

OPTICAL NETWORK VIDEO TECHNOLOGIES (SHENZHEN) CO.,
LTD.

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. The ONV-IPS33108F has 8*10/100/1000M adaptive RJ45 ports and 2*1000M SFP fiber slot ports, all of which 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, MT BF 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.

FEATURE

■ Full gigabit Ethernet port

- ◇ All series support "gigabit Ethernet port and SFP fiber port" combination, high-speed and high-bandwidth connection to meet network requirements of various industrial scenarios
- ◇ Support non-blocking wire speed forwarding .
- ◇ Support full duplex based on IEEE802.3x and half duplex based on backpressure .

■ The equipment is stable and reliable

- ◇ The host has low power consumption, no fan mute design, aluminum alloy metal shell, excellent heat dissipation, and ensure stable operation of products.
- ◇ The equipment fully meets the requirements of CCC, CE, FCC and RoHS safety regulations, and is safe and reliable.
- ◇ The user can easily understand the working status of the device through the power indicator (PWR), port status indicator (Link) operation indicator.

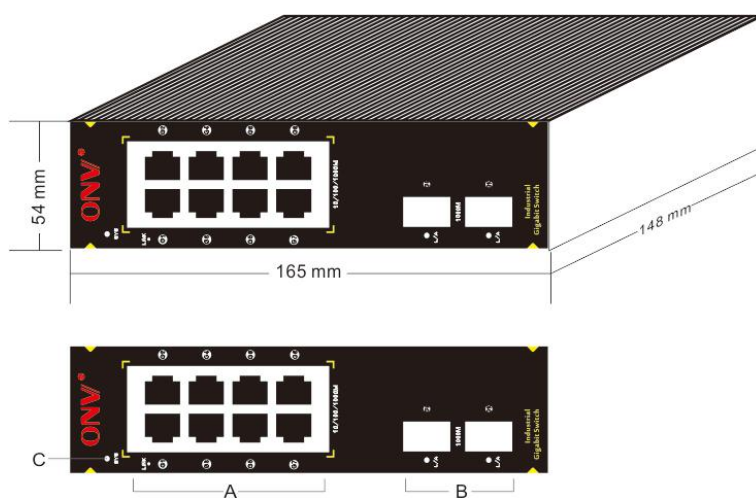
TECHNICAL SPECIFICATION

Model	ONV-IPS33108F	ONV-IPS33108
Interface	8*10/100/1000Base-T RJ45 ports (Data) 2*1000Base-X uplink SFP fiber slot ports (Data) 2 groups V+, V- redundant DC power interface (5P phoenix terminal)	10*10/100/1000Base-T RJ45 ports (Data) 2 groups V+, V- redundant DC power interface (5P phoenix terminal)
Network Protocol	IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3u 100Base-TX; IEEE802.3ab 1000Base-T; IEEE802.3z 1000Base-X; IEEE802.3x	
Ethernet Port Feature	10/100/1000Base-T automatic detection, full / half duplex MDI/MDI-X adaptive	

SFP Port Characteristic	Gigabit SFP fiber interface, default matching optical modules, need to buy separately, (optional order single mode / multi-mode, single fiber / double fiber optical module.	No
Forwarding Mode	Store and Forward(Full Wire Speed)	
Switching Capacity	20Gbps	
Forwarding Rate@64byte	14.88Mpps	
MAC	8K	
Buffer Memory	4M	
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)	
Optical Fiber Cable	Multi Mode: 850nm 0-550M; Single Mode: 1310nm 0-40KM, 1550nm 0-120KM.	No
Operating Voltage	DC power supply, DC12-48V ultra-wide power supply voltage, workmanship 5P Phoenix terminal connection, support anti-reverse protection	
Power Consumption	Standby:<6W;Full load:<10W;	
LED Indicator	Power indicator: PWR (green); Network indicator: Link(yellow)	
Power Supply	No, you can purchase industrial power supply DC12V or DC24V, see the accessory information table for purchase.	
Operation TEMP / Humidity	-40~+80°C;5%~90% RH Non condensing	
Storage TEMP / Humidity	-40~+85°C;5%~95% RH Non condensing	
Dimension	165*148*54mm	145*134.5*47.5mm
Net /Gross Weight	<1.0kg / <1.6kg	<0.8kg / <1.2kg
Installation Method	Desktop type, 35mm DIN rail mounting	
Lightning protection / protection level	Lightning protection: 6KV 8/20us;Protection level: IP40 IEC61000-4-2(ESD):±8kV contact discharge,±15kV air discharge IEC61000-4-3(RS):10V/m(80~1000MHz) IEC61000-4-4(EFT): power cable:±4kV; data cable:±2kV IEC61000-4-5(Surge):power cable:CM±4kV/DM±2kV; data cable:±4kV IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz) IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m ,1s to 3s 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 IEC61000-4-16(common-mode transmission):30V; 300V,1s FCC Part 15/CISPR22(EN55022):Class B	

