Product Datasheet

10-port Gigabit Industrial Ethernet Switch

(ONV-IPS33108)

OVERVIEW

The ONV-IPS33108 is a gigabit industrial Ethernet switch independently developed by ONV. It is designed to meet industrial fields and systems and can operate stably for a long time in harsh environments. It has 10*10/100/1000M adaptive RJ45 ports. Each port can support full line-rate forwarding.

The ONV-IPS33108 has excellent industrial field environment adaptability (including mechanical stability, climate adaptability, electromagnetic environment adaptability, etc.). It is suitable for industrial scenes such as intelligent transportation, rail transit, electric power, mining, metallurgy and green energy construction to form a cost-effective and stable communication network. Unmanaged model, plug and play, no configuration, easy to use.

FEATURE

■ **Gigabit wire speed forwarding**

◇ Support non-blocking wire-speed forwarding.

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◇ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.

◇ Support gigabit RJ45 port and uplink RJ45 port combination, which enables users to flexibly build networking to meet the needs of various scenarios.

■ **Stable and reliable**

◇ CCC, CE, FCC, RoHS.

◇ The user-friendly panel can show the device status through the LED indicator of PWR and Link.

◇ Low power consumption, no fan, aluminum shell, and excellent heat dissipation to ensure the stable operation of the switch.
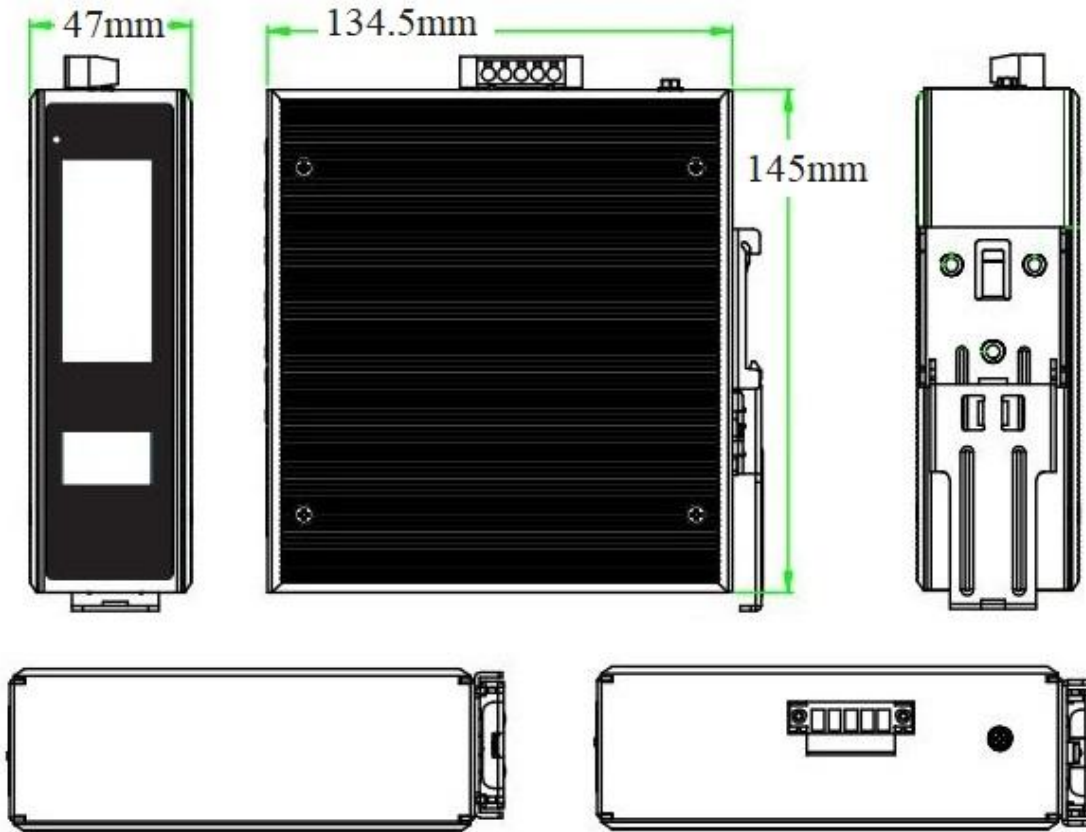
TECHNICAL SPECIFICATION

