

Product Datasheet

3-port Full Gigabit Industrial PoE Switch

(ONV-IPS33032PF)



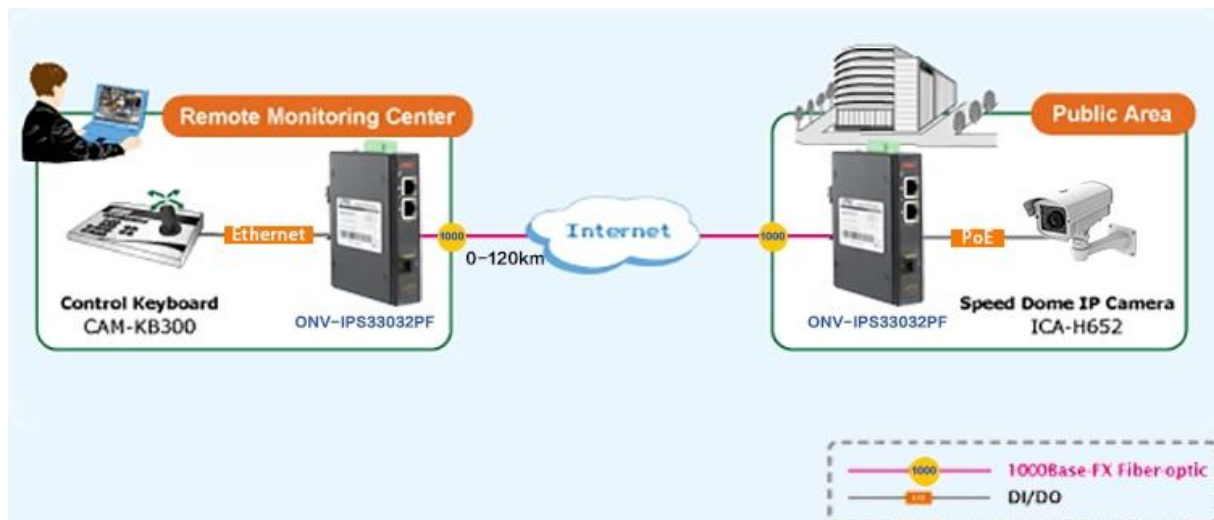
OVERVIEW

The ONV-IPS33032PF is a full gigabit industrial PoE fiber switch independently developed by ONV. It has 2*10/100/1000Base-T RJ45 ports and 1*1000Base-X SFP fiber slot port. Port 1-2 can support IEEE802.3af/at PoE standard. Single port PoE power is 30W. As a PoE power supply device, it can automatically detect and recognize power-compliant devices that meet the standard and supply power through the network cable. It can supply power to POE terminal equipment such as wireless AP, webcam, VoIP, 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, Industrial scenes such as shipping, metallurgy, and green energy construction form a cost-effective, stable and reliable communication network.

FEATURE

■ Gigabit Ethernet access, SFP fiber port uplink

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



■ Port lightning protection

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

■ Intelligent PoE power supply

- ◇ IEEE802.3af/at PoE standard, without damaging non-PoE devices.
- ◇ 2*10/100/1000Base-T RJ45 ports, meeting the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.
- ◇ 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

