

## Product Datasheet

# 6-port 2.5G Industrial Ethernet Fiber Switch

(ONV-IPS57064F)



## OVERVIEW

The ONV-IPS57064F is a 2.5G high-speed industrial Ethernet fiber switch independently developed by ONV. It has 4\*10/100/1000/2500Base-T adaptive RJ45 ports and 2\*1/2.5/10G uplink SFP+ fiber ports. Each port can support line-rate forwarding.

The ONV-IPS57064F follows the design materials of industrial products, and the shell is made of aluminum alloy to enhance heat dissipation, which has excellent industrial field environmental adaptability (mechanical stability, climate environment adaptability, electromagnetic environment adaptability, etc.), protection level IP40, support dual power supply, low power consumption, and 5 years warranty. The industrial switch is suitable for building cost-effective, stable, and reliable communication networks in industrial scenarios such as intelligent transportation, rail transportation, power industry, mining, petroleum, shipping, metallurgy, and green energy construction. Unmanaged mode, plug and play, no configuration, easy to use.

## FEATURE

### ■ 2.5G access, uplink 1/2.5G/10G SFP+ fiber port

- ◇ Support non-blocking wire-speed forwarding.
- ◇ Support full-duplex based on IEEE 802.3x and half-duplex based on Backpressure.
- ◇ Support 2.5G RJ45 port and 1/2.5/10G SFP+ fiber 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, and L/A.
- ◇ Low power consumption, no fan, aluminum alloy shell, and excellent heat dissipation to ensure the stable operation of the switch.

## TECHNICAL SPECIFICATION

Model	ONV-IPS57064F
<b>Interface Characteristics</b>	
Fixed Port	2*1/2.5/10G uplink SFP+ fiber ports (Data) 4*10/100/1000/2500Base-T RJ45 ports (Data) 2 set of V+, V- redundant DC power ports (5 Pin Phoenix terminal)
Ethernet Port	Port 1-4 support 10/100/1000/2500Base-T 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) 2500BASE-T: Cat6A or later UTP (≤100 meters)
Optical Fiber Port	1/10G SFP+ optical fiber port, default no include optical module (optional single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)

Optical Cable/ Distance	Multi-mode: 850nm/ 0-500m, 2.5G/10G /0-300m Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km
<b>Chip Parameter</b>	
Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X, IEEE 802.3bz 2.5GBase-T, IEEE 802.3ae 10GBase-SR/LR, IEEE 802.3x
Forwarding Mode	Store and Forward(Full Wire Speed)
Switching Capacity	60Gbps (non-blocking)
Forwarding Rate@64byte	44.64Mpps
MAC	4K
Buffer Memory	4Mbit
Jumbo Frame	12KB
LED Indicator	Power: PWR (Green), Network: Link (Yellow), Fiber port: L/A (Green)
<b>Power Supply</b>	
Power Consumption	Standby<3W, Full load<10W
Working Voltage	DC12-48V, 5 Pin industrial Phoenix terminal, support anti-reverse protection.
Power Supply	No, optional 24V/24W industrial power supply
<b>Physical Parameter</b>	
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)	119*100*30mm
Net /Gross Weight	0.4kg / 0.5kg
Installation	Desktop, 35mm DIN Rail
<b>Certification &amp; Warranty</b>	
Lightning Protection	Protection level: IP40

	<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): ±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), 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

## ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS57064F	Unmanaged industrial Ethernet fiber switch with 4*10/100/1000/2500M RJ45 ports and 2*1/2.5/10G uplink SFP+ fiber ports. It support dual DC power supply input and DIN rail mounting.	24V/24W

**Note:** The optical module and power supply are not included and need to be purchased.

## PACKING LIST

Packing List	Content	Qty	Unit
	6-port 2.5G industrial Ethernet switch	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

## OPTICAL MODULE

Product	Model	Description	Unit
1.25G Optical Module	2630-G	Industrial SFP optical module, 1.25G multi-mode dual fiber 850nm, transmission distance: 550m, LC interface. supports DDM function and hot plugging.	PC
	2632-G	Industrial SFP optical module, 1.25G single-mode dual fiber 1310nm, transmission distance: 20km, LC interface. supports DDM function and hot plugging.	PC
	2612-T-G	Industrial SFP optical module, 1.25G single-mode single fiber TX1310nm/ RX1550nm, transmission distance: 20km, LC interface. supports DDM function and hot plugging.	PC
	2613-R-G	Industrial SFP optical module, 1.25G single-mode single fiber TX1550nm/ RX1310nm, transmission distance: 20km, LC interface. supports DDM function and hot plugging.	PC
	2612-T-SC-G	Industrial SFP optical module, 1.25G single-mode single fiber TX1310nm/ RX1550nm, transmission distance: 20km, SC interface. supports DDM function and hot plugging.	PC
	2613-R-SC-G	Industrial SFP optical module, 1.25G single-mode single fiber TX1550nm/ RX1310nm, transmission distance: 20km, SC interface. supports DDM function and hot plugging.	PC
	10G	6630-G	Industrial SFP+ optical module, 10G multi-mode dual fiber

Optical Module		850nm, transmission distance: 300m, LC interface. supports DDM function and hot plugging.	
	7832-G	Industrial SFP+ optical module, 10G single-mode dual fiber 1310nm, transmission distance: 20km, LC interface. supports DDM function and hot plugging.	PC
	7832-33-G	Industrial SFP+ optical module, 10G single-mode single fiber TX1330nm/ RX1270nm, transmission distance: 20km, LC interface. supports DDM function and hot plugging.	PC
	7832-27-G	Industrial SFP+ optical module, 10G single-mode single fiber TX1270nm/ RX13300nm, transmission distance: 20km, LC interface. supports DDM function and hot plugging.	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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