

12-port Full Gigabit Industrial Ethernet Switch

- 10*10/100/1000M RJ45 ports and 2*1000M uplink SFP slot ports.
- Dual uplink SFP fiber port , long-distance transmission
- Dual power supply redundant input
- 6KV port lightning protection
- -40°C—+80°C operation temperature
- Large cache military-level master chip configuration
- IP40 protection aluminum alloy case
- 5-year warranty



OVERVIEW

The ONV-IPS33128F 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 10*10/100/1000M adaptive RJ45 ports and 2*1000M SFP fiber slot ports, Each port can support full line-rate forwarding.

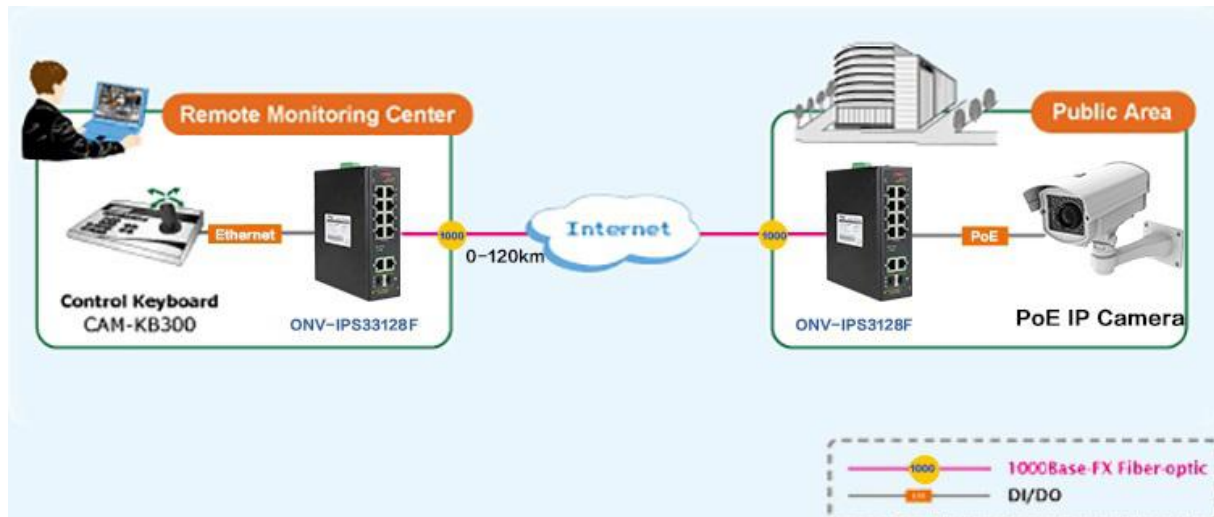
ONV-IPS33128F industrial Ethernet switch has excellent industrial field environment adaptability (including mechanical stability, climate adaptability, electromagnetic environment adaptability, etc.), protection level up to IP40, support for dual redundant power supply, low power consumption and no fan 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, wide voltage input

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



■ Stable and reliable

- ◇ Low power consumption, fan-less design, aluminum shell.
- ◇ Self-developed power supply, high redundancy design, providing a long term and stable PoE power output.
- ◇ CCC, CE, FCC, RoHS.
- ◇ The user-friendly panel, it can show the device status through the LED indicator of PWR, SYS, Link, L/A



TECHNICAL SPECIFICATION

Model	ONV-IPS33108F	ONV-IPS33128F
Interface Characteristics		
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)

