

Product Datasheet

10-port Full Gigabit Industrial PoE Switch

(ONV-IPS33108P)



OVERVIEW

The ONV-IPS33108P is a full gigabit industrial PoE switch independently developed by ONV. It has 10*10/100/1000Base-T RJ45 ports. Port 1-8 can support IEEE802.3af/at PoE standard. single-port PoE power up to 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 device such as wireless AP, IP camera, industrial sensor through the network cable, and meet the network environment that needs high-density PoE power supply. It is suitable for intelligent transportation, rail transit, power industry, mining, petroleum, sea transportation. Industrial scenes such as metallurgy and green energy construction to form a cost-effective, stable and reliable communication network. Unmanaged mode, plug, and play, no configuration, easy 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 full gigabit Ethernet ports, high speed and high bandwidth connection to meet the needs of various scenarios.

■ Intelligent PoE power supply

- ◇ IEEE802.3af/at PoE standard, 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.
- ◇ 10*10/100/1000Base-T RJ45 ports, meeting the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.

■ Stable and reliable

- ◇ CCC, CE, FCC, RoHS.
- ◇ Low power consumption, No fan, aluminum casing.
- ◇ The user-friendly panel can show the device status through the LED indicator of PWR, Link, PoE.

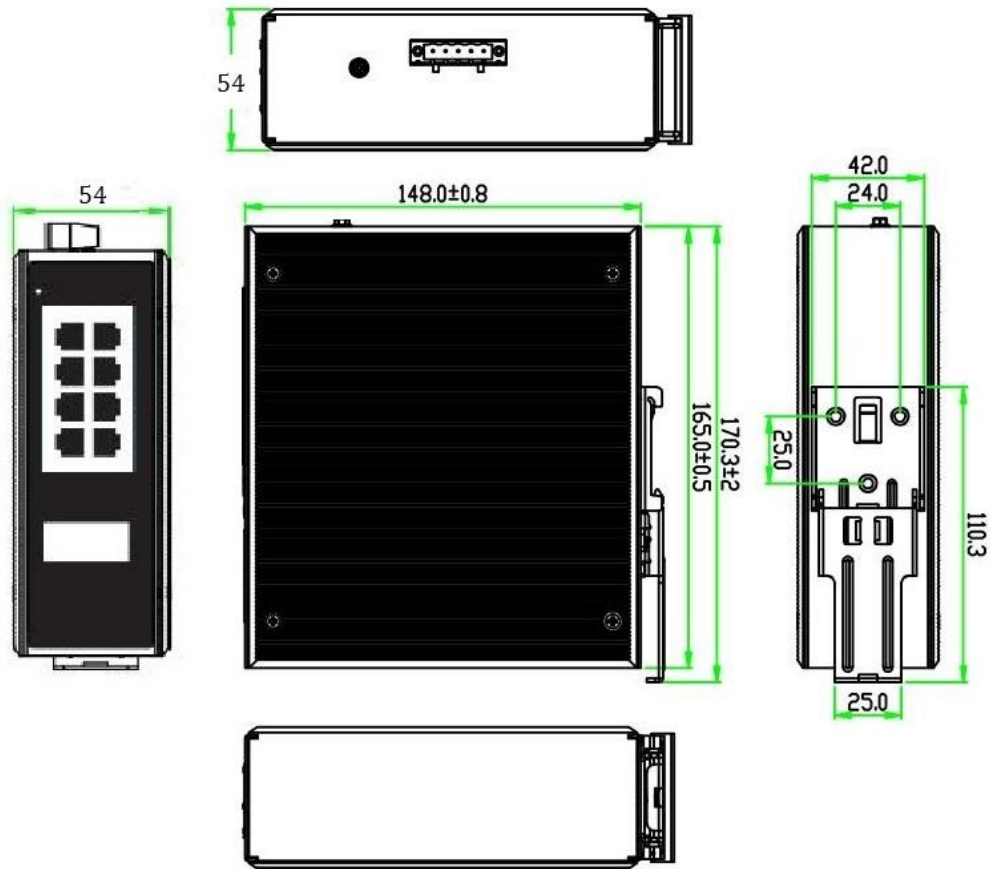
TECHNICAL SPECIFICATION

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 of V+, V- redundant DC power interface (5P Phoenix terminal)

