Product Datasheet

10-port Gigabit Industrial Ethernet Switch

(ONV-IPS33108F)



OVERVIEW

The ONV-IPS33108F is a 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 uplink SFP fiber ports. Each port can support full line-rate forwarding.

The ONV-IPS33108F has excellent industrial field environment adaptability (including mechanical stability, climate adaptability, electromagnetic environment adaptability, etc.). 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 line-speed access, uplink SFP port
- Support non-blocking wire-speed forwarding.

- ♦ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.
- ♦ Support Gigabit RJ45 port and SFP fiber port to meet the networking requirements 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 and Link.
- ♦ Low power consumption, no fan, aluminum shell, and excellent heat dissipation to ensure the stable operation of the switch.

TECHNICAL SPECIFICATION

Model	ONV-IPS33108F	
Interface Characteristics		
	8*10/100/1000Base-T RJ45 ports (Data)	
Fixed Port	2*1000Base-X uplink SFP fiber ports (Data)	
	2 sets V+, V- redundant DC power port (5P phoenix terminal)	
Ethernet Port	Port 1-8 support 10/100/1000Base-T(X) auto-sensing, full/ half duplex MDI/	
Ethernet Port	MDI-X self-adaption	
T : (ID :	10BASE-T: Cat3,4,5 UTP (≤100 meters)	
Twisted Pair Transmission	100BASE-TX: Cat5 or later UTP (≤100 meters)	
Transmission	1000BASE-T: Cat5e or later UTP (≤100 meters)	
Ontical Fiber Port	Gigabit optical fiber port, default not include optical module (optional	
Optical Fiber Port	single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)	
Optical Cable/	Multi-mode: 850nm/ 0-550m, Single-mode: 1310nm/ 0-40km, 1550nm/	
Distance	0-120km	
Chip Parameter		
Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX,	
NEIWORK PROTOCOL	IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X, IEEE 802.3x	

Forwarding Mode	Store and Forward (Full Wire Speed)	
Switching Capacity	20Gbps (non-blocking)	
Forwarding Rate	14.88Mpps	
@64byte		
MAC	8K	
Buffer Memory	4M	
Jumbo Frame	9.2K	
LED Indicator	Power: PWR (Green), Network: Link, Link/Act (Yellow)	
Power Supply		
Work Voltage	DC12-48V, 5 Pin industrial Phoenix terminal, support anti-reverse protection.	
Power Consumption	Standby<8W, Full load<20W	
Power Supply	No, optional 24V/24W industrial power supply	
Physical Parameter		
Operation TEMP/	-40~+80°C, 5%~90% RH Non condensing	
Humidity	240 1 00 G, 570 190 70 TAT Nort Condensing	
Storage TEMP/	-40~+85°C, 5%~95% RH Non condensing	
Humidity	-40 100 O, 570 5570 INTINOIT CONDENSING	
Dimension (L*W*H)	145*134.5*47mm	
Net /Gross Weight	0.9kg / 1.1kg	
Installation	Desktop, 35mm DIN Rail	
Certification & Warra	nty	
	Protection level: IP40	
	Lightning protection: 6KV 8/20us	
Lightning Protection	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	

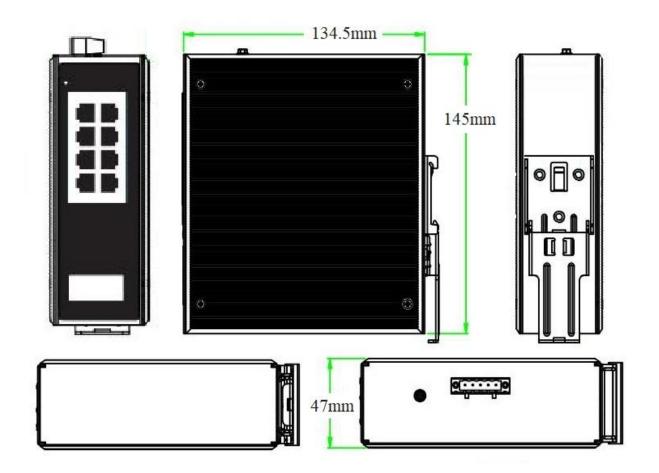
IEC61000-4-10 (Damped oscillation): 30A/m 1MHz

