

## Product Datasheet

# 10-port Full Gigabit Industrial Ethernet Switch

(ONV-IPS33108F)



## OVERVIEW

The ONV-IPS33108F is a full gigabit industrial Ethernet fiber 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 8\*10/100/1000M adaptive RJ45 ports and 2\*1000M SFP fiber slot ports. Each port can support full line-rate forwarding.

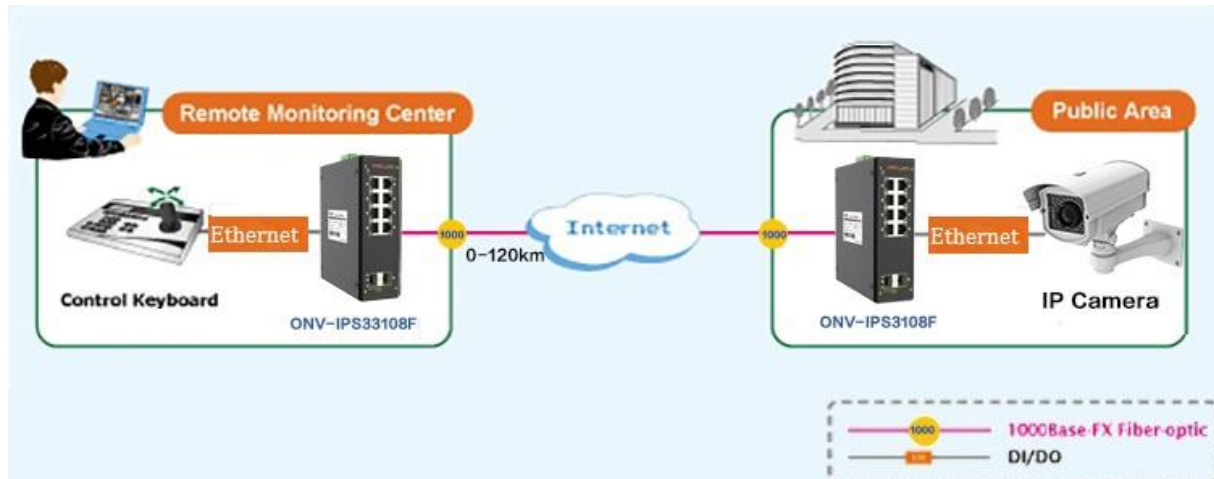
ONV-IPS33108F industrial Ethernet switch has excellent industrial field environment adaptability (including mechanical stability, climate adaptability, electromagnetic environment adaptability, etc.), protection level up to IP40, support for dual redundant power supply, low power consumption and no fan Cooling technology, MTBF average trouble-free working time up to 35 years, long 5-year warranty, non-management models, 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.

Unmanaged model, plug and play, no configuration, easy to use.

## FEATURE

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

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



### ■ Powerful port lightning protection

- ◇ Industrial dual power input
- ◇ Non-PoE DC INPUT: 12-48V.
- ◇ Contact discharge 8KV, air discharge 15KV; port lightning protection common-mode 4KV, differential mode 2KV.

### ■ Stable and reliable

- ◇ CCC, CE, FCC, RoHS.
- ◇ Low power consumption, No fan design, aluminum shell.
- ◇ The user-friendly panel can show the device status through the LED indicator of PWR, SYS, Link, L/A