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

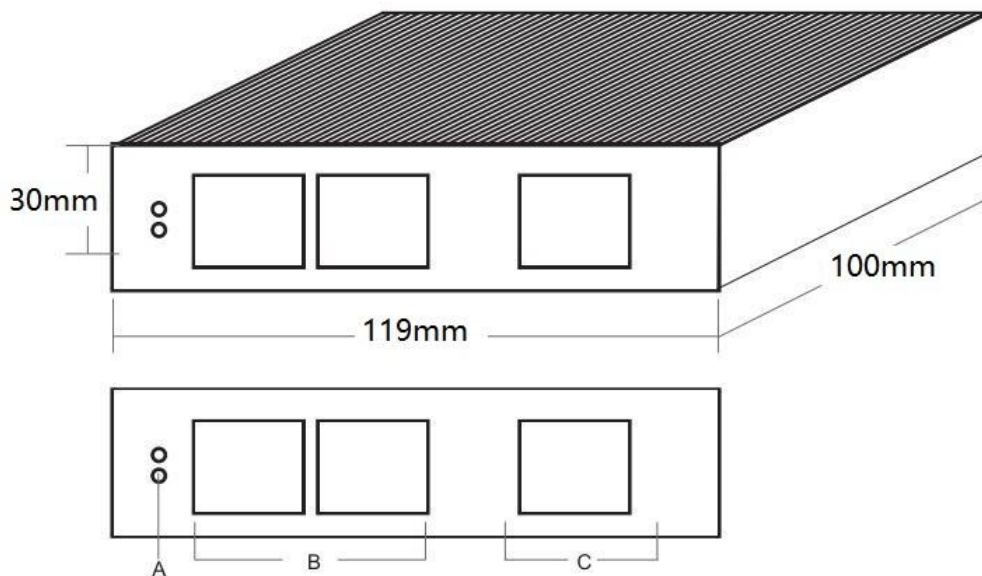
TECHNICAL SPECIFICATION

Model	ONV-IPS33032PF
Interface Characteristics	
Fixed Port	2*10/100/1000Base-T PoE ports (Data/Power) 1*1000Base-X uplink SFP fiber slot port(Data) 2 set of V+, V- redundant DC power interface (5P Phoenix terminal)
Ethernet Port	Port 1-2 support 10/100Base-TX auto-sensing, Full/half duplex MDI/MDI-X self-adaption
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)
Fiber Port	Gigabit SFP optical fiber port, 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.
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	10Gbps
Forwarding	4.46Mpps

Rate@64byte	
MAC	2K
Buffer Memory	2M
Jumbo Frame	9.2K
LED Indicator	Power: PWR (Green), Network: Link (Yellow), PoE: PoE (Green)
PoE & Power Supply	
PoE Port	Port 1 to 2 IEEE802.3af/at @ POE
Power Supply Pin	1/2 (+) 3/6 (-)
Max Power Per Port	30W, IEEE802.3af/at
Power Consumption	Standby<5W, Full load af<30W, at<60W
Power Supply	No, optional 48V/36W or 48V/60W industrial power supply
Working Voltage	DC48-57V, 5P industrial Phoenix terminal, support anti-reverse protection.
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)	92*88*32mm
Net /Gross Weight	<0.4kg / <0.6kg
Installation	Desktop, DIN rail
Certification & Warranty	
Lightning Protection	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

	<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	<p>IEC60068-2-6 (anti vibration)</p> <p>IEC60068-2-27 (anti shock)</p> <p>IEC60068-2-32 (free fall)</p>
Certification	<p>CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B, RoHS</p>
Warranty	<p>5 years, lifelong maintenance.</p>