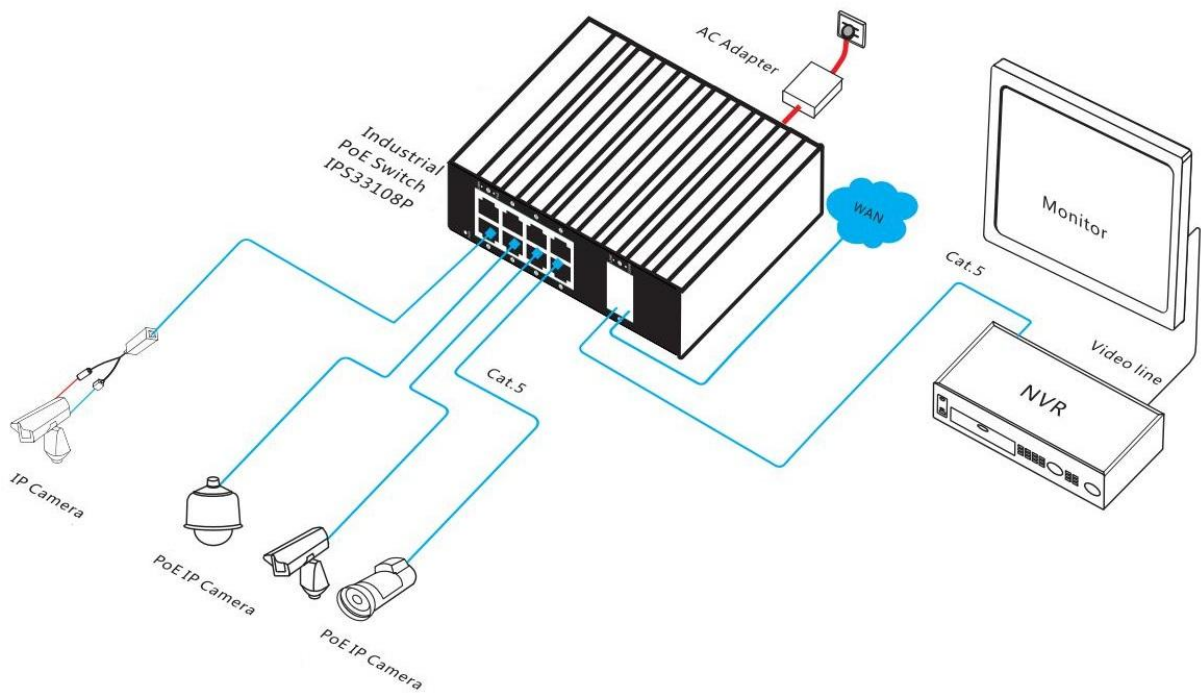
Ethernet Port	Port 1-10 support 10/100/1000Base-T(X) auto-sensing, full/half duplex MDI/MDI-X self-adaption
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meters) 100BASE-TX: Cat5 or later UTP(≤100 meters) 1000BASE-T: Cat5e or later UTP(≤100 meters)
Chip Parameter	
Network Protocol	IEEE802.3 10BASE-T, 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
Forwarding Rate@64byte	14.88Mpps
MAC	8K
Buffer Memory	2M
Jumbo Frame	9.2K
LED Indicator	Power: PWR (Green), Network: Link (Yellow), POE: PoE (Green), Speed: 1000M (Green)
PoE & Power Supply	
PoE Port	Port 1 to 8, IEEE802.3af/at
Power Supply Pin	1/2 (+) 3/6 (-)
Max Power Per Port	30W
Power Consumption	Standby<8W, Full load af<120W, at<240W
Power Supply	No, optional 48V/120W or 48V/240W industrial power supply
Working Voltage	DC48-57V, 5P industrial Phoenix terminal, support anti-reverse protection.
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	<1.0kg / <1.2kg
Installation	Desktop, 35mm DIN rail
Certification & Warranty	
Lightning Protection	<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 B</p> <p>IEC61000-6-2(Common Industrial Standard)</p>
Mechanical Properties	<p>IEC60068-2-32 (free fall)</p> <p>IEC60068-2-27 (anti shock)</p> <p>IEC60068-2-6 (anti vibration)</p>
Certification	<p>CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B</p> <p>RoHS</p>
Warranty	5 years, lifelong maintenance.

DIMENSION



APPLICATION



ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS33108P	Unmanaged industrial PoE switch with 10*10/100/1000M RJ45 ports. Port 1-8 can support IEEE802.3af/at PoE standard. It can support dual DC power input and DIN rail mounting.	120W/240W

Note: Industrial PoE switch do not include power supply by default.

PACKING LIST

	Content	Qty	Unit
Packing List	10-port full gigabit industrial PoE switch	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

POWER SUPPLY

Product	Model	Description	Unit
130W Desktop Power Adapter	GWS-AP130-52	Desktop 130W single set of output power adapter Input Voltage: AC100V~240V 50-60Hz, 2.3A Output Voltage: DC52V 2.5A Operation Temperature: -20°C to +65°C	PC
250W Desktop Power Adapter	GWS-AP250-52	Desktop 250W single set of output power adapter Input Voltage: AC100V~240V 50-60Hz, 4.1A Output Voltage: DC 52V 4.8A	PC

		Operation Temperature: -20°C to +65°C	
120W DIN Rail Industrial Power Supply	GWS-DP120-48	Din Rail 120W single set of output power supply Input Voltage: AC 100V~240V 50-60Hz, 1.5A Output Voltage: DC48V 2.5A Operation Temperature: -40°C to +70°C	PC
240W DIN Rail Industrial Power Supply	GWS-DP240-48	Din Rail 240W single set of output power supply Input Voltage: AC100V~240V 50-60Hz, 3.0A Output Voltage: DC48V 5A Operation Temperature: -40°C to +70°C	PC

RELATED PRODUCT

Model	Description
ONV-IPS33064P	Unmanaged industrial PoE switch with 6*10/100/1000M RJ45 ports, Port 1-4 can support IEEE802.3af/at PoE standard. It can support dual DC power input and DIN rail mounting.
ONV-IPS33064PFG	Unmanaged industrial PoE fiber switch with 5*10/100/1000M RJ45 ports and 1*1000M SFP port. Port 1-4 can support IEEE802.3af/at PoE standard. It can support dual DC power input and DIN rail mounting.
ONV-IPS33064PF	Unmanaged industrial PoE switch with 4*10/100/1000M RJ45 ports and 2*1000M SFP ports. Port 1-4 can support IEEE802.3af/at PoE standard. It can support dual DC power input and DIN rail mounting.
ONV-IPS33108PF	Unmanaged industrial PoE fiber switch with 8*10/100/1000M RJ45 ports and 2*1000M SFP ports. Port 1-8 can support IEEE802.3af/at PoE standard. It can support dual DC power input and DIN rail mounting.
ONV-IPS33128PF	Unmanaged industrial PoE fiber switch with 10*10/100/1000M RJ45 ports and 2*1000M SFP ports. Port 1-8 can support IEEE802.3af/at PoE standard. It can support dual DC power input and DIN rail mounting.

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