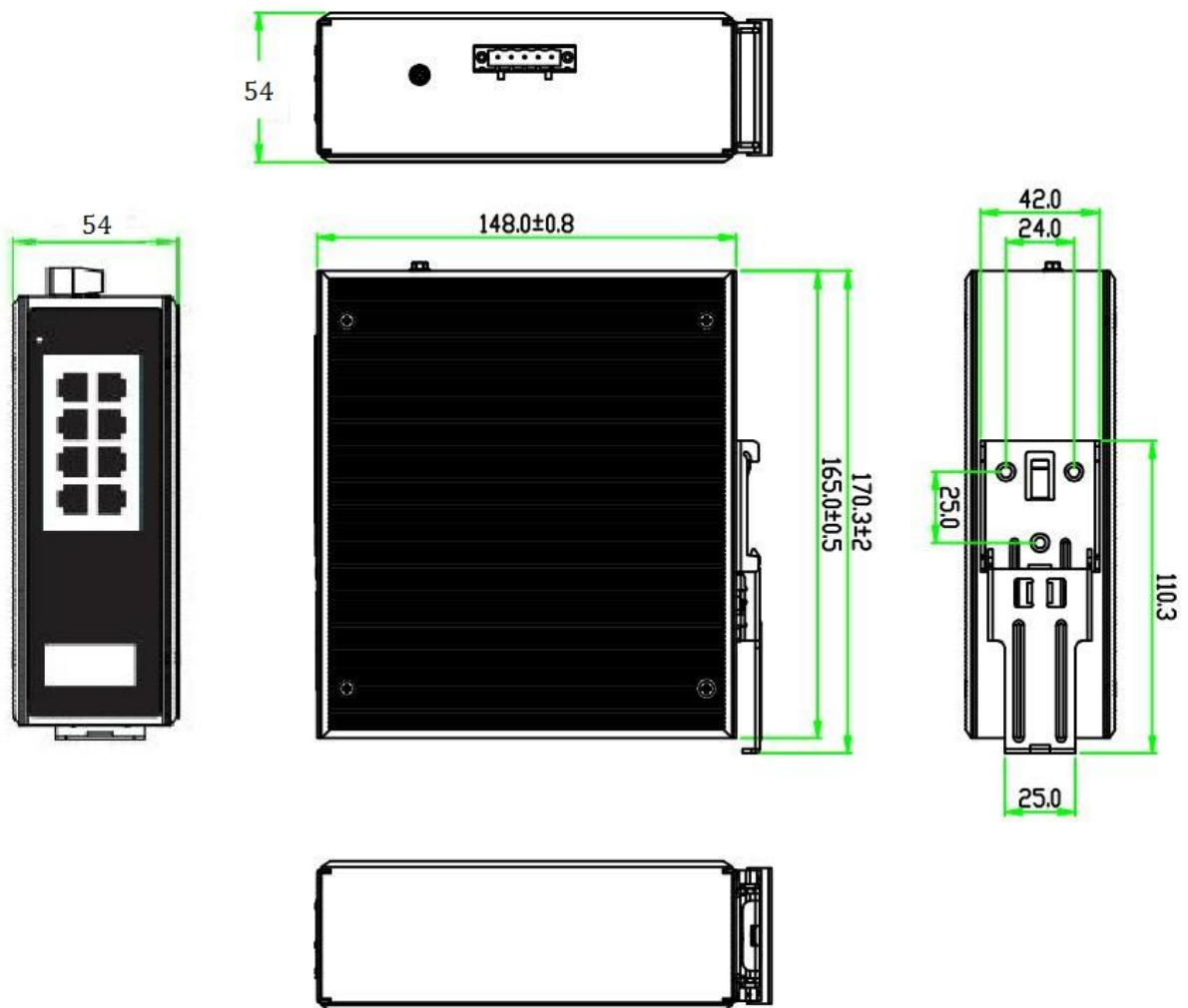
## TECHNICAL SPECIFICATION

Model	ONV-IPS33108F	ONV-IPS33128F
<b>Interface Characteristics</b>		
Fixed Port	8*10/100/1000Base-T RJ45 ports (Data) 2*1000Base-X uplink SFP fiber slot ports (Data) 2 sets of V+, V- redundant DC power interface (5P Phoenix terminal)	10*10/100/1000Base-T RJ45 ports (Data) 2*1000Base-X uplink SFP fiber slot ports (Data) 2 sets of V+, V- redundant DC power interface (5P Phoenix terminal)
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-TX: Cat5 or later UTP(≤100 meter) 1000BASE-T: Cat5e or later UTP(≤100 meter)	
Ethernet Port	Port 1-8/10 support 10/100/1000Base-T(X) auto-sensing, full/half duplex MDI/MDI-X self-adaption	
SFP Slot Port	Gigabit SFP 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/ 0~500M, 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	20Gbps	24Gbps
Forwarding Rate@64byte	14.88Mpps	17.86Mpps
MAC	8K	

