

Product Datasheet

10-port Gigabit Industrial PoE Switch

(ONV-IPS33108P)



OVERVIEW

The ONV-IPS33108P is a Gigabit industrial PoE switch independently developed by ONV. It has 10*10/100/1000Base-T adaptive RJ45 ports. Ports 1-8 support the IEEE 802.3af/at PoE standard and single-port PoE power up to 30W. As a PoE power supply device, it can automatically detect and identify the power-receiving devices that meet the standards and power them through the network cable. It can power wireless APs, IP cameras, industrial sensors, and other PoE terminal devices through the network cable to meet the network environment that requires a high-density PoE power supply. It is ideal for industrial applications such as intelligent transportation, rail transportation, the power industry, mining, petroleum, shipping, metallurgy, and green energy to build economical, efficient, stable, and reliable communication networks. Plug-and-play, simple, and convenient to use.

FEATURE

■ Gigabit wire-speed forwarding

- ◇ Support non-blocking wire-speed forwarding.

- ◇ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.
- ◇ Support Gigabit RJ45 ports, high-speed and high-bandwidth connection to meet the needs of various scenarios.

■ Smart PoE power supply

- ◇ Complies with IEEE 802.3af/at PoE standard, automatically identifies PoE devices for power supply, and does not damage non-PoE devices.
- ◇ 8*10/100/1000Base-T RJ45 ports can support PoE power supply to meet the needs of PoE power supply in various scenarios in the industrial field.
- ◇ Priority system for PoE ports 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

- ◇ CE, FCC, RoHS.
- ◇ The user-friendly panel can show the device status through the LED indicators for PWR, Link, and PoE.
- ◇ Low power consumption, aluminum alloy housing, and excellent heat dissipation to ensure stable operation of the switch.

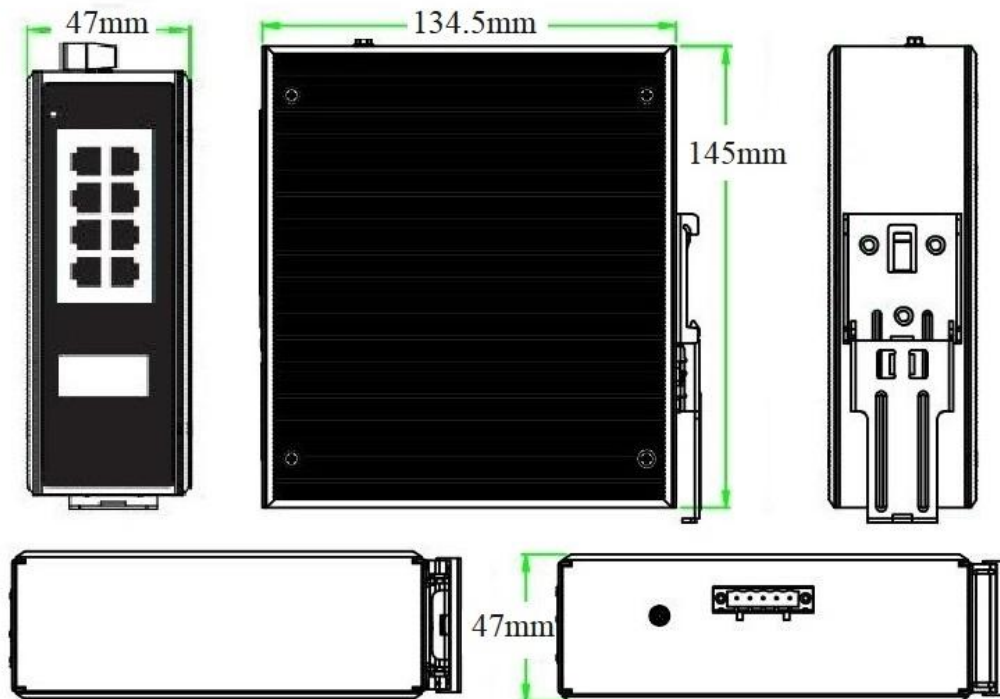
TECHNICAL SPECIFICATION

Model	ONV-IPS33108P
Interface Characteristics	
Fixed Port	8*10/100/1000Base-T PoE ports (Data/ Power) 2*10/100/1000Base-T uplink RJ45 ports (Data) 2 set V+, V- redundant DC power port (5P industrial Phoenix terminal)
Ethernet Port	Ports 1-10 support 10/100/1000Base-T(X) auto-sensing, full/ half duplex MDI/ MDI-X self-adaption
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP (≤100 meters) 100BASE-TX: Cat5 or later UTP (≤100 meters)

