

Product Datasheet

5-port 10/100M Industrial Ethernet Switch

(ONV-IPS1005)



OVERVIEW

The ONV-IPS1005 is a 10/100M 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 5*10/100M RJ45 ports. Each port can support full line-rate forwarding.

ONV-IPS1005 industrial Ethernet switch has excellent industrial field environment adaptability (include mechanical stability, climate adaptability, electromagnetic environment adaptability, etc.), and protection level up to IP30. It can support dual power supply. low power consumption and no fan, 5 years warranty. Unmanaged mode, plug and play, no configuration, easy to use. 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

- ◇ Support non-blocking wire-speed forwarding.
- ◇ Support full-duplex based on IEEE 802.3x and half-duplex based on Backpressure.
- ◇ Support 10/100M Ethernet port, which enables users to flexibly build networking to meet the needs of various scenarios.

■ Stable and reliable

- ◇ CCC, CE, FCC, and RoHS.
- ◇ The user-friendly panel can show the device status through the LED indicator of PWR, L/A.
- ◇ Low power consumption, no fan, aluminum shell, excellent heat dissipation to ensure the stable operation of the switch.

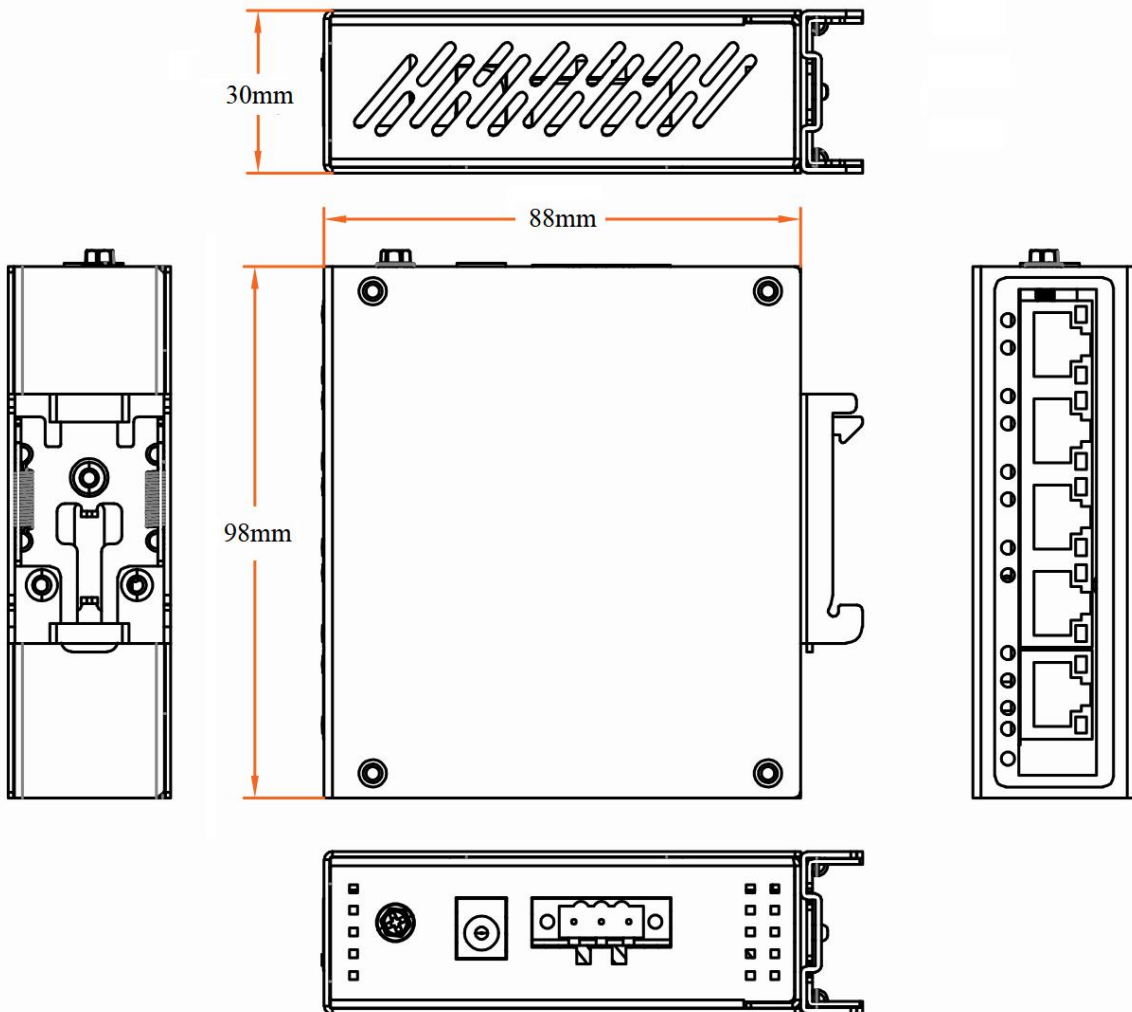
TECHNICAL SPECIFICATION

Model	ONV-IPS1005
Interface Characteristics	
Fixed Port	1*DC5521 power socket 5*10/100Base-TX RJ45 ports (Data) 2 set of V+, V- redundant DC power ports (3Pin Phoenix terminal)
Ethernet Port	Port 1-5 support 10/100Base-TX auto-sensing, full/ half duplex MDI/ MDI-X self-adaption
Twisted Pair	10BASE-T: Cat3,4,5 UTP (≤100 meters)
Transmission	100BASE-TX: Cat5 or later UTP (≤100 meters)
Chip Parameter	
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3x IEEE802.3u 100Base-TX, IEEE802.3i 10Base-T
Forwarding Mode	Store and Forward (Full Wire Speed)
Switching Capacity	1.0Gbps (non-blocking)




