

Product Datasheet

10-port Full Gigabit Industrial Ethernet Switch

(ONV-IPS33108)



OVERVIEW

The ONV-IPS33108 is a full 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 RJ45 ports. Each port can support full line-rate forwarding.

ONV-IPS33108 industrial Ethernet switch has excellent industrial field environment adaptability (including mechanical stability, climate adaptability, electromagnetic environment adaptability, etc.), protection level up to IP40, It can support dual redundant power supply, low power consumption and no fan cooling technology, MTBF average trouble-free working time up to 35 years, 5-year warranty. 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.

FEATURE

■ Gigabit wire speed forwarding

- ◇ All series supports "gigabit RJ45 port and dual uplink RJ45 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.

■ Port lightning protection, wide voltage input

- ◇ Contact discharge 8KV, air discharge 15KV; port lightning protection common-mode 4KV, differential mode 2KV;
- ◇ Industrial dual power input.
- ◇ Non-PoE DC INPUT: 12-48V.

■ Stable and reliable

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

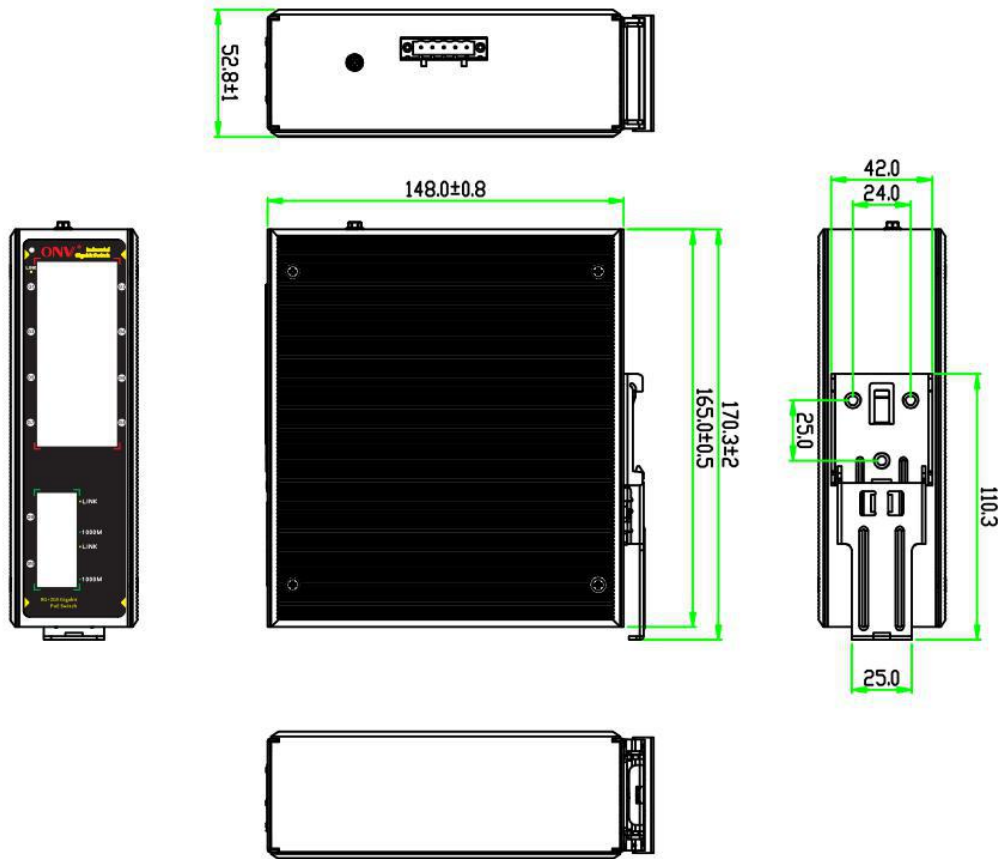
TECHNICAL SPECIFICATION

Model	ONV-IPS33064	ONV-IPS33108
Interface Characteristics		
Fixed Port	6*10/100/1000Base-T RJ45 ports (Data) 2 set of V+, V- redundant DC power ports (5P Phoenix terminal)	10*10/100/1000Base-T RJ45 ports (Data) 2 set of V+, V- redundant DC power ports (5P Phoenix terminal)