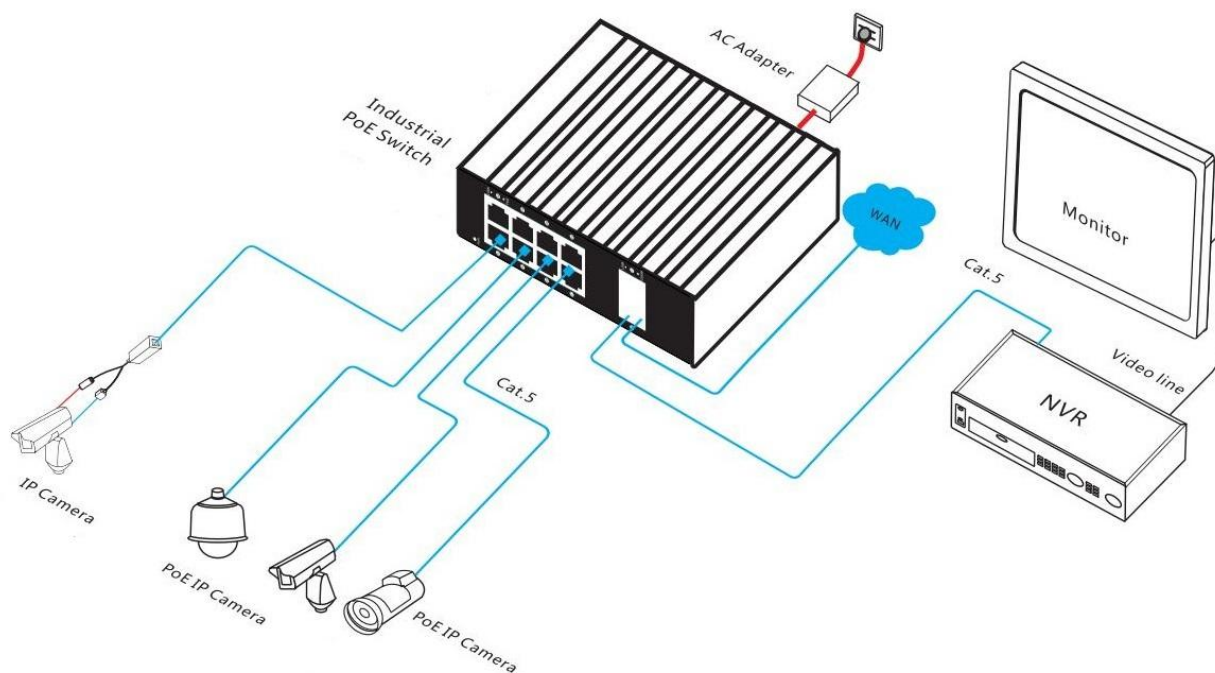
	1000BASE-T: Cat5e or later UTP (≤100 meters)
Chip Parameter	
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x
Forwarding Mode	Store and forward (Full wire speed)
Switching Capacity	20Gbps (non-blocking)
Forwarding Rate@64byte	14.88Mpps
MAC	2K
Buffer Memory	2M
Jumbo Frame	9.2K
LED Indicator	Power: PWR (Green), Network: Link (Yellow), PoE: PoE (Green), Rate: 1000M (Green)
PoE& Power Supply	
PoE Port	Port 1-8
Power Supply Pin	1/2 (+) 3/6 (-)
Max Single-port PoE Power	30W, IEEE802.3af/at
Power Consumption	Standby< 8W, full load af<120W, at<240W
Input Voltage/ Interface	DC44-57V, 5P industrial Phoenix terminal supports anti-reverse protection.
Power Supply	No, optional 48V/120W or 48V/240W 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)	145*134.5*47mm
Net /Gross Weight	0.9kg / 1.1kg
Installation	Desktop, 35mm DIN Rail
Certification& Warranty	
Lightning Protection	IEC61000-4-3 (RS):10V/m (80~1000MHz) FCC Part 15/CISPR22 (EN55022): Class A IEC61000-6-2 (Common Industrial Standard)

