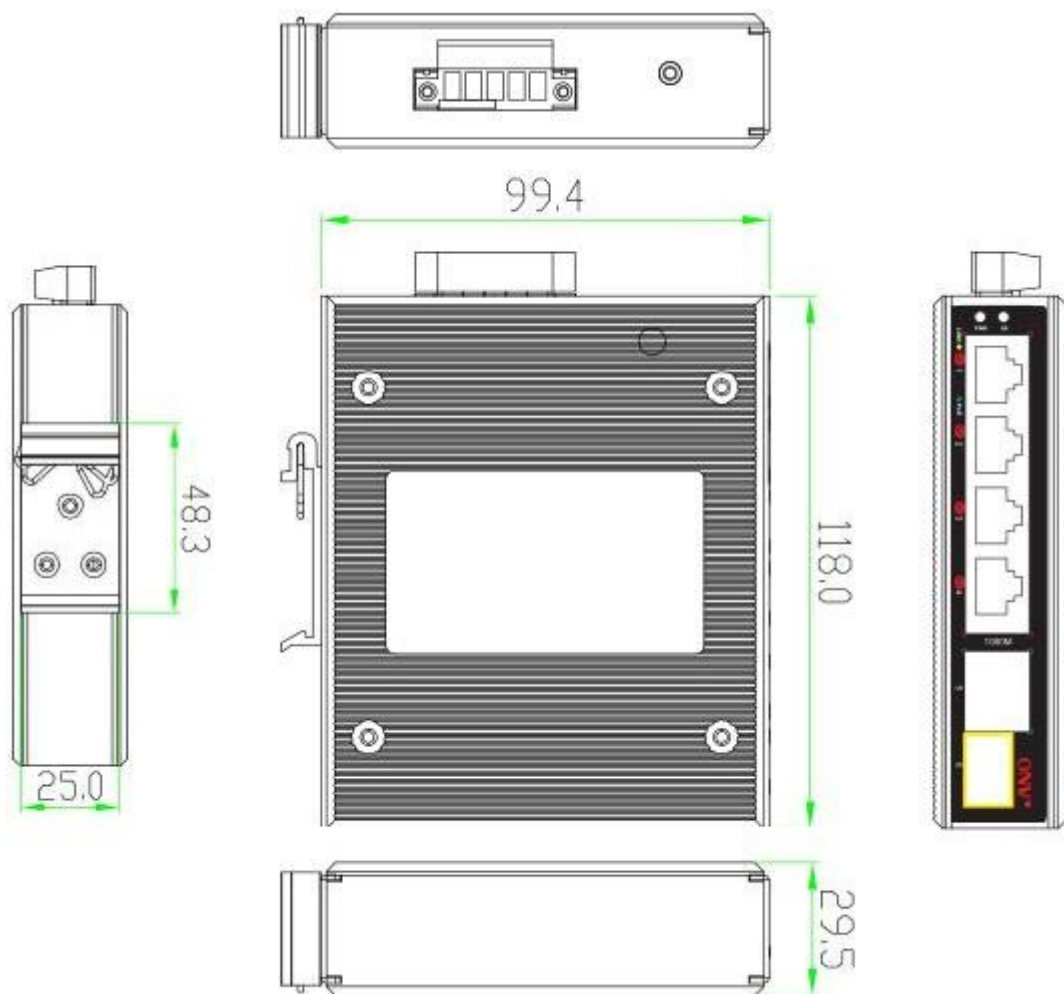◇ The user-friendly panel can show the device status through the LED indicator of PWR, Link/Act, PoE.

