

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

Product Datasheet

12-Port Full Gigabit Industrial PoE Switch

(ONV-IPS33128PF)



OVERVIEW

The ONV-IPS33128PFseries is a full gigabit industrial PoE switch independently developed by ONV. It has 10*10/100/1000M RJ45 ports and 2*100/1000 SFP slot ports, Port 1-8 can support IEEE 802.3af/at standard POE power supply, single port POE power up to 30W, and the maximum POE output power is 120W (at-240W). As a POE power supply device, it can automatically detect and identify the electrical equipment that meets the standard and supply power through the cable. It can supply the POE terminal equipment, such as wireless AP, network camera, network telephone, industrial sensor and so on, to meet the demand for high-density PoE power supply network environment. It is suitable for intelligent transportation, rail transportation, electric power industry, mining, metallurgy and green energy construction and so on.

Unmanaged model, plug and play, no configuration, easy to use.

FEATURE

■ Gigabit wire speed access, Gigabit SFP fiber port uplink

- ◇ All series supports "Ethernet port + SFP port" combination, which enables users to flexibly build networking to meet the needs of various scenarios.
- ◇ Support non-blocking wire speed forwarding .
- ◇ Support full duplex based on IEEE802.3x and half duplex based on backpressure .

■ Intelligent POE power supply function

- ◇ 8*10/100/1000Base-T RJ45 ports support POE power supply to meet the needs of POE in various industrial fields.
- ◇ Conforms to the IEEE 802.3af POE power supply standard, automatically recognizes POE devices for power supply, without damaging non-POE devices. The maximum POE output power of the entire device reaches 120W, and the maximum POE output power of a single port is 30 W.
- ◇ Support POE network management function, through the network management configuration, POE port power allocation, priority setting, port power status view, time scheduling, etc.

■ The equipment is stable and reliable

- ◇ The host has low power consumption and fanless quiet design. The aluminum alloy metal casing has excellent heat dissipation to ensure stable operation of the product.
- ◇ The equipment fully meets the requirements of CCC, CE, FCC and RoHS safety regulations, and is safe and reliable.
- ◇ The user can easily understand the working status of the device through the power indicator (PWR), port status indicator (Link,), and POE operation indicator.

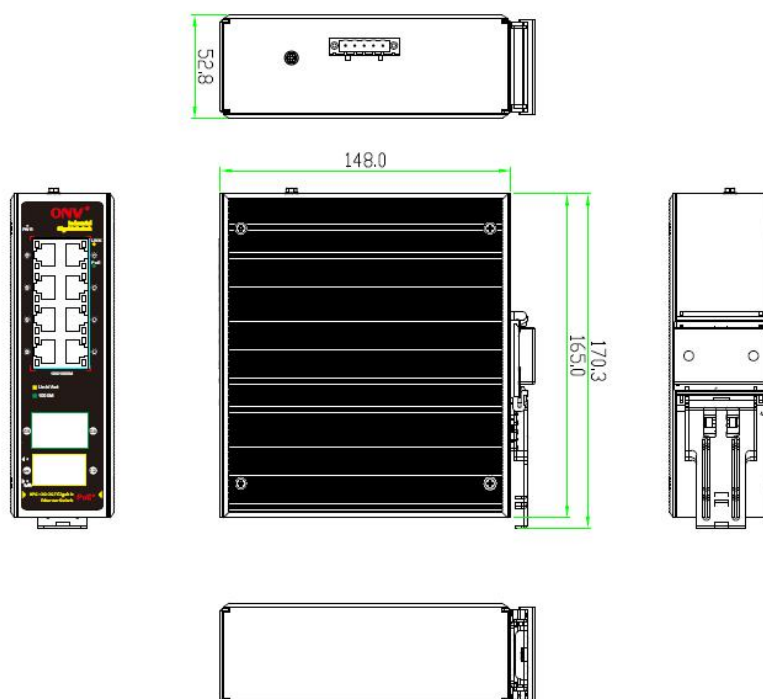
TECHNICAL SPECIFICATION

Model	ONV-IPS33128PF	ONV-IPS33128PF-at
Interface	8*10/100/1000Base-T PoE ports (Data/Power) 2*10/100/1000Base-T uplink RJ45 ports (Data) 2*100/1000Base-X uplink SFP slot ports (Data) 2 sets of V+, V- redundant DC power interface (5 Pin Phoenix terminal)	
PoE Port	Port 1-8 can support POE @ IEEE802.3af/at	