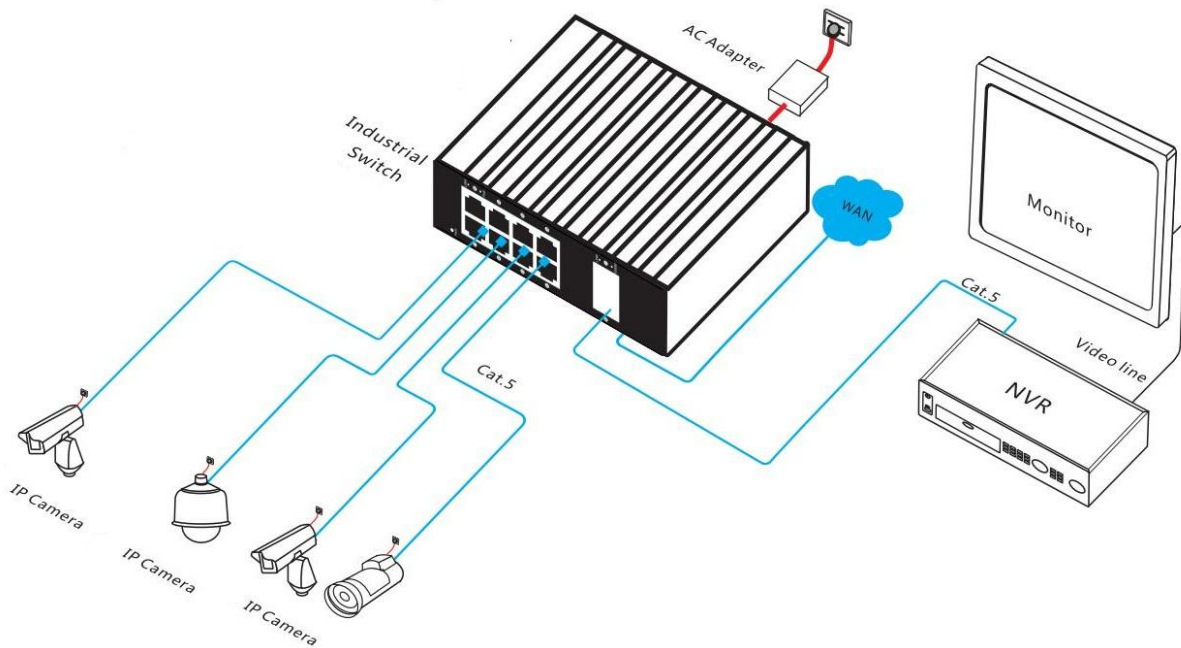| Model	ONV-IPS33108
Interface Characteristics	
Fixed Port	10*10/100/1000Base-T RJ45 ports (Data) 2 sets V+, V- redundant DC power ports (5P Phoenix terminal)
Ethernet Port	Port 1-10 support 10/100/1000Base-T(X) auto-sensing, full/ half duplex MDI/ MDI-X self-adaption
Twisted Pair Transmission	10BASE-T: 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	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3u 1000Base-T, IEEE 802.3x
Forwarding Mode	Store and Forward (Full Wire Speed)
Switching Capacity	20Gbps (non-blocking)
Forwarding Rate @64byte	14.88Mpps
MAC	8K

Buffer Memory	4M
Jumbo Frame	9.2K
LED Indicator	Power: PWR (Green), Network: Link, Link/Act (Yellow)
Power Supply	
Working Voltage	DC12-48V, 5P industrial phoenix terminal, support anti-reverse protection
Power Consumption	Standby<6W, Full load<8W
Power Supply	No, optional 24V/24W industrial power supply
Physical Parameter	
Operation TEMP/ Humidity	-40°C~+75°C, 5%~90% RH Non condensing
Storage TEMP/ Humidity	-40°C~+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	Protection level: IP40 Lightning protection: 6KV 8/20us IEC61000-4-3 (RS):10V/m (80~1000MHz) FCC Part 15/CISPR22 (EN55022): Class B 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 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)

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	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	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B, RoHS
Warranty	5 years, lifelong maintenance.

DIMENSION

APPLICATION

ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS33108	Unmanaged industrial Ethernet switch with 10*10/100/1000M RJ45 ports. It can support dual DC power input and DIN rail mounting.	24V/24W
Note: The power supply is not included and needs to be purchased.		

PACKING LIST

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

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POWER SUPPLY

Product	Model	Description	Unit
24W DIN Rail Industrial Power Supply	GWS-DP24-24	DIN Rail 24W single set of output power supply Input Voltage: AC100V~240V 50-60H, 0.35A Output Voltage: DC24V, 1.0A Operation Temperature: -40℃ to +70℃	PC

RELATED PRODUCT

Model	Description
ONV-IPS33032F	Unmanaged industrial Ethernet fiber switch with 2*10/100/1000M RJ45 ports and 1*1000M uplink SFP fiber port. It can support dual DC power input and DIN rail mounting.
ONV-IPS33042F	Unmanaged industrial Ethernet fiber switch with 2*10/100/1000M RJ45 ports and 2*1000M uplink SFP fiber ports. It can support dual DC power input and DIN rail mounting.
ONV-IPS33064F	Unmanaged industrial Ethernet fiber switch with 4*10/100/1000M RJ45 ports and 2*1000M uplink SFP fiber ports. It can support dual DC power input and DIN rail mounting.
ONV-IPS33064	Unmanaged industrial Ethernet switch with 5*10/100/1000M RJ45 ports. It can support dual DC power input and DIN rail mounting.
ONV-IPS33108F	Unmanaged industrial Ethernet fiber switch with 8*10/100/1000M RJ45 ports and 2*1000M uplink SFP fiber ports. It can support dual DC power input and DIN rail mounting.
ONV-IPS33128F	Unmanaged industrial Ethernet fiber switch with 10*10/100/1000M RJ45 ports and 2*1000M uplink SFP fiber ports. It can support dual DC power input and DIN rail mounting.

CONTACT US

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