

Product Datasheet

10-port Full Gigabit Industrial PoE Fiber Switch

(ONV-IPS33108PF)



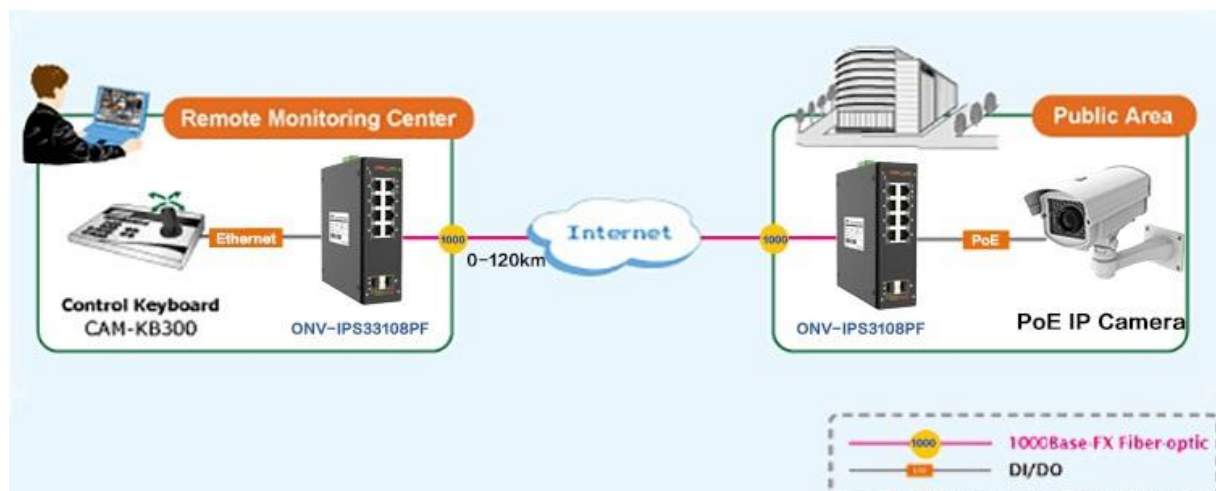
OVERVIEW

The ONV-IPS33108PF is a full gigabit industrial PoE fiber switch independently developed by ONV. It has 8*10/100/1000Base-T RJ45 ports and 2*1000Base-X uplink SFP slot ports. Port 1-8 can support IEEE802.3af/at PoE standard. single-port PoE power up to 30W, and the maximum PoE output power of the host is 120W. As a PoE power supply device, it can automatically detect and recognize the power receiving equipment that meets the standard and supply power through the network cable. It can supply power to PoE terminal device such as wireless AP, IP camera, industrial sensor through the network cable, and meet the network environment that needs high-density PoE power supply. It is suitable for intelligent transportation, rail transit, power industry, mining, petroleum, sea transportation. Industrial scenes such as metallurgy and green energy construction form a cost-effective, stable and reliable communication network.

