#### **Product Datasheet**

## 12-port Gigabit Uplink Industrial PoE Fiber Switch

(ONV-IPS31128PFB)



#### **OVERVIEW**

The ONV-IPS31128PFB is a Gigabit uplink industrial PoE fiber switch independently developed by ONV. It has 8\*10/100M PoE ports and 2\*10/100/1000M RJ45 ports and 2\*1000M SFP slot ports. Port 1-8 can support IEEE802.3af/at PoE standard. Single-port PoE power is 30W. 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 can supply power to POE terminal equipment such as wireless AP, webcam, VoIP phone, and industrial sensors through the network cable, and meet the network environment that needs a high-density PoE power supply. It is suitable for intelligent transportation, rail transit, electric power, mining, metallurgy and green energy, and 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**

#### ■ 10/100M access, gigabit TP&SFP port uplink

- ♦ Support non-blocking wire-speed forwarding.
- ♦ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.
- Support 10/100M RJ45 port and gigabit TP&SFP port combination, which enables users to flexibly build networking to meet the needs of various scenarios.

#### ■ Intelligent PoE power supply

- ♦ IEEE802.3af/at PoE standard, without damaging non-PoE devices.
- ♦ 8\*10/100Base-TX RJ45 ports support PoE power supply to meet the needs of PoE power supply in various scenarios in the industrial field.
- 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, No fan, aluminum shell.
- The user-friendly panel can show the device status through the LED indicator of PWR, Link, PoE.

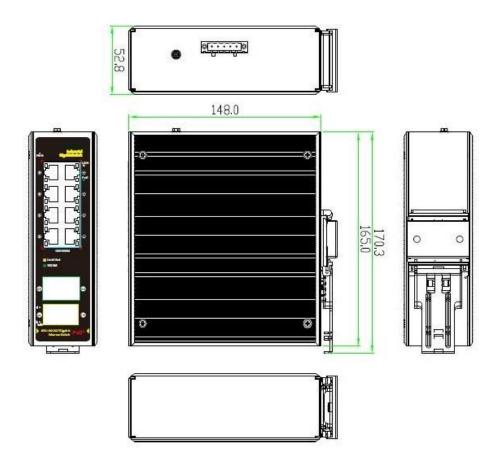
# **TECHNICAL SPECIFICATION**

Model	ONV-IPS31128PFB	
Interface Characteristics		
	2*1000Base-X SFP slot ports(Data)	
Fixed Port	2*10/100/1000Base-T RJ45 ports (Data)	
TIXEUT OIL	8*10/100Base-TX PoE ports (Data/Power)	
	2 set of V+, V- redundant DC power interface (5 Pin Phoenix terminal)	
	10BASE-T: Cat3,4,5 UTP(≤100 meter)	
Twisted Pair Transmission	100BASE-TX: Cat5 or later UTP(≤100 meter)	
	1000BASE-T: Cat5e or later UTP(≤100 meter)	
	Port 1-8 support 10/100Base-TX and port 9-10 support	
Ethernet Port	10/100/1000Base-T(X) auto-sensing, full/half duplex MDI/MDI-X	
	self-adaption	
	Gigabit SFP optical fiber interface, default no include optical modules	
SFP Slot Port	(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	
Chip Parameter		
National Parts	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u100Base-TX	
Network Protocol	IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x	
Forwarding Mode	Store and Forward(Full Wire Speed)	

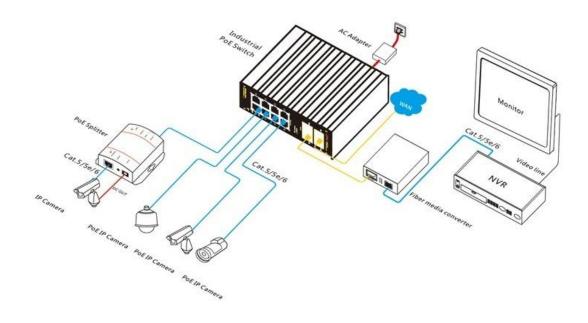
Switching Capacity	12Gbps
Forwarding Rate@64byte	7.14Mpps
MAC	2K
Buffer Memory	2M
Jumbo Frame	9.2K
LED Indicator	Power: PWR (Green), Network: Link, link/Act (Yellow), PoE: PoE (Green), Rate: 1000M (Green)
PoE & Power Supply	
PoE Port	Port 1-8
Power Supply Pin	Default 1/2 (+) 3/6 (-)
Max Power Per Port	30W, IEEE802.3af/at
Power Consumption	Standby<8W, Full load: af<120W, af<240W
Working Voltage	DC48-57V, 5 Pin industrial Phoenix terminal, support anti-reverse protection
Power Supply	No, optional 48V/120W industrial power supply
Physical Parameter	
Operation TEMP / Humidity	-40~+80°C, 5%~90% RH Non condensing
Storage TEMP / Humidity	-40~+85°C, 5%~95% RH Non condensing
Dimension (L*W*H)	165*148*54mm
Net /Gross Weight	<1.3kg / <1.8 kg
Installation	Desktop, 35mm DIN rail