	IEC61000-4-9 (Pulsed magnet field): 1000A/m IEC61000-4-10 (Damped oscillation): 30A/m 1MHz IEC61000-4-12/18 (Shockwave): CM2.5kV, DM1kV Protection level: IP40, Lightning protection: 6KV 8/20us IEC61000-4-4(EFT): Power cable: ± 4kV, data cable: ± 2kV IEC61000-4-16 (Common-mode transmission): 30V, 300V, 1s IEC61000-4-2 (ESD): ± 8kV contact discharge, ± 15kV air discharge IEC61000-4-6 (Radio frequency transmission): 10V(150kHz~80MHz) IEC61000-4-8 (Power frequency magnetic field): 100A/m, 1000A/m, 1s-3s IEC61000-4-5 (Surge): Power cable: CM± 4kV/ DM± 2kV, data cable: ± 4kV
Mechanical Properties	IEC60068-2-6 (Anti Vibration), IEC60068-2-27 (Anti Shock), IEC60068-2-32 (Free Fall)
Certification	CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class A, RoHS
Warranty	5 years, lifelong maintenance.

DIMENSION



APPLICATION



ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS33108P	Industrial PoE switch with 10*10/100/1000M RJ45 ports. Ports 1-8 support the IEEE 802.3af/at PoE standard. It supports dual DC redundant power input (Phoenix terminal connection) and DIN rail mounting.	120W/240W

Note: The power supply is not included and needs to be purchased.

PACKING LIST

	Content	Qty	Unit
Packing List	10-port Gigabit industrial PoE switch	1	PC
	User Guide	1	PC
	Warranty Card and Certificate of Conformity	1	PC

POWER SUPPLY

Product	Model	Description	Unit
130W Desktop power adapter	GWS-AP130-52	Desktop 130W single-set output power adapter Input Voltage: AC100V~240V 50-60Hz, 2.3A Output Voltage: DC52V, 2.5A Operation Temperature: -20℃ to +65℃	PC
250W Desktop power adapter	GWS-AP250-52	Desktop 250W single-set output power adapter Input Voltage: AC100V~240V 50-60Hz, 3.5A Output Voltage: DC52V, 4.8A Operation Temperature: -20℃ to +65℃	PC
120W DIN Rail industrial power supply	GWS-DP120-48	DIN Rail 120W single-set output power supply Input Voltage: AC100V~240V 50-60Hz, 2.3A Output Voltage: DC48V, 2.5A Operation Temperature: -40℃ to +70℃	PC
240W DIN Rail industrial power supply	GWS-DP240-48	DIN Rail 240W single-set output power supply Input Voltage: AC100V~240V 50-60Hz, 3.0A Output Voltage: DC48V, 5.0A Operation Temperature: -40℃ to +70℃	PC

RELATED PRODUCT

Model	Description
ONV-IPS33064P	Industrial PoE switch with 6*10/100/1000M RJ45 ports. Ports 1-4 support the IEEE 802.3af/at PoE standard. It supports dual DC redundant power input (Phoenix terminal connection) and DIN rail mounting.
ONV-IPS33064PFG	Industrial PoE fiber switch with 5*10/100/1000M RJ45 ports and 1*1000M uplink SFP fiber port. Ports 1-4 support the IEEE 802.3af/at PoE standard. It supports dual DC redundant power input (Phoenix terminal connection) and

	DIN rail mounting.
ONV-IPS33064PF	Industrial PoE fiber switch with 4*10/100/1000M RJ45 ports and 2*1000M uplink SFP fiber ports. Ports 1-4 support the IEEE 802.3af/at PoE standard. It supports dual DC redundant power input (Phoenix terminal connection) and DIN rail mounting.
ONV-IPS33108PF	Industrial PoE fiber switch with 8*10/100/1000M RJ45 ports and 2*1000M uplink SFP fiber ports. Ports 1-8 support the IEEE 802.3af/at PoE standard. It supports dual DC redundant power input (Phoenix terminal connection) and DIN rail mounting.
ONV-IPS33128PF	Industrial PoE fiber switch with 10*10/100/1000M RJ45 ports and 2*1000M uplink SFP fiber ports. Ports 1-8 support the IEEE 802.3af/at PoE standard. It supports 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

Email: onv@onv.com.cn

Skype: onv@onv.com.cn

WeChat ID: ONV-PoE-IoT

Website: www.onvcom.com, www.onvswitch.com

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

Factory Address: Building B3, Galaxy Artificial Intelligence Industrial Park, No. 333, Zhongkai 6th Road, Chenjiang Street, Zhongkai High-tech Zone, Huizhou