FEATURE

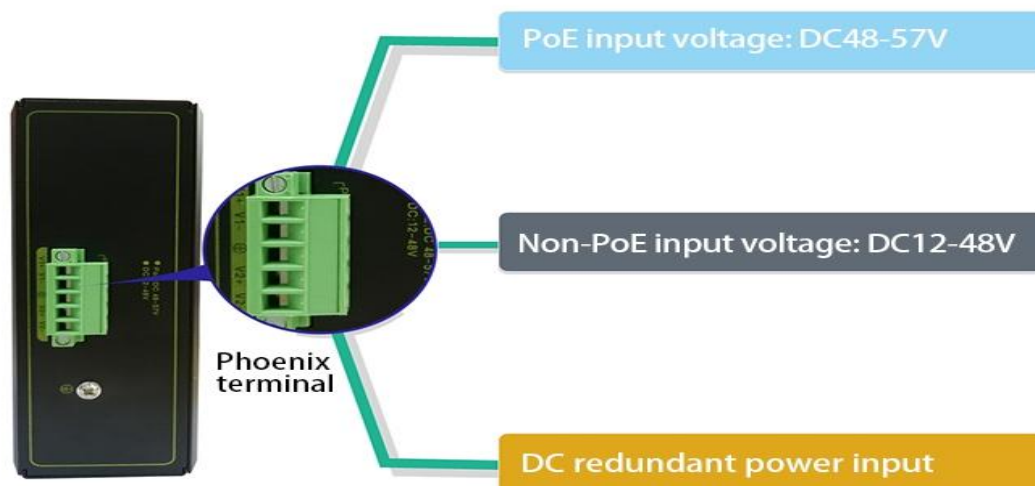
■ Full gigabit access, SFP port uplink

- ◇ Supports Gigabit RJ45 port and gigabit SFP port combination, which enables users to flexibly build networking to meet the needs of various scenarios.
- ◇ Support non-blocking wire-speed forwarding.
- ◇ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.



■ Powerful port lightning protection, wide voltage input

- ◇ Contact discharge 8KV, air discharge 15KV; port lightning protection common-mode 4KV, differential mode 2KV
- ◇ Industrial dual power input
- ◇ DC INPUT: 48V-57V, non-PoE DC INPUT: 12-48V.



■ Intelligent PoE power supply

- ◇ 8*10/100/1000Base-T RJ45 ports, meeting the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.
- ◇ IEEE802.3af/at PoE standard, without damaging non-PoE devices.
- ◇ Priority system for PoE port, it will supply power to the high priority level port first when the power budget is insufficient and avoid overwork of the device.

