

## Product Datasheet

# 12-port Full Gigabit Industrial Ethernet Fiber Switch (ONV-IPS3128F)



## OVERVIEW

The ONV-IPS3128F 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 adaptive RJ45 ports and 2\*1000M SFP fiber ports. Each port can support full line-rate forwarding.

The ONV-IPS3128F has excellent industrial field environment adaptability (including mechanical stability, climate adaptability, electromagnetic environment adaptability, etc.). The protection level is IP30, It can support dual redundant power supply, low power consumption, and no fan. 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. Unmanaged mode, plug and play, no configuration, easy to use.

## FEATURE

### ■ Gigabit Ethernet port access, uplink gigabit SFP port

- ◇ Uplink gigabit dual fiber ports, easy to achieve high bandwidth and long-distance transmission.
- ◇ Dual SFP fiber ports can cascade, and chain, compatible with SFP module connection.

### ■ 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 shell, excellent heat dissipation to ensure the stable operation of the switch.

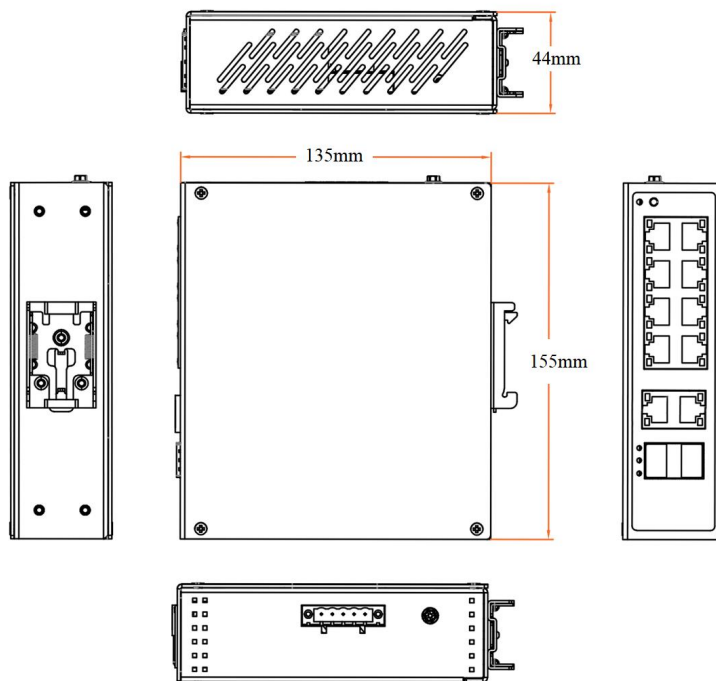
## TECHNICAL SPECIFICATION

Model	ONV-IPS3128F
<b>Interface Characteristics</b>	
Fixed Port	10*10/100/1000Base-T RJ45 ports (Data) 2*1000Base-X uplink SFP fiber ports (Data) 2 sets of V+, V- redundant DC power interface (5P Phoenix terminal)
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)
Ethernet Port	Port 1-10 support 10/100/1000Base-T(X) auto-sensing, full/ half duplex MDI/ MDI-X self-adaption
SFP Slot Port	Gigabit optical fiber interface, default not include optical modules (optional single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)
Optical Cable/ Distance	Multi-mode: 850nm/ 0-550m Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km.
<b>Chip Parameter</b>	




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	24Gbps
Forwarding Rate@64byte	17.86Mpps
MAC	8K
Buffer Memory	4Mb
Jumbo Frame	9.2KB
LED Indicator	Power: PWR (Green), Network: Link G1-G10 (Yellow) Fiber Port: L/A G11-G12 (Green)
<b>Power Supply</b>	
Power Consumption	Standby<8W, Full load<15W
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)	155*135*44mm
Net /Gross Weight	<0.6kg / <0.8kg
Installation	Desktop, DIN Rail
<b>Certification &amp; Warranty</b>	
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