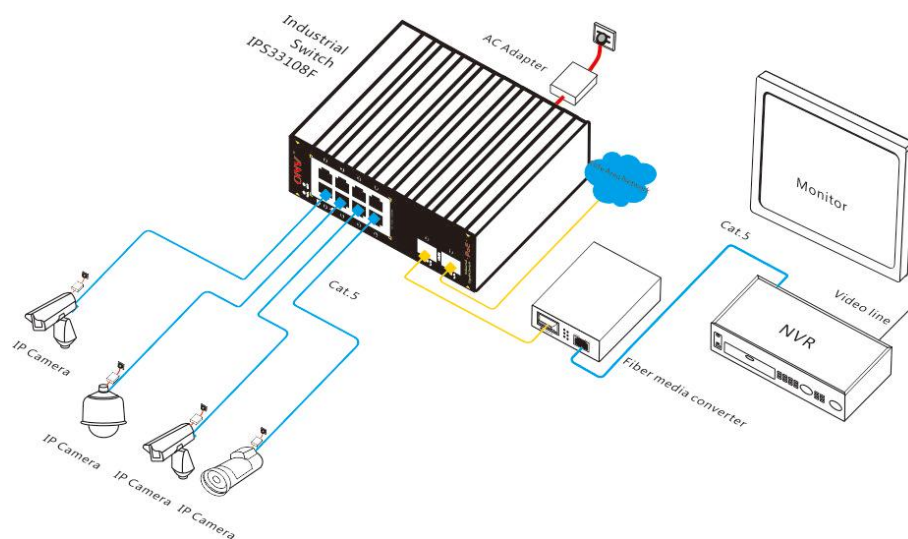
	IEC61000-6-2(Common Industrial Standard)
Mechanical Properties	IEC60068-2-6 (anti vibration) IEC60068-2-27 (anti shock) IEC60068-2-32 (free fall)
Certification	CE mark, commercial; CE/LVD EN60950;FCC Part 15 Class B; RoHS;
Warranty	5 years , lifelong maintenance.

DIMENSION



- A.8*10/100/100M RJ45 Port
- B.2*Gigabit SFP Port C.Working indicator

APPLICATION



PACKING LIST

PACKING LIST	CONTENT		QTY	UNIT
	10-port full gigabit industrial Ethernet switch (ONV-IPS33108F)		1	SET
	User Guide		1	PC
	Warranty Card		1	PC

Note: industrial Ethernet switch does not match the power supply and SFP module by default. If you need to purchase it, please refer to the accessory product information.

ORDERING INFORMATION

Model	Description
ONV-IPS33108F	Unmanaged industrial Ethernet fiber switch with 8*10/100/1000M RJ45 ports and 2*1000M SFP fiber slot ports, Support DC redundant power supply connection . Support DIN rail mounting .
ONV-IPS33108	Unmanaged industrial Ethernet switch with 10*10/100/1000M RJ45 ports , Support DC redundant power supply connection .Support DIN rail mounting .

SELECTION OF INFORMATION

Fiber Module Selection Table

Product	Model	Description	Unit
1.25G Fiber 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	PC

		TX1550nm/RX1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	
	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.	
	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.	
	ONV-2612-T-S C	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-S C	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
Electric Module	ONV-2633	1.25G SFP optical module transfers to 10/100/1000M RJ45 net 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
36W DIN Rail Industrial Power Supply	GWS-DP36-24	Din Rail type 36W single set of output power supply; Input Voltage:AC 100V~240V 50-60Hz, 0.56A Output Voltage:DC 24V 1.5A Operation Temperature:-40°C—+70°C	PC

CONTACT US



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