■ Stable and reliable

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

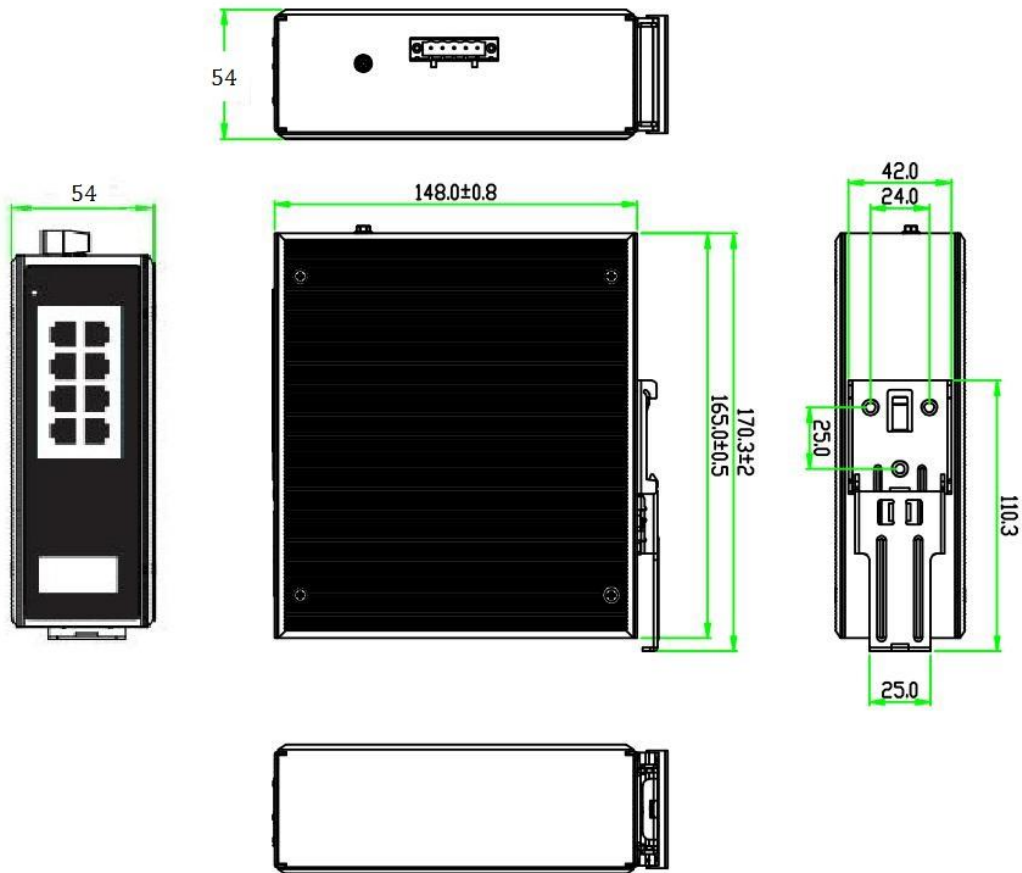
TECHNICAL SPECIFICATION

Model	ONV-IPS33108PF
Interface Characteristics	
Fixed Port	8*10/100/1000Base-T PoE ports (Data/Power) 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	10/100/1000Base-T(X) auto-sensing, full/half duplex MDI/MDI-X self-adaption
SFP Slot Port	Gigabit SFP optical fiber interface, default no include optical modules (optional single-mode / multi-mode, single fiber / dual fiber optical module. LC)

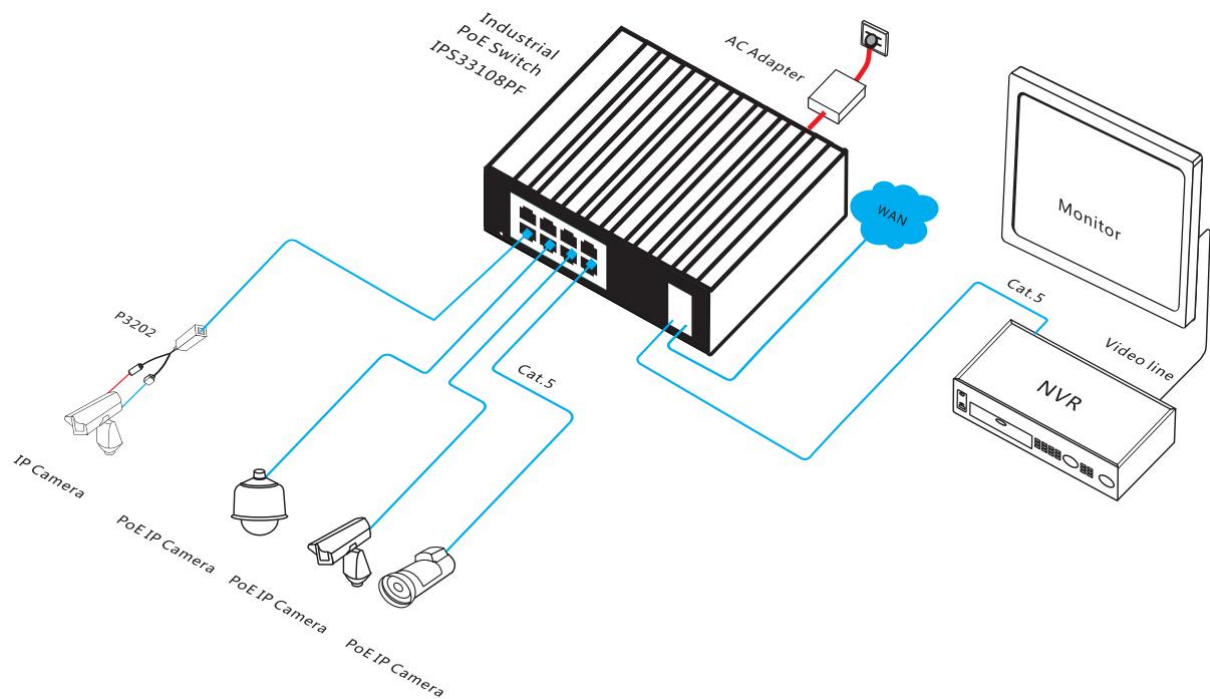
Optical Cable/ Distance	Multi-mode: 850nm 0~500M; 1310nm 0~2kM; Single-mode: 1310nm 0~40KM, 1550nm 0-120KM.
Chip Parameter	
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x
Forwarding Mode	Store and Forward(Full Wire Speed)
Switching Capacity	20Gbps
Forwarding Rate@64byte	14.88Mpps
MAC	8K
Buffer Memory	4M
Jumbo Frame	9.2K
CPU	416M
DRAM	1G
FLASH	128M
LED Indicator	Power: PWR (Green), Network: Link,link/Act (Yellow), PoE: PoE (Green)
PoE & Power Supply	
PoE Port	Port 1-8
Power Supply Pin	Default 1/2 (+), 3/6 (-)
Max Power Per Port	30W; IEEE802.3af/at
Total PWR / Input Voltage	120W/48VDC
Power Consumption	Standby:<8W;Full load:<120W
Working Voltage	48-57VDC, 5 Pin industrial Phoenix terminal, support anti-reverse protection.
Power Supply	No, optional 48V/120W industrial power supply
Physical Parameter	