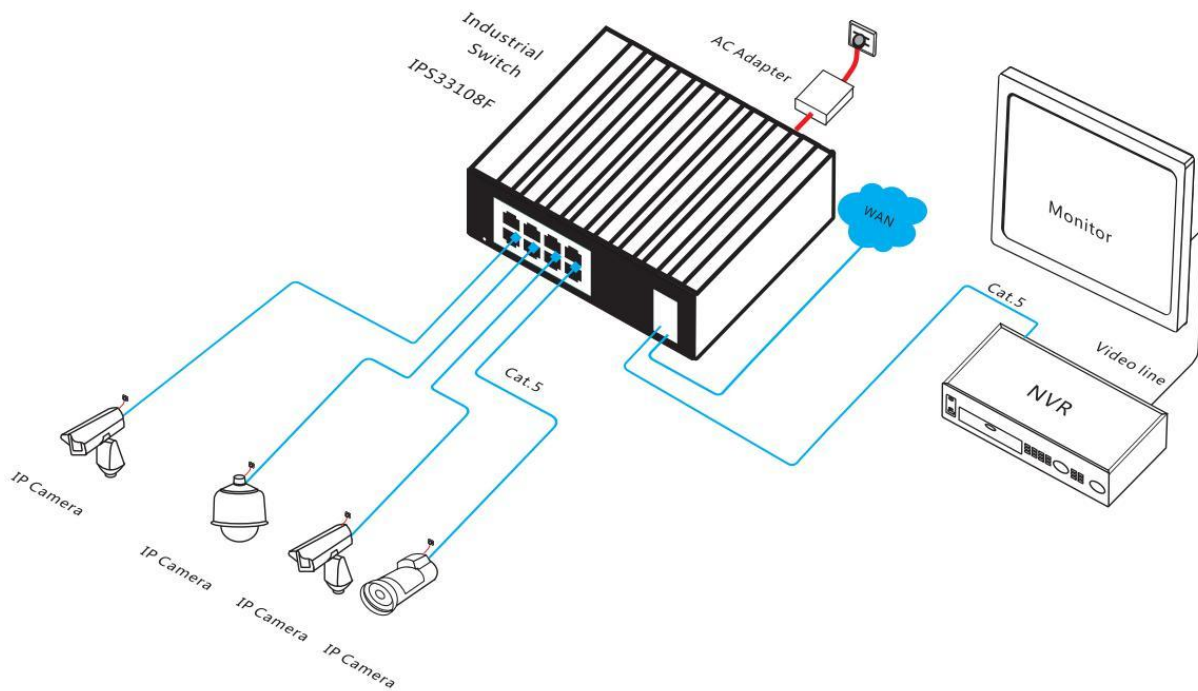
Buffer Memory	4M
Jumbo Frame	9.2K
LED Indicator	Power: PWR (Green), Network: Link, link/Act (Yellow)
<b>Power Supply</b>	
Power Consumption	Standby<8W, Full load<20W
Working Voltage	12-48VDC, 5 Pin industrial Phoenix terminal, support anti-reverse protection.
Power Supply	No, optional 24V/24W industrial 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)	165*148*54mm
Net /Gross Weight	<1.3kg / <1.8kg
Installation	Desktop, DIN rail
<b>Certification &amp; Warranty</b>	
Lightning Protection	<p>Lightning protection: 6KV 8/20us; Protection level: IP40</p> <p>IEC61000-4-2(ESD):±8kV contact discharge,±15kV air discharge</p> <p>IEC61000-4-3(RS):10V/m(80~1000MHz)</p> <p>IEC61000-4-4(EFT): power cable:±4kV; data cable:±2kV</p> <p>IEC61000-4-5(Surge):power cable:CM±4kV/DM±2kV; data cable:±4kV</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 to 3s</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>