TECHNICAL SPECIFICATION

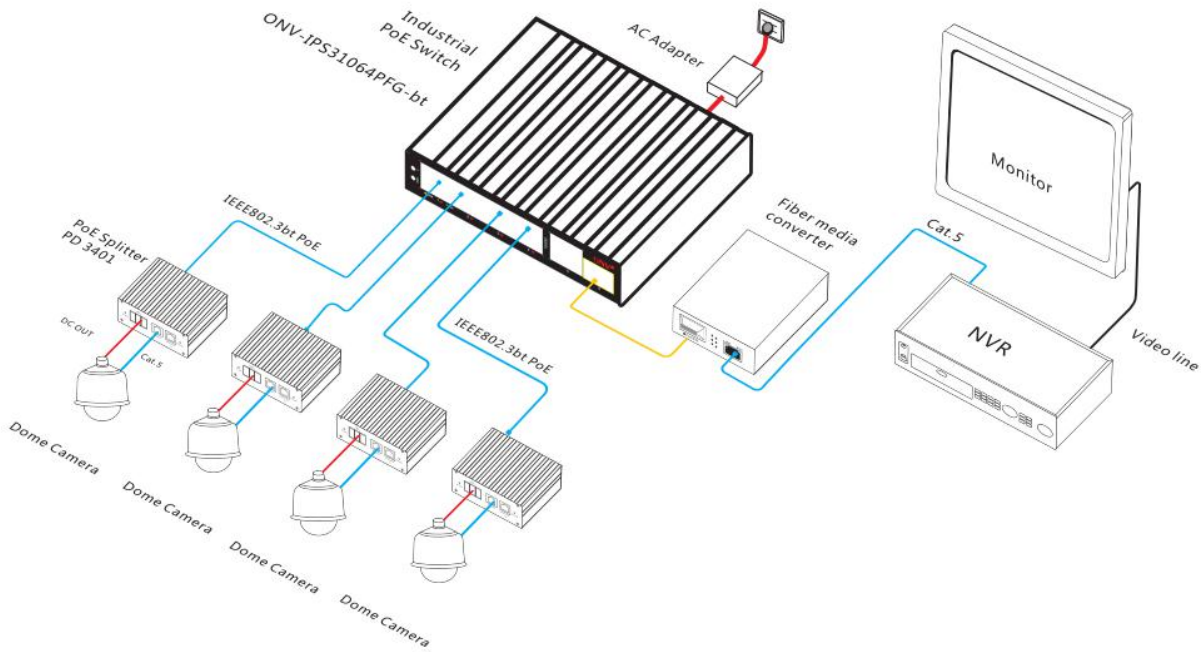| Model	ONV-IPS31064PFG-bt
Interface Characteristics	
Fixed Port	4*10/100Base-TX bt PoE ports (Data /Power) 1*10/100/1000Base-T uplink RJ45 port (Data) 1*1000Base-X uplink SFP port (Data) 2 group of V+, V- redundant DC power interface (5P Phoenix terminal)
Ethernet Port	Port 1-4 can support 10/100Base-TX auto-sensing,full/half duplex MDI/MDI-X self-adaption
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-TX: Cat5 or later UTP(≤100 meter) 1000BASE-T: Cat5e or later UTP(≤100 meter)
Fiber Port Feature	Gigabit 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, Single-mode: 1310nm / 0~40KM, 1550nm/ 0-120KM.
Chip Parameter	
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X,IEEE802.3x
Forwarding Mode	Store and Forward(Full Wire Speed)
Switching Capacity	8Gbps (Non-blocking)
Forwarding Rate@64byte	3.57Mpps
MAC	2K
Buffer Memory	2M
Jumbo Frame	9.2K
LED Indicator	Power: PWR (Green), network: Link (Yellow), PoE: PoE (Green), Rate:

	Speed (Green)
PoE & Power Supply	
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	90W, IEEE802.3af/at/bt
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
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	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 B 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

+86 755 33376606
Optical Network Video Technologies (Shenzhen) Co., Ltd. ONV

APPLICATION

ORDERING INFORMATION

Model	Description	Configure Power Supply
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 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.	240W

Note: bt industrial PoE fiber switch does no include the SFP optical module and power supply.

PACKING LIST

PACKING LIST	CONTENT	QTY	UNIT
	6-port gigabit uplink 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 distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC

	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-SC	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-SC	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

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	PC

		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 IEEE802.3af/at/bt PoE standard. 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 bt PoE ports and 2*155M 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-IPS33064P-bt	Unmanaged bt industrial PoE fiber switch with 4*10/100/1000M bt PoE ports 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.

CONTACT US

ONV **OPTICAL NETWORK VIDEO TECHNOLOGIES (SHENZHEN) CO., LTD**

Tel: 0086-755-33376606

Fax: 0086-755-33376608

Email: onv@onv.com.cn

Website: www.onvcom.com

Zip: 518000

Headquarter Address: Room 1003, Block D, Terra Building, Futian District, Shenzhen,China

Factory Address: The 4-6th Floor, No. 59, Huaning Road, Xinwei Community, Dalang Street, Longhua District, Shenzhen, China