

Product Datasheet

3-port Full Gigabit Industrial PoE Fiber Switch

(ONV-IPS33032PFS)



OVERVIEW

The ONV-IPS33032PFS 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 SC single-mode dual-fiber optical module (optional single-mode/multi-mode, single-fiber/dual-fiber optical module). Port 1-2 can support IEEE802.3af/at standard PoE. 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, maritime, metallurgy, and Industrial scenarios such as green energy construction build cost-effective, stable, and reliable communication networks.

FEATURE

■ Gigabit line speed access, Gigabit optical port uplink

- ◇ Support Gigabit Ethernet port and Gigabit SC optical 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.

■ Intelligent PoE power supply

- ◇ 2*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, aluminum shell.
- ◇ CCC, CE, FCC, RoHS.
- ◇ The user-friendly panel can show the device status through the LED indicator of PWR, Link, PoE.

TECHNICAL SPECIFICATION

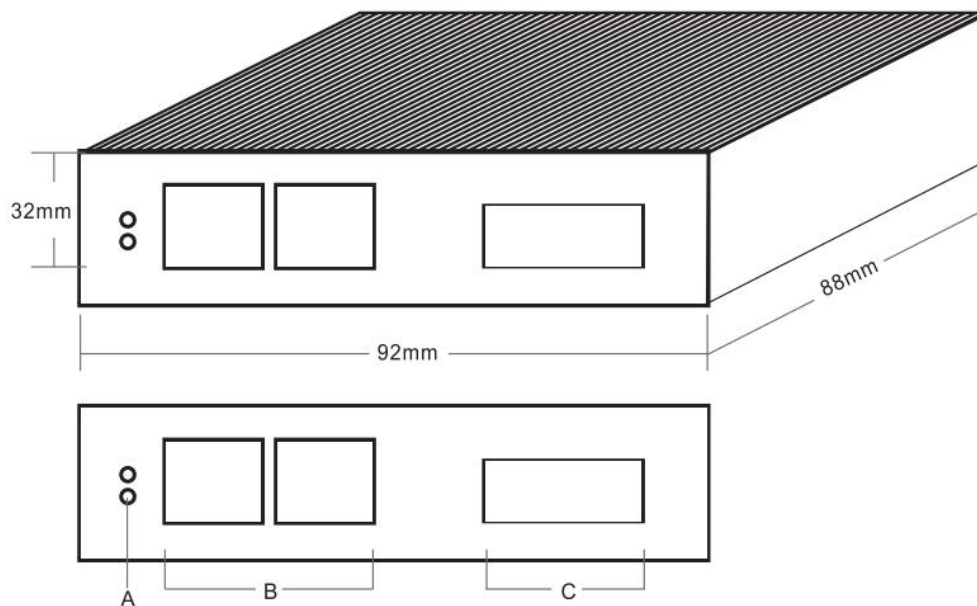
Model	ONV-IPS33021PFS	ONV-IPS33032PFS
Interface Characteristics		
Fixed Port	1*10/100/1000Base-T PoE port (Data/Power)	2*10/100/1000Base-T PoE ports (Data/Power)
	1*1000Base-X single-mode	1*1000Base-X single-mode

	dual-fiber SC fiber port(Data) 2 set of V+, V- redundant DC power interface (5P Phoenix terminal)	dual-fiber SC fiber port(Data) 2 set of V+, V- redundant DC power interface (5P Phoenix terminal)
Ethernet Port	10/100/1000Base-T(X) 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	Default Gigabit single-mode dual-fiber SC optical module (optional single-mode single-fiber/multi-mode dual-fiber optical module)	
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 Rate@64byte	2.98Mpps	4.46Mpps
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 support IEEE802.3af/at @ POE	Port 1 to 2 support IEEE802.3af/at @ POE
Power Supply Pin	Default :1/2 (+), 3/6 (-)	

Total PWR / Input Voltage	Max 36W/48-57VDC	Max 60W/48-57VDC
Power Consumption	Standby<4W, Full load<32W	Standby<5W, Full load<60W
Operating Voltage	48-57VDC, 5P industrial Phoenix terminal, support anti-reverse protection.	
Power Supply	No, optional 48V/36W or 48V/60W 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)	92*88*32mm	
Net /Gross Weight	<0.4kg / <0.6kg	
Installation	Desktop, 35mm 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	
	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	CCC, CE mark, commercial, CE/LVD EN60950, FCC Part 15 Class B RoHS
Warranty	5 years, lifelong maintenance.