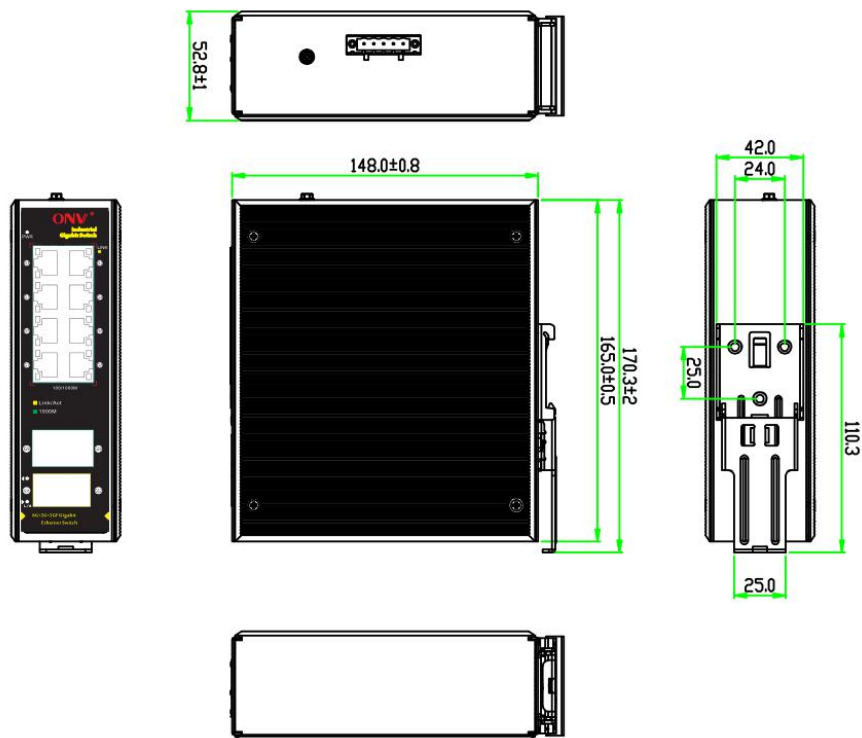
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-TX: Cat5 or later UTP(≤100 meter) 1000BASE-T: Cat5e or later UTP(≤100 meter)	
Ethernet Port	Port 1-8 support 10/100/1000Base-T(X) auto-sensing, full/half duplex MDI/MDI-X self-adaption	Port 1-10 support 10/100/1000Base-T(X) auto-sensing, full/half duplex MDI/MDI-X self-adaption
SFP Slot Port	Gigabit SFP optical fiber interface, default not matching optical modules (optional order 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.	
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	24Gbps
Forwarding Rate@64byte	14.88Mpps	17.86Mpps
MAC	8K	
Buffer Memory	4M	
Jumbo Frame	9.2K	
LED Indicator	Powe: PWR (green), Network: Link,link/Act (yellow)	
Power		
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	
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)	145*134.5*47.5mm	165*148*54mm
Net /Gross Weight	<1.0kg / <1.3kg	<1.3kg / <1.8kg
Installation	Desktop, DIN rail	
Certification & Warranty		
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 A 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

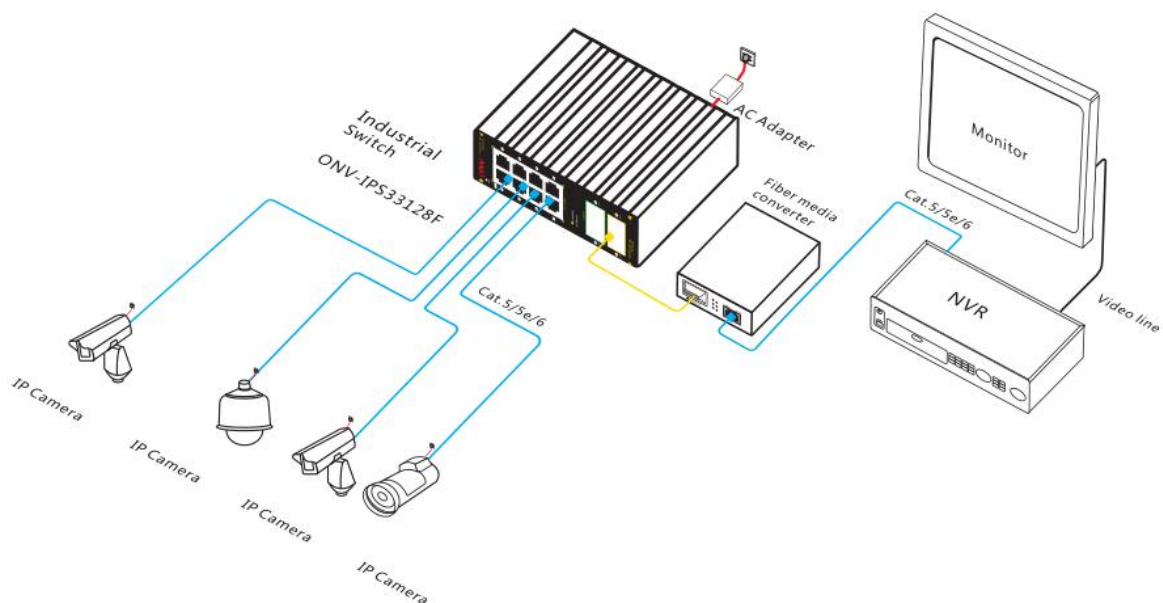
5 years, lifelong maintenance.