Certification & Warranty		
	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)	
Lightning Protection	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)	
	IEC60068-2-6 (anti vibration)	
Mechanical Properties	IEC60068-2-27 (anti shock)	
	IEC60068-2-32 (free fall)	
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B,	
Solution	RoHS	
Warranty	5 years, lifelong maintenance.	

### **DIMENSION**



## **APPLICATION**



### **ORDERING INFORMATION**

Model	Description	Recommended Power Supply
	Unmanaged industrial PoE fiber switch with 8*10/100M	
	PoE ports and 2*10/100/1000M RJ45 ports and	
ONV-IPS31128PFB	2*1000M SFP slot ports. Port 1-8 can support	120W/240W
	IEEE802.3af/at PoE standard. It can support DC dual	
	redundant power input and DIN rail mounting.	

**Note:** The switch is not include SFP optical module and power supply, and needs to be purchased separately.

### **PACKING LIST**

	CONTENT	QTY	UNIT
DACKING LIST	12-port gigabit uplink industrial PoE fiber switch	1	SET
PACKING LIST	User Guide	1	PC
	Warranty Card	1	PC

### **OPTICAL MODULE**

Product	Model	Description	Unit
1.25G Optical Module	2630-G	Industrial SFP optical module, 1.25G, multi-mode dual fiber 850nm, transmission distance: 550m, LC interface, support DDM function, support hot plug and pull.	PC
Wodule	2632-G	Industrial SFP optical module, 1.25G, single-mode dual fiber 1310nm, transmission distance: 20km, LC interface,	PC

		support DDM function, support hot plug and pull.	
	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
	2612-T-G-SC	Industrial 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
	2613-R-G-SC	Industrial 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	2633	1.25G SFP optical module transfers to 10/100/1000M RJ45 port.	PC

# **POWER SUPPLY**

Product	Model	Description	Unit
130W Desktop Power Adaptor	GWS-AP130-52	Desktop tape 130W single set of output power adapter Input Voltage:AC 100V~240V 50-60Hz,2.3A Output Voltage:DC 52V 2.5A Operation Temperature:-20°C—+65°C	PC

250W Desktop Power Adaptor	GWS-AP250-52	Desktop tape 250W single set of output power adapter Input Voltage:AC 100V~240V 50-60Hz,4.1A Output Voltage:DC 52V 4.8A Operation Temperature:-20°C—+65°C	PC
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,1.5A Output Voltage:DC 48V 2.5A Operation Temperature:-40°C—+70°C	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°C—+70°C	PC

## **RELATED PRODUCT**

Model	Description	
	Unmanaged industrial PoE fiber switch with 1*10/100M RJ45 port	
ONV-IPS31021PF	and 1*155M SC port. Port 1-2 can support PoE IEEE802.3af/at. It	
ONV-1F331021FF	can support dual DC redundant power input (Phoenix terminal	
	connection) and DIN rail mounting.	
	Unmanaged industrial PoE fiber switch with 2*10/100M PoE ports	
ONV-IPS31032PF	and 1*155M SC port. Port 1 -2 can support PoE IEEE802.3af/at. It	
ONV-1F331032FF	can support dual DC redundant power input (Phoenix terminal	
	connection) and DIN rail mounting.	
ONV-IPS31004PF	Unmanaged industrial PoE fiber switch with 4*10/100M RJ45 ports	

	and 1*155M SC port. Port 1-4 can support PoE IEEE802.3af/at. It
	can support dual DC redundant power input (Phoenix terminal
	connection) and DIN rail mounting.
	Unmanaged industrial PoE fiber switch with 4*10/100M RJ45 ports
ONV-IPS31064PF	and 2*155M SC ports. Port 1-4 can support PoE IEEE802.3af/at. It
	can support DC dual redundant power input and DIN rail mounting.
	Unmanaged industrial PoE fiber switch with 6*10/100M RJ45 ports
ONV-IPS31084PF	and 2*155M SC port. Port 1-4 can support PoE IEEE802.3af/at. It
	can support dual DC redundant power input (Phoenix terminal
	connection) and DIN rail mounting.

### **CONTACT US**



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

Tel: 0086-755-33376606

Fax: 0086-755-33376608

Website: www.onvcom.com

Email/Skype/WeChat ID: onv@onv.com.cn

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