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 / <1.5kg
Installation	Desktop, DIN rail
Certification & Warranty	
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> <p>IEC61000-4-16(common-mode transmission):30V; 300V,1s</p> <p>FCC Part 15/CISPR22(EN55022):Class B</p> <p>IEC61000-6-2(Common Industrial Standard)</p>
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-IPS33108PF	Unmanaged industrial PoE fiber switch with 8*10/100/100M RJ45 ports and 2*1000M uplink SFP slot ports. Port 1-8 can support PoE IEEE802.3af/at. It can support DC dual redundant power input and DIN rail mounting.	120W

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

PACKING LIST

	CONTENT	QTY	UNIT
PACKING LIST	10-port full gigabit industrial PoE fiber 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 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
	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
120W DIN Rail Industrial Power Supply	GWS-DP120-48	Din Rail type 120W single set of output power supply; Input Voltage:AC 100V~240V 50-60Hz,1.5A Output Voltage:DC 48V 2.5A Operation Temperature:-40℃—+70℃	PC
240W DIN Rail Industrial Power Supply	GWS-DP240-48	Din Rail type 240W single set of output power supply; Input Voltage:AC 100V~240V 50-60Hz,3A Output Voltage:DC 48V 5A Operation Temperature:-40℃—+70℃	PC

RELATED PRODUCT

Model	Description
ONV-IPS33021PF	Unmanaged industrial PoE fiber switch with 1*10/100/1000M RJ45 port and 1*1000M SFP slot port. Port 1 can support IEEE802.3af/at PoE standard. Support DC dual power supply input and DIN rail mounting.
ONV-IPS33032PF	Unmanaged industrial PoE fiber switch with 2*10/100/1000M RJ45 ports and 1*1000M SFP slot port. Port 1-2 can support IEEE802.3af/at PoE standard. Support DC dual power supply input and DIN rail mounting.
ONV-IPS33042PF	Unmanaged industrial PoE fiber switch with 2*10/100/1000M RJ45 ports and 2*1000M SFP slot ports. Port 1-2 can support IEEE802.3af/at PoE standard. Support DC dual power supply input and DIN rail mounting.
ONV-IPS33064PF	Unmanaged industrial PoE fiber switch with 4*10/100/1000M RJ45 ports

	and 2*1000M SFP slot ports. Port 1-4 can support IEEE802.3af/at PoE standard. Support DC dual power supply input and DIN rail mounting.
ONV-IPS33128PF	Unmanaged industrial PoE fiber switch with 10*10/100/1000M RJ45 ports and 2*1000M SFP slot ports. Port 1-8 can support IEEE802.3af/at PoE standard. Support DC dual power supply input and DIN rail mounting.

CONTACT US



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