Forwarding Rate@64byte	0.744Mpps
MAC	2K
Buffer Memory	512KB
Jumbo Frame	2048B
LED Indicator	Power: PWR (Green), Network: Link (Yellow)
Power Supply	
Working Voltage	DC12-48V, 3P industrial phoenix terminal, support anti-reverse protection.
Power Consumption	Standby<4W, Full load<5W
Power Supply	No, optional 24W/24V industrial power supply
Physical Parameter	
Operation TEMP/ Humidity	-40~+75°C, 5%~90% RH Non condensing
Storage TEMP/ Humidity	-40~+85°C, 5%~95% RH Non condensing
Dimension (L*W*H)	98*88*30mm
Net /Gross Weight	<0.2 kg / <0.3 kg
Installation	Desktop, DIN rail
Certification & Warranty	
Lightning Protection	<p>Protection level: IP30</p> <p>Lightning protection: 6KV 8/20us</p> <p>IEC61000-4-3 (RS):10V/m (80~1000MHz)</p> <p>FCC Part 15/CISPR22 (EN55022): Class B</p> <p>IEC61000-6-2 (Common Industrial Standard)</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>IEC61000-4-4(EFT): Power cable:±4kV, Data cable: ±2kV</p> <p>IEC61000-4-16 (Common-mode transmission): 30V, 300V, 1s</p>

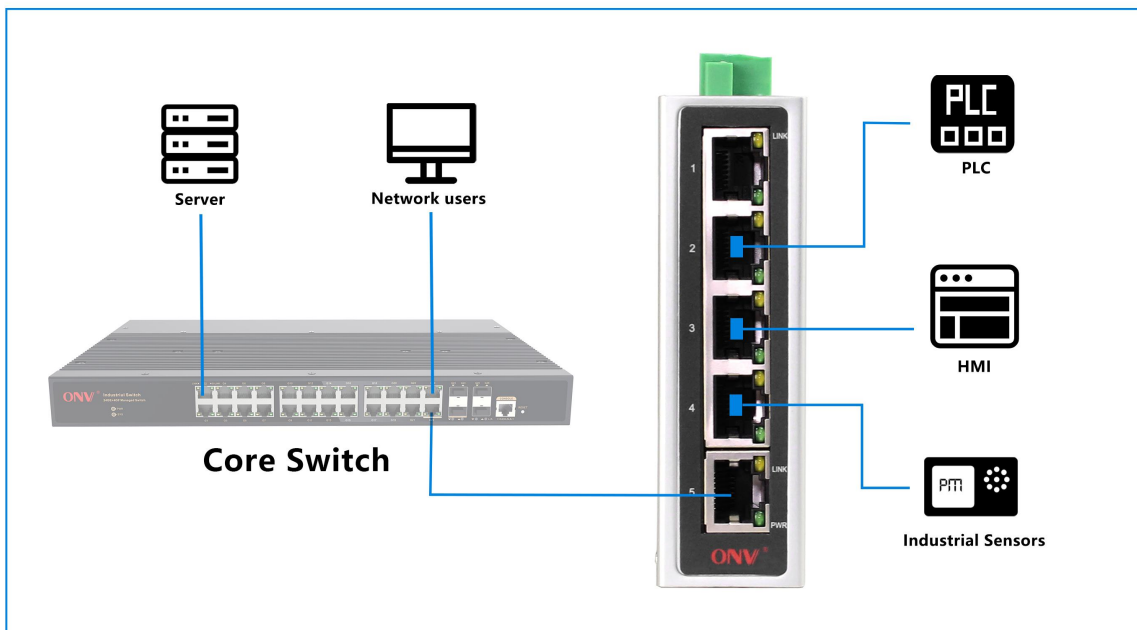
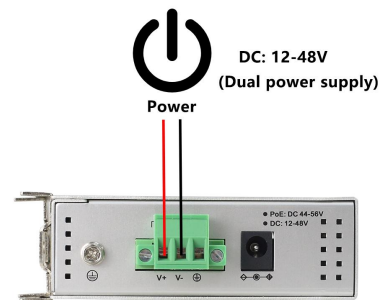
	<p>IEC61000-4-2 (ESD): $\pm 8\text{kV}$ contact discharge, $\pm 15\text{kV}$ air discharge</p> <p>IEC61000-4-6 (Radio frequency transmission): 10V($150\text{kHz}\sim 80\text{MHz}$)</p> <p>IEC61000-4-5 (Surge): Power cable: $\text{CM}\pm 4\text{kV}$/ $\text{DM}\pm 2\text{kV}$, Data cable: $\pm 4\text{kV}$</p> <p>IEC61000-4-8 (Power frequency magnetic field): 100A/m, 1000A/m, 1s to 3s</p>
Mechanical Properties	IEC60068-2-6 (Anti vibration), IEC60068-2-32 (Free fall), IEC60068-2-27 (Anti shock)
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B, RoHS
Warranty	5 years, lifelong maintenance.

DIMENSION



APPLICATION

-  **Plug and play**
-  **Wide temperature range**
-  **DIN Rail installation**



ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS1005	Unmanaged industrial Ethernet switch with 5*10/100M RJ45 ports. It can support dual DC redundant power input and DIN rail mounting.	24W/24V

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

PACKING LIST

	Content	Qty	Unit
Packing List	5-port 10/100M industrial Ethernet switch	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

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 50-60Hz, 0.35A Output Voltage: DC24V 1.0A Operation Temperature: -40°C to +70°C	PC

CONTACT US

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