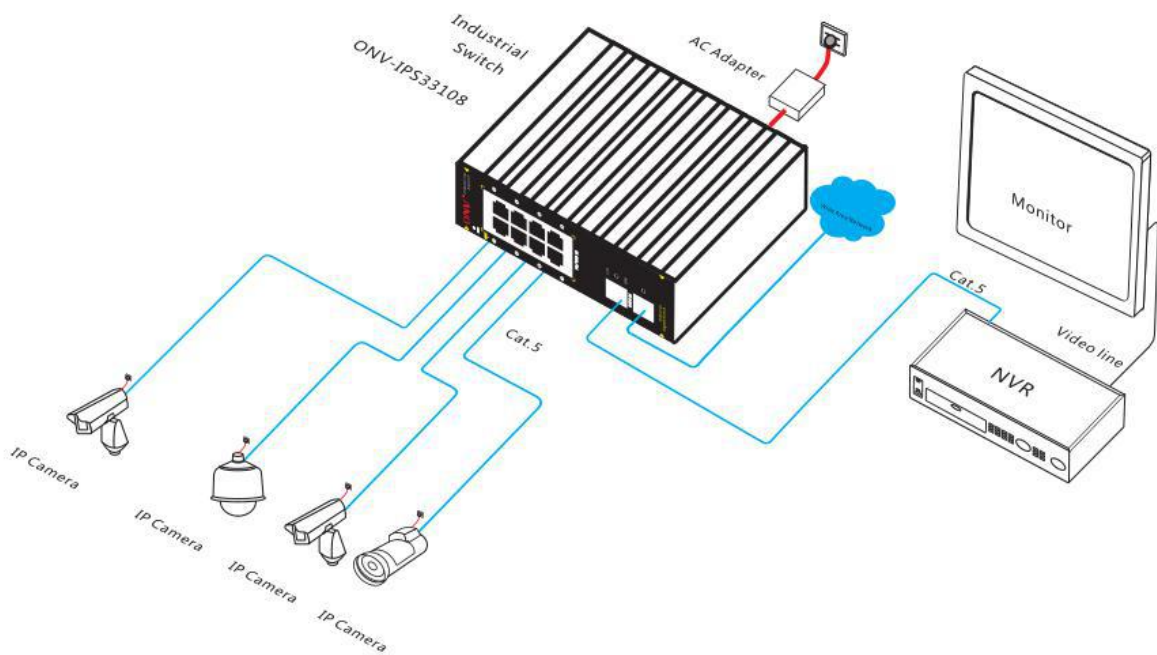
Ethernet Port	Port 1-6 support 10/100/1000Base-T(X) auto-sensing, full/half duplex MDI/MDI-X self-adaption	Port 1-10 support 10/100/1000Base-T(X) auto-sensing, full/half duplex MDI/MDI-X self-adaption
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-TX: Cat5 or later UTP(≤100 meter) 1000BASE-T: Cat5e or later UTP(≤100 meter)	
Chip Parameter		
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T IEEE802.3u 100Base-TX, IEEE802.3u 1000Base-T IEEE802.3x	
Forwarding Mode	Store and Forward(Full Wire Speed)	
Switching Capacity	1.6Gbps	
Forwarding Rate@64byte	8.93Mpps	14.88Mpps
MAC	8K	
Buffer Memory	2M	4M
Jumbo Frame	9.2K	
LED Indicator	Power: PWR (green), network: Link ,Link/Act (yellow)	
Power		
Working Voltage	12-48VDC, 5P industrial phoenix terminal, support anti-reverse protection	
Power Consumption	Standby<4W, Full load<6W	Standby<6W, Full load<8W
Power Supply	No, optional 24V/24W industrial power supply	
Physical Parameter		
Operation TEMP / Humidity	-40~+75°C;5%~90% RH Non condensing	
Storage TEMP /	-40~+85°C;5%~95% RH Non condensing	

Humidity		
Dimension (L*W*H)	119*100*30mm	145*134.5*47.5mm
Net /Gross Weight	<0.6 kg / <0.8kg	<1.0kg / <1.2kg
Installation	Desktop, DIN rail	
Certification & Warranty		
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>	
Mechanical Properties	IEC60068-2-6 (anti vibration), IEC60068-2-27 (anti shock)	
	IEC60068-2-32 (free fall)	
Certification	CCC;CE mark, commercial; CE/LVD EN60950;FCC Part 15 Class B; RoHS	
Warranty	5 years, lifelong maintenance.	

DIMENSION



APPLICATION



ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS33064	Unmanaged industrial Ethernet switch with 6*10/100/1000M RJ45 ports. It can support dual DC redundant power input and DIN rail mounting.	24V/24W
ONV-IPS33108	Unmanaged industrial Ethernet switch with 10*10/100/1000M RJ45 ports. It can support dual DC redundant power input and DIN rail mounting.	24V/24W

Note: Industrial Ethernet switch does not match the power supply.

PACKING LIST

	CONTENT	QTY	UNIT
PACKING LIST	10-port full gigabit industrial Ethernet switch	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

POWER SUPPLY SELECTION TABLE

Product	Model	Description	Unit
24W DIN Rail Industrial Power Supply	GWS-DP24-24	Din Rail type 24W single set of output power supply; Input Voltage:AC 100V~240V 50-60H,0.35A Output Voltage:DC 24V 1.0A Operation Temperature: -40℃—+70℃	PC

RELATED PRODUCT

Model	Description
ONV-IPS33021F	Unmanaged industrial Ethernet fiber switch with 1*10/100/1000M RJ45 port and 1*1000M SFP slot port. It can support dual DC redundant power input and DIN rail mounting.
ONV-IPS33032F	Unmanaged industrial Ethernet fiber switch with 2*10/100/1000M RJ45 ports and 1*1000M SFP slot port. It can support dual DC redundant power input and DIN rail mounting.
ONV-IPS33042F	Unmanaged industrial Ethernet fiber switch with 2*10/100/1000M RJ45 ports and 2*1000M SFP slot ports. It can support dual DC redundant power input and DIN rail mounting.
ONV-IPS33064FG	Unmanaged industrial Ethernet fiber switch with 5*10/100/1000M RJ45 ports and 1*1000M SFP slot port. It can support dual DC redundant power input and DIN rail mounting.
ONV-IPS33064F	Unmanaged industrial Ethernet fiber switch with 4*10/100/1000M

	RJ45 ports and 2*1000M SFP slot ports. It can support dual DC redundant power input and DIN rail mounting.
ONV-IPS33108F	Unmanaged industrial Ethernet fiber switch with 8*10/100/1000M RJ45 ports and 2*1000M SFP slot ports. It can support dual DC redundant power input and DIN rail mounting.
ONV-IPS33128F	Unmanaged industrial Ethernet fiber switch with 10*10/100/1000M RJ45 ports and 2*1000M SFP slot ports. It can support dual DC redundant power input and DIN rail mounting.

CONTACT US



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