IEC61000-4-12/18 (Shockwave): CM2.5kV, DM1kV

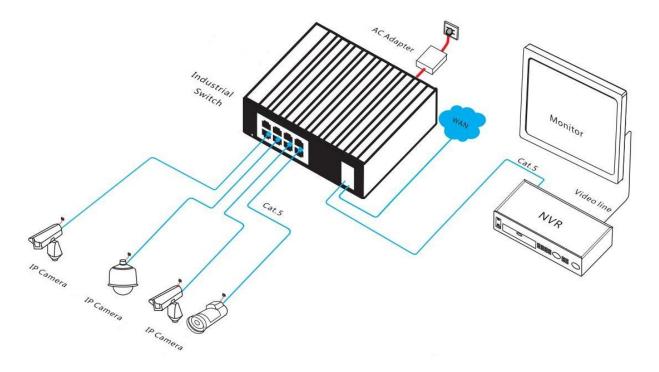
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	IEC61000-4-4(EFT): Power cable: ±4kV, data cable: ±2kV
	IEC61000-4-16 (Common-mode transmission): 30V, 300V, 1s
	IEC61000-4-2 (ESD): ±8kV contact discharge, ±15kV air discharge
	IEC61000-4-6 (Radio frequency transmission): 10V(150kHz~80MHz)
	IEC61000-4-8 (Power frequency magnetic field): 100A/m, 1000A/m, 1s-3s
	IEC61000-4-5 (Surge): Power cable: CM±4kV/ DM±2kV, data cable: ±4kV
Mechanical	IEC60068-2-6 (Anti Vibration), IEC60068-2-27 (Anti Shock), IEC60068-2-32
Properties	(Free Fall)
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-IPS33108F	Unmanaged industrial Ethernet fiber switch with 8*10/100/100M RJ45 ports and 2*1000M uplink SFP fiber ports. It can support dual DC power input and DIN rail mounting.	24V/24W

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

PACKING LIST

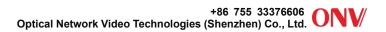
Packing List	Content	Qty	Unit
	10-port gigabit industrial Ethernet switch	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

OPTICAL MODULE

Product	Model	Description	Unit
	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
1.25G	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
Optical Module	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-G-SC	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-G-SC	Industrial SFP optical module, 1.25G single-mode single fiber TX1550nm/ RX1310nm, transmission distance: 20km, SC 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 50-60H, 0.35A Output Voltage: DC24V, 1.0A Operation Temperature: -40℃ to +70℃	PC



RELATED PRODUCT

Model	Description	
	Unmanaged industrial Ethernet fiber switch with 2*10/100/1000M RJ45	
ONV-IPS33032F	ports and 1*1000M uplink SFP fiber port. It can support dual DC power	
	input and DIN rail mounting.	
	Unmanaged industrial Ethernet fiber switch with 2*10/100/1000M RJ45	
ONV-IPS33042F	ports and 2*1000M uplink SFP fiber pors. It can support dual DC power	
	input and DIN rail mounting.	
	Unmanaged industrial Ethernet fiber switch with 4*10/100/1000M RJ45	
ONV-IPS33064F	ports and 2*1000M uplink SFP fiber pors. It can support dual DC power	
	input and DIN rail mounting.	
ONV-IPS33064	Unmanaged industrial Ethernet switch with 6*10/100/1000M RJ45 ports. It	
	can support dual DC power input and DIN rail mounting.	
ONIV ID222400	Unmanaged industrial Ethernet switch with 10*10/100/1000M RJ45 ports. It	
ONV-IPS33108	can support dual DC power input and DIN rail mounting.	
	Unmanaged industrial Ethernet fiber switch with 10*10/100/1000M RJ45	
ONV-IPS33128F	ports and 2*1000M uplink SFP fiber pors. It can support dual DC power	
	input and DIN rail mounting.	

CONTACT US

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