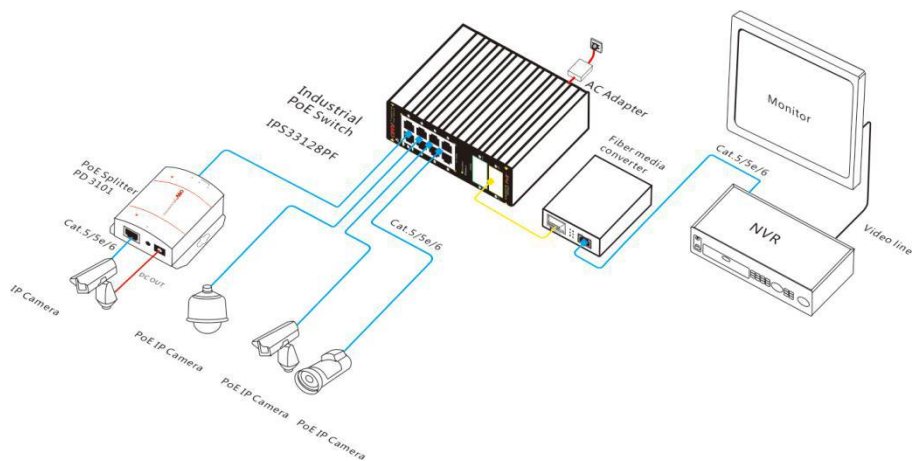
Network Protocol	IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3u 100Base-TX; IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-X IEEE802.3x	
PoE Standard	IEEE802.3af/at	
Ethernet Port Feature	10/100/1000Base-T(X) automatic detection, full / half duplex MDI/MDI-X adaptive	
SFP Port Characteristic	Gigabit SFP optical fiber interface, default matching optical modules, need to buy separately, (optional order mode / multi-mode, single fiber / double fiber optical module.	
Forwarding Mode	Store and Forward(Full Wire Speed)	
Switching Capacity	24Gbps	
Forwarding Rate@64byte	17.86Mpps	
MAC	8K	
Buffer Memory	4M	
Jumbo Frames	9.2K	
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)	
Optical Cable	Multi mode: 850nm 0 ~ 550M, single mode: 1310nm 0 ~ 40KM, 1550nm 0 ~ 120KM.	
Power Supply Pin	Only support 1/2 (+), 3/6 (-);	
MAX / AVERAGE Power Per Port	30W/15.4W	30W/30W
Total PWR / Input Voltage	120W /48VDC	240W/48VDC
Power Consumption	Standby:<8W;Full load:<120W	Standby:<10W;Full load:<240W
LED	Power Indicator: PWR (green);Network Indicator: Link ,link/Act(yellow); PoE Indicator: PoE (green)	
Power Supply	No, you can purchase industrial power supply 48V/120W or 48V/240W, see the accessory information table for purchase.	
Operation TEMP / Humidity	-40~+80°C;5%~90% RH Non condensing	
Storage TEMP / Humidity	-40~+85°C;5%~95% RH Non condensing	
Dimension	165*148*54mm	

Net /Gross Weight	<1.3kg / <1.8kg
Lightning protection / protection level	<p>Lightning protection: 6KV 8/20us;Protection level: IP40</p> <p>IEC61000-4-2(ESD):±8kV contact discharge,±15kV air discharge</p> <p>IEC61000-4-3(RS):10V/m(80~1000MHz)</p> <p>IEC61000-4-4(EFT): power cable:±4kV; data cable:±2kV</p> <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>
Installation Method	desktop type. 35mm DIN rail mounting
Mechanical Properties	<p>IEC60068-2-6 (anti vibration)</p> <p>IEC60068-2-27 (anti shock)</p> <p>IEC60068-2-32 (free fall)</p>
Certification	CCC;CE mark, commercial; CE/LVD EN60950;FCC Part 15 Class B; ROHS;
Warranty	5 years, lifelong maintenance.

DIMENSION



APPLICATION



PACKING LIST

	CONTENT	QTY	UNIT
PACKING LIST	12-port full gigabit industrial PoE switch (ONV-IPS33128PF)	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

Note: industrial PoE switch does not match the power supply and SFP module by default. If you need to purchase it, please refer to the accessory product information.

ORDERING INFORMATION

Model	Description
ONV-IPS33128PF	unmanaged industrial PoE fiber switch with 10*10/100/1000M RJ45 ports and 2*1000M uplink SFP slot ports , Port 1-8 can support IEEE 802.3af/at POE standard, total power less than 120W. Support DC dual power supply input (Phoenix terminal). Support DIN rail mounting.
ONV-IPS33128PF-at	unmanaged industrial PoE fiber switch with 10*10/100/1000M RJ45 ports and 2*1000M uplink SFP slot ports , Port 1-8 can support IEEE 802.3af/at POE standard, total power less than 240W. Support DC dual power supply input (Phoenix terminal). Support DIN rail mounting.

SELECTION OF INFORMATION

Fiber Module Selection Table

Product	Model	Description	Unit
1.25G Fiber 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.	
	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.	
	ONV-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
	ONV-2613-R-G	Industrial SFP optical module, 1.25G, single-mode single fiber TX1550nm/RX1310nm, transmission	PC

		distance: 20km, LC interface, support DDM function, support hot plug and pull.	
	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
Electric Module	ONV-2633	1.25G SFP optical module transfers to 10/100/1000M RJ45 net port.	PC

POWER SUPPLY SELECTION TABLE

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℃—+65℃	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℃—+65℃	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℃—+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

CONTACT US



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