

Product Datasheet

3-port Full Gigabit Industrial Ethernet Fiber Switch

(ONV-IPS3032F)



OVERVIEW

The ONV-IPS3032F is a full gigabit industrial Ethernet fiber switch independently developed by ONV. It has 2*10/100/1000Base-T RJ45 ports and 1*1000Base-X uplink SC single-mode dual fiber optical module (optional single-mode single fiber optical module). Each port can support full line-rate forwarding.

The ONV-IPS3032F has excellent industrial field environment adaptability (including mechanical stability, climate adaptability, electromagnetic environment adaptability, etc.). The protection level is IP30. 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 mode, plug and play, no configuration, easy to use.

FEATURE

■ Gigabit line speed access, Gigabit optical port uplink

- ◇ Support non-blocking wire-speed forwarding.
- ◇ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.
- ◇ Support Gigabit Ethernet port and Gigabit SC optical 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, Link.
- ◇ Low power consumption, no fan, aluminum shell, excellent heat dissipation to ensure the stable operation of the switch.

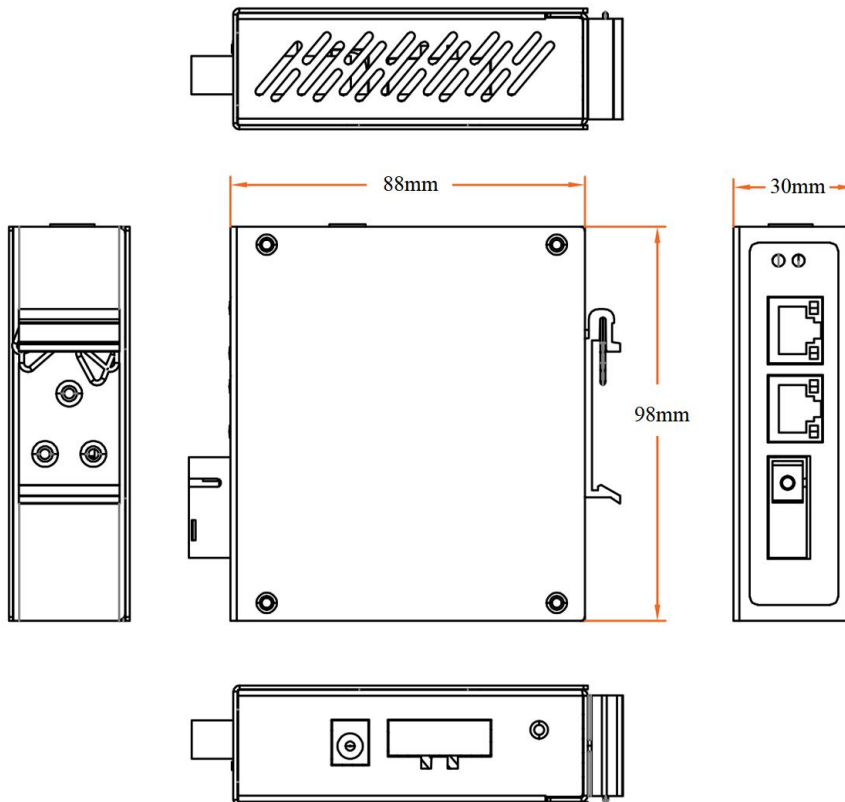
TECHNICAL SPECIFICATION

Model	ONV-IPS3032F
Interface Characteristics	
Fixed Port	1*DC5521 power socket 1*1000Base-X uplink SC port(Data) 2*10/100/1000Base-T RJ45 ports (Data) 2 set of V+, V- redundant DC power interface (3P Phoenix terminal)
Ethernet Port	Port 1 to 2 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)
Fiber Port	Gigabit single-mode dual fiber SC optical module (optional single-mode single fiber optical module)
Optical Cable/	Multi-mode: 850nm/ 0-550m




Distance	Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km.
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	10Gbps
Forwarding Rate@64byte	4.46Mpps
MAC	2K
Buffer Memory	2M
Jumbo Frame	9.2K
LED Indicator	Power: PWR (Green), Network: Link (Yellow)
Power Supply	
Power Consumption	Standby<4W, Full load<6W
Working Voltage	DC12-48V, 3P industrial Phoenix terminal, support anti-reverse protection.
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	<0.2kg / <0.3kg
Installation	Desktop, 35mm DIN rail
Certification & Warranty	
Lightning Protection	Protection level: IP30, 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)