	IEC61000-4-16(common-mode transmission):30V; 300V,1s FCC Part 15/CISPR22(EN55022):Class B IEC61000-6-2(Common Industrial Standard)
Mechanical Properties	IEC60068-2-6 (anti vibration), IEC60068-2-27 (anti shock) IEC60068-2-32 (free fall)
Certification	CCC, CE mark, commercial, CE/LVD EN60950, FCC Part 15 Class B RoHS
Warranty	5 years, lifelong maintenance.

## DIMENSION



## APPLICATION



## ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS33108F	Unmanaged industrial Ethernet fiber switch with 8*10/100/100M RJ45 ports and 2*1000M uplink SFP slot ports. It can support DC dual redundant power input and DIN rail mounting.	24W
ONV-IPS33128F	Unmanaged industrial Ethernet fiber switch with 10*10/100/100M RJ45 ports and 2*1000M uplink SFP slot ports. It can support DC dual redundant power input and DIN rail mounting.	24W

**Note:** Industrial Ethernet switch does not include the SFP optical module and power supply.

## PACKING LIST

	CONTENT	QTY	UNIT
PACKING LIST	10-port full gigabit industrial Ethernet switch	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

## OPTICAL MODULE INFORMATION

Product	Model	Description	Unit
1.25G Optical Module	ONV-2630	SFP optical module, 1.25G, multi mode dual fiber 850nm, transmission distance: 550m, LC interface, support DDM function, support hot plug and pull.	PC
	ONV-2632	SFP optical module, 1.25G, single-mode dual fiber 1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC
	ONV-2612-T	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
	ONV-2613-R	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	Industrial SFP optical module, 1.25G, single-mode single fiber TX1310nm/RX1550nm, transmission	PC

		distance: 20km, LC interface, support DDM function, support hot plug and pull.	
	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
	ONV-2612-T-SC	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
	ONV-2613-R-SC	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 Module	ONV-2633	1.25G SFP optical module transfers to 10/100/1000M RJ45 port.	PC

## POWER SUPPLY SELECTION TABLE

Product	Model	Description	Unit
24W DIN Rail Industrial Power Supply	GWS-DP24-24	Din Rail type 24W single set of output power supply; Input Voltage: AC 100V~240V 50-60Hz, 0.35A Output Voltage: DC 24V 1A Operation Temperature: -40°C—+70°C	PC



## RELATED PRODUCT

Model	Description
ONV-IPS33021F	Unmanaged industrial Ethernet fiber switch with 1*10/100/1000M RJ45 port and 1*1000M SFP slot port. It can support dual DC redundant power input and DIN rail mounting.
ONV-IPS33032F	Unmanaged industrial Ethernet fiber switch with 2*10/100/1000M RJ45 ports and 1*1000M SFP slot port. It can support dual DC redundant power input and DIN rail mounting.
ONV-IPS33042F	Unmanaged industrial Ethernet fiber switch with 2*10/100/1000M RJ45 ports and 2*1000M SFP slot ports. It can support dual DC redundant power input and DIN rail mounting.
ONV-IPS33064	Unmanaged industrial Ethernet fiber switch with 6*10/100/1000M RJ45 ports. It can support dual DC redundant power input and DIN rail mounting.
ONV-IPS33064F	Unmanaged industrial Ethernet fiber switch with 4*10/100/1000M RJ45 ports and 2*1000M SFP slot ports. It can support dual DC redundant power input and DIN rail mounting.
ONV-IPS33108	Unmanaged industrial Ethernet fiber switch with 10*10/100/1000M RJ45 ports. It can support dual DC redundant power input and DIN rail mounting.

## CONTACT US

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