DIMENSION

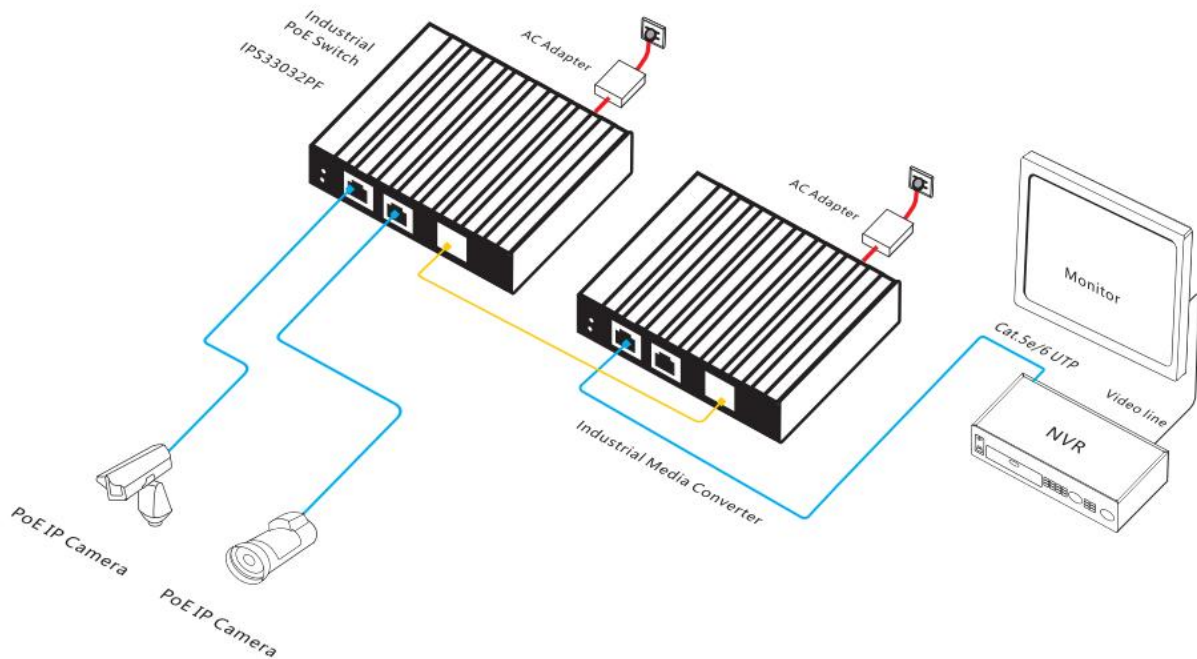


A. Working indicator

B. 2*10/100/1000M PoE ports

C. 1*1000M uplink SFP port

APPLICATION



ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS33032PF	Unmanaged industrial PoE fiber switch with 2*10/100/1000M RJ45 ports and 1*1000M uplink SFP slot port. Port 1-2 can support IEEE802.3af/at PoE standard. Support DC dual power supply input and DIN rail mounting.	36W/60W

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

PACKING LIST

Packing List	Content	Qty	Unit
	3-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	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
	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
	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
	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	PC

		interface, support DDM function, support hot plug and pull.	
	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
	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	2633	1.25G SFP optical module transfers to 10/100/1000M RJ45 port.	PC

POWER SUPPLY

Product	Model	Description	Unit
36W Desktop Power Adaptor	GWS-AP36-52	Desktop 36W single set of output power adapter Input Voltage: AC 100V~240V 50-60Hz, 0.56A Output Voltage: DC 52V 0.7A Operation Temperature: -20°C to +65°C	PC
65W Desktop Power Adaptor	GWS-AP65-52	Desktop 65W single set of output power adapter Input Voltage: AC 100V~240V 50-60Hz, 1.1A Output Voltage: DC 52V 1.25A Operation Temperature: -20°C to +65°C	PC
36W DIN Rail Industrial Power Supply	GWS-DP36-48	Din Rail 36W single set of output power supply Input Voltage: AC 100V~240V 50-60Hz, 0.56A Output Voltage: DC 48V 0.75A Operation Temperature: -40°C to +70°C	PC
60W DIN Rail	GWS-DP60-48	Din Rail 60W single set of output power supply	PC

Industrial Power Supply	Input Voltage: AC 100V~240V 50-60Hz, 1.0A Output Voltage: DC 48V 1.25A Operation Temperature: -40℃ to +70℃
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RELATED PRODUCT

Model	Description
ONV-IPS33021PF	Unmanaged industrial PoE fiber switch with 1*10/100/1000M RJ45 port and 1*1000M SFP port. Port 1 can support IEEE802.3af/at PoE standard. It can support dual DC redundant power input (Phoenix terminal connection) and and DIN rail mounting.
ONV-IPS33042PF	Unmanaged industrial PoE fiber switch with 2*10/100/1000M RJ45 ports and 2*1000M SFP ports. Port 1-2 can support IEEE802.3af/at PoE standard. It can support dual DC redundant power input (Phoenix terminal connection) and and DIN rail mounting.
ONV-IPS33064PF	Unmanaged industrial PoE fiber switch with 4*10/100/1000M RJ45 ports and 2*1000M SFP ports. Port 1-4 can support IEEE802.3af/at PoE standard. It can support dual DC redundant power input (Phoenix terminal connection) and and DIN rail mounting.
ONV-IPS33064PFG	Unmanaged industrial PoE fiber switch with 5*10/100/1000M RJ45 ports and 1*1000M SFP port. Port 1-4 can support IEEE802.3af/at PoE standard. It can support dual DC redundant power input (Phoenix terminal connection) and and DIN rail mounting.
ONV-IPS33108PF	Unmanaged industrial PoE fiber switch with 8*10/100/1000M RJ45 ports and 2*1000M SFP ports. Port 1-8 can support IEEE802.3af/at PoE standard. It can support dual DC redundant power input (Phoenix terminal connection) and and DIN rail mounting.

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