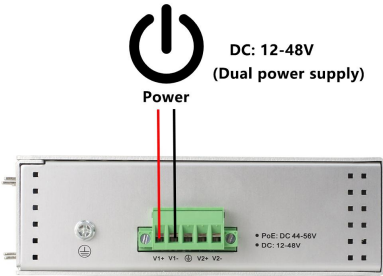
	IEC61000-6-2 (Common Industrial Standard) IEC61000-4-9 (Pulsed magnet field):1000A/m IEC61000-4-10 (Damped oscillation): 30A/m, 1MHz IEC61000-4-12/18 (Shockwave): CM 2.5kV, DM 1kV IEC61000-4-4(EFT): Power cable:±4kV, Data cable: ±2kV IEC61000-4-16 (Common-mode transmission): 30V, 300V, 1s IEC61000-4-2 (ESD): ±8kV contact discharge, ±15kV air discharge IEC61000-4-6 (Radio frequency transmission): 10V(150kHz~80MHz) IEC61000-4-5 (Surge): Power cable: CM±4kV/ DM±2kV, Data cable: ±4kV IEC61000-4-8 (Power frequency magnetic field):100A/m, 1000A/m,1s to 3s
Mechanical	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

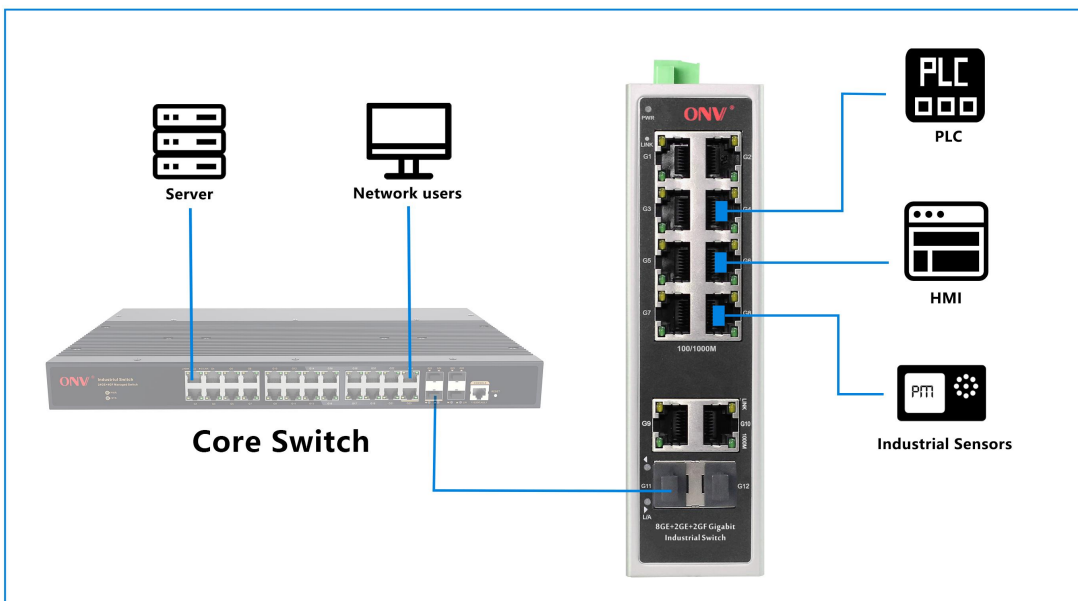
-  **Plug and play**
-  **Wide temperature range**
-  **DIN Rail installation**



DC: 12-48V  
(Dual power supply)

Power

V1+ V1- V2+ V2-



## ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS3128F	Unmanaged industrial Ethernet fiber switch with 10*10/100/100M RJ45 ports and 2*1000M uplink SFP fiber ports. It can support dual DC redundant power input and DIN rail mounting.	24W/24V

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

## PACKING LIST

Packing List	Content	Qty	Unit
	12-port full gigabit 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, support DDM function, support hot plug and pull.	PC
	2632-G	Industrial SFP optical module, 1.25G single-mode dual fiber 1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC
	2612-T-G	Industrial SFP optical module, 1.25G single-mode single fiber TX1310nm/ RX1550nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC
	2613-R-G	Industrial SFP optical module, 1.25G single-mode single fiber TX1550nm/ RX1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC
	2612-T-G-SC	Industrial SFP optical module, 1.25G single-mode single fiber TX1310nm/ RX1550nm, transmission distance: 20km, SC interface, support DDM function, support hot plug and pull.	PC
	2613-R-G-SC	Industrial SFP optical module, 1.25G single-mode single fiber TX1550nm/ RX1310nm, transmission distance: 20km, SC interface, support DDM function, support hot plug and pull.	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 50-60H, 0.35A Output Voltage: DC24V, 1.0A Operation Temperature: -40°C to +70°C	PC

## CONTACT US



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