DIMENSION

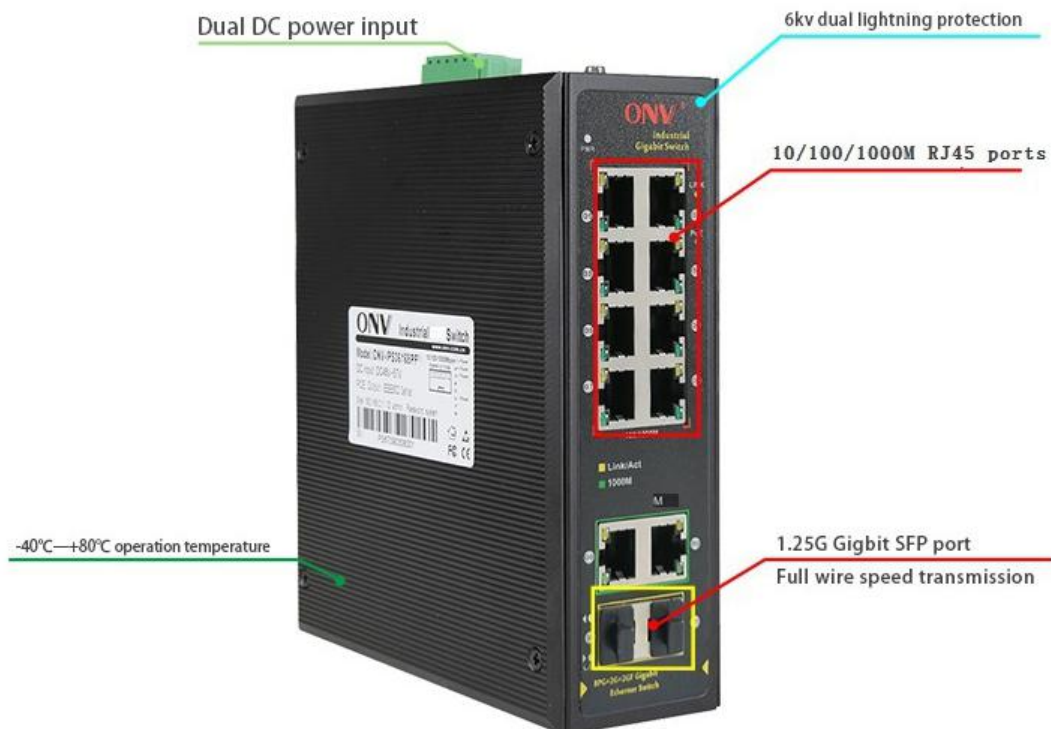


APPLICATION

1. Network topology



2. Product overview



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 match the SFP optical module and power supply.

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 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-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
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℃—+70℃	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 G	Unmanaged industrial Ethernet fiber switch with 5*10/100/1000M RJ45 ports and 1*1000M SFP slot port. 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.

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