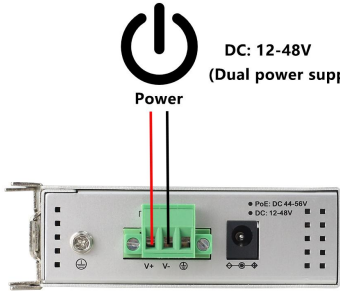
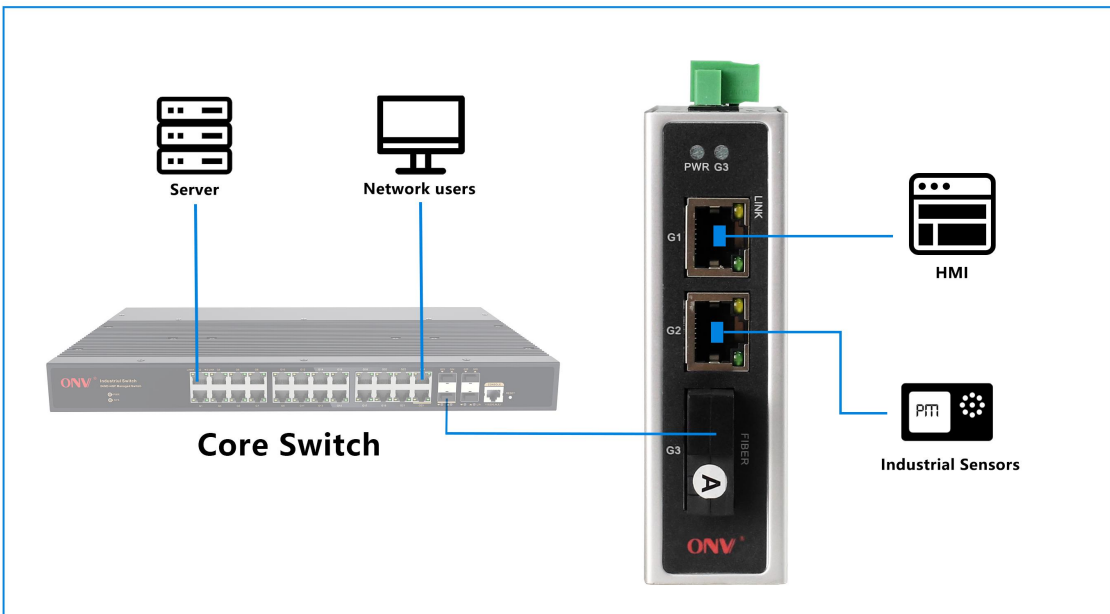
	<p>IEC61000-4-9 (Pulsed magnet field): 1000A/m</p> <p>IEC61000-4-10 (Damped oscillation): 30A/m, 1MHz</p> <p>IEC61000-4-12/18 (Shockwave): CM 2.5kV, DM 1kV</p> <p>IEC61000-4-4(EFT): Power cable:±4kV, Data cable: ±2kV</p> <p>IEC61000-4-16 (Common-mode transmission): 30V, 300V, 1s</p> <p>IEC61000-4-2 (ESD): ±8kV contact discharge, ±15kV air discharge</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-3s</p> <p>IEC61000-4-5 (Surge): Power cable: CM±4kV/ DM±2kV, Data cable: ±4kV</p>
Mechanical Properties	IEC60068-2-6 (Anti Vibration)
Properties	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-IPS3032F	Unmanaged industrial Ethernet switch with 2*10/100/1000M RJ45 ports and 1*1000M uplink SC fiber port (1310nm/20km single-mode dual fiber optical module). It can support DC redundant power supply input and DIN rail mounting.	24W/24V
ONV-IPS3032F-A	Unmanaged industrial Ethernet switch with 2*10/100/1000M	24W/24V

	RJ45 ports and 1*1000M uplink SC fiber port (1310nm/20km single-mode single fiber optical module). It can support DC redundant power supply input and DIN rail mounting.	
ONV-IPS3032F-B	Unmanaged industrial Ethernet switch with 2*10/100/1000M RJ45 ports and 1*1000M uplink SC fiber port (1550nm/20km single-mode single fiber optical module). It can support DC redundant power supply 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	3-port full gigabit industrial Ethernet fiber 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

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