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. The ONV-IPS1005 has excellent industrial field environment adaptability (including mechanical stability, climate adaptability, electromagnetic environment adaptability, etc.). The protection level is IP30 and 5-year warranty. It is suitable for industrial scenes such as intelligent transportation, rail transit, power industry, mining, petroleum, shipping, metallurgy, and green energy construction to form a cost-effective, stable, and reliable communication network. Unmanaged model, plug and play, no configuration, easy to use.



FEATURE

■ 10/100M access, Fast Ethernet

- ♦ Support non-blocking wire-speed forwarding.
- ♦ Support full-duplex based on IEEE 802.3x and half-duplex based on Backpressure.
- Support 10/100M RJ45port, which enables users to flexibly build networking to meet the needs of various scenarios.

Stable and reliable

- \diamond 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 alloy housing, and excellent heat dissipation to ensure the stable operation of the switch.

TECHNICAL SPECIFICATION

Model	ONV-IPS1005			
Interface Characteristics				
	1*DC5521 power socket			
Fixed Port	5*10/100Base-TX RJ45 ports (Data)			
	2 sets V+, V- redundant DC power port (3P Phoenix terminal)			
Ethernet Port	Port 1-5 can 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	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX,			
	IEEE 802.3x			
Forwarding Mode	Store and Forward (Full Wire Speed)			



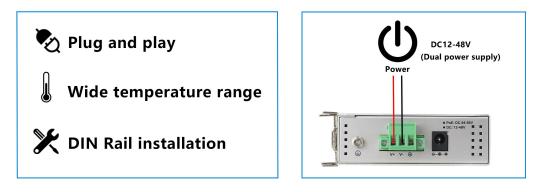
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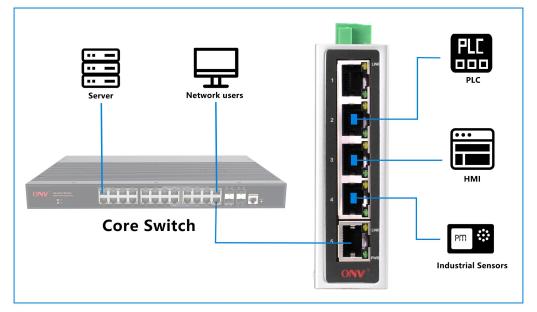
Flowarding Rate (2040yle)Prediction ResultRACKBuffer MemoryS12KJumbo Frame2048bytesLou IndicatorPower: PWR (Green), Network: Link 1-5 (Yellow)Power SuppiyStandby-SWI (Standby, Standby, Stand	Switching Capacity	1.0Gbps (non-blocking)			
@64byteControl Control Contro	Forwarding Rate	0.744Mpps			
Buffer Memory512KBuffer Memory512KJumbo Frame2048bytesLED IndicatorPower: PWR (Green), Network: Link 1-5 (Yellow)Power SupplyStandby<3W, Full Ioad<5W	@64byte	0.744Mpps			
Jumbo Frame2048bytesJumbo FramePower: PWR (Green), Network: Link 1-5 (Yellow)Power SupplyFower SupplyPower ConsumptionStandby<3W, Full load<5W	MAC	2К			
LED IndicatorPower: PWR (Green), Network: Link 1-5 (Yellow)Power SupplyPower ConsumptionStandby<3W, Full Ioad<5W	Buffer Memory	512K			
Power SupplyPower ConsumptionStandby<3W, Full load<5W	Jumbo Frame	2048bytes			
Power ConsumptionStandby<3W, Full load<5WWorking VoltageDC12-48V, 3P industrial phoenix terminal, anti-reverse protection.Power SupplyNo, optional 12V/24W or 24V/24W industrial power supply Physical Parameter Operation Temp/ Humidity $alo +75^{\circ}C, 5\% - 90\%$ RH Non condensing $alo +85^{\circ}C, 5\% - 95\%$ RH Non condensingDimension (L*W*H)98*88*30mmNet /Gross Weight0.25kg/ 0.35kgInstallationDesktop, 35mm DIN RailCertification & WarreyProtection level: IP30 Lightning protection: 6KV 8/20us IEC61000-4-3 (RS):10V/m (80~1000MHz) FCC Part 15/CISPR22 (EN55022): Class BLightning ProtectionIEC61000-6-2 (Common Industrial Standard)	LED Indicator	Power: PWR (Green), Network: Link 1-5 (Yellow)			
Norking VoltageDC12-48V, 3P industrial phoenix terminal, anti-reverse protection.Power SupplyNo. optional 12V/24W or 24V/24W industrial power supplyPhysical ParameterOperation Temp/ Humidity-40~+75°C, 5%~90% RH Non condensing -40~+85°C, 5%~95% RH Non condensing -40~+85°C, 5%~95% RH Non condensing HumidityStorage Temp/ Humidity-40~+85°C, 5%~95% RH Non condensing -40~+85°C, 5%~95% RH Non condensingNension (L*W*H)88*830mmNet /Gross Weight0.25kg/ 0.35kgInstallationDesktop, 35mm DIN RailCertification & Warrent (Endon Level: IP30) - Lightning protection: 6KV 8/20us - Ec61000-4-3 (RS):10V/m (80~1000MHz) - EC6 Part 15/CISPR22 (EN55022): Class BLightning ProtectionEC61000-6-2 (Common Industrial Standard)	Power Supply				
Power SupplyNo, optional 12V/24W or 24V/24W industrial power supplyPhysical ParameterOperation Temp/ Humidity-40~+75°C, 5%~90% RH Non condensingStorage Temp/ Humidity-40~+85°C, 5%~95% RH Non condensingOimension (L*W*H)98*88*30mmNet /Gross Weight0.25kg/ 0.35kgInstallationDesktop, 35mm DIN RailCertification & WarreyInstallationProtection level: IP30Lightning protection: 6KV 8/20usIEC61000-4-3 (RS):10V/m (80~1000MHz)FCC Part 15/CISPR22 (EN55022): Class BLightning Protection	Power Consumption	Standby<3W, Full load<5W			
Physical ParameterOperation Temp/ Humidity+0~+75°C, 5%~90% RH Non condensing +0~+85°C, 5%~95% RH Non condensing +0~+85°C, 5%~95% RH Non condensingStorage Temp/ Humidity+0~+85°C, 5%~95% RH Non condensing +0~+85°C, 5%~95% RH Non condensingDimension (L*W*H)98*88*30mmNet /Gross Weight0.25kg/ 0.35kgInstallationDesktop, 35mm DIN RailCertification & WaterProtection level: IP30 Lightning protection: 6KV 8/20us IEC61000-4-3 (RS):10V/m (80~1000MHz) FCC Part 15/CISPR22 (EN55022): Class BLightning ProtectionEC61000-6-2 (Common Industrial Standard)	Working Voltage	DC12-48V, 3P industrial phoenix terminal, anti-reverse protection.			
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HumidityImage: Constraint of the second of the	Storage Temp/	-40~+85°C 5%~95% RH Non condensing			
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FCC Part 15/CISPR22 (EN55022): Class BLightning ProtectionIEC61000-6-2 (Common Industrial Standard)		Lightning protection: 6KV 8/20us			
Lightning Protection IEC61000-6-2 (Common Industrial Standard)		IEC61000-4-3 (RS):10V/m (80~1000MHz)			
	Lightning Protection	FCC Part 15/CISPR22 (EN55022): Class B			
IEC61000-4-9 (Pulsed magnet field): 1000A/m		IEC61000-6-2 (Common Industrial Standard)			
		IEC61000-4-9 (Pulsed magnet field): 1000A/m			
IEC61000-4-10 (Damped oscillation): 30A/m 1MHz		IEC61000-4-10 (Damped oscillation): 30A/m 1MHz			
IEC61000-4-12/18 (Shockwave): CM2.5kV, DM1kV		IEC61000-4-12/18 (Shockwave): CM2.5kV, DM1kV			
IEC61000-4-4(EFT): Power cable: ±4kV, data cable: ±2kV		IEC61000-4-4(EFT): Power cable: ±4kV, data cable: ±2kV			

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	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	IEC60068-2-6 (Anti Vibration), IEC60068-2-32 (Free Fall), IEC60068-2-27
Properties	(Anti Shock)
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B,
	RoHS
Warranty	5 years, lifelong maintenance.

APPLICATION

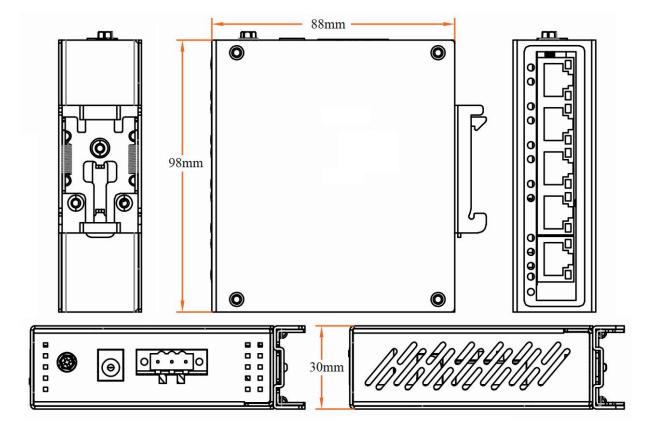






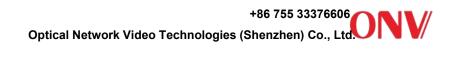
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DIMENSION



ORDERING INFORMATION

Model	Description	Recommended	
Woder	Description	Power Supply	
	Unmanaged industrial Ethernet switch with		
ONV-IPS1005	5*10/100M RJ45 ports. It can support DC redundant	24W	
	power supply input and DIN Rail mounting.		
Note: The power supply is not included and needs to be purchased.			



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PACKING LIST

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

POWER SUPPLY

Product	Model	Description	Unit
24W DIN Rail Industrial Power Supply	GWS-DP24-12	DIN Rail 24W single set of output power supply Input Voltage: AC100V~240V 50-60H, 0.35A Output Voltage: DC12V, 2.0A Operation Temperature: -40°C to +70°C	PC
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°C to +70°C	PC

CONTACT US

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