DIMENSION

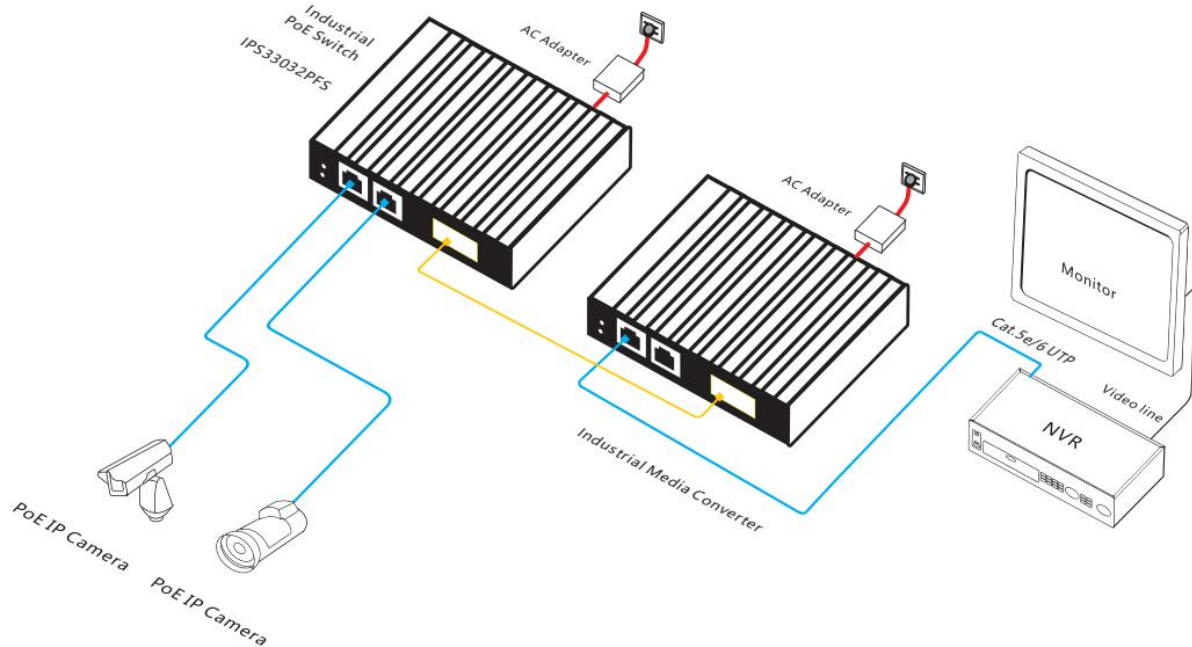


A. Working Indicator

B. 2x10/100/1000M PoE Ports

C. 1*1000M SC single-mode dual-fiber optical module

APPLICATION



ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS33021PFS-M	Unmanaged industrial PoE fiber switch with 1*10/100/1000M PoE port and 1*1000M uplink multi-mode dual fiber (850nm) SC optical module. Port 1 support IEEE802.3af/at PoE standard. It can support dual DC redundant power input (Phoenix terminal connection) and DIN rail mounting.	24W/36W
ONV-IPS33021PFS	Unmanaged industrial PoE fiber switch with 1*10/100/1000M PoE port and 1*1000M uplink single-mode dual-fiber(1310nm) SC optical module.	24W/36W

	Port 1 support IEEE802.3af/at PoE standard. It can support dual DC redundant power input (Phoenix terminal connection) and DIN rail mounting.	
ONV-IPS33021PFS-A	Unmanaged industrial PoE fiber switch with 1*10/100/1000M PoE port and 1*1000M uplink single-mode single-fiber(1310/1550nm) SC optical module. Port 1 support IEEE802.3af/at PoE standard. It can support dual DC redundant power input (Phoenix terminal connection) and DIN rail mounting.	24W/36W
ONV-IPS33021PFS-B	Unmanaged industrial PoE fiber switch with 1*10/100/1000M PoE port and 1*1000M uplink single-mode single-fiber(1550/1310nm) SC optical module. Port 1 support IEEE802.3af/at PoE standard. It can support dual DC redundant power input (Phoenix terminal connection) and DIN rail mounting.	24W/36W
ONV-IPS33032PFS-M	Unmanaged industrial PoE fiber switch with 2*10/100/1000M PoE ports and 1*1000M uplink multi-mode dual fiber (850nm) SC optical module. Port 1-2 support IEEE802.3af/at PoE standard. It can support dual DC redundant power input (Phoenix terminal connection) and DIN rail mounting.	36W/60W
ONV-IPS33032PFS	Unmanaged industrial PoE fiber switch with 2*10/100/1000M PoE ports and 1*1000M uplink single-mode dual-fiber(1310nm) SC optical module. Port 1-2 support IEEE802.3af/at PoE standard. It can support dual DC redundant power input (Phoenix terminal connection) and DIN rail mounting.	36W/60W
ONV-IPS33032PFS-A	Unmanaged industrial PoE fiber switch with 2*10/100/1000M PoE ports and 1*1000M uplink	36W/60W

	single-mode single-fiber(1310/1550nm) SC optical module. Port 1-2 support IEEE802.3af/at PoE standard. It can support dual DC redundant power input (Phoenix terminal connection) and DIN rail mounting.	
ONV-IPS33032PFS-B	Unmanaged industrial PoE fiber switch with 2*10/100/1000M PoE ports and 1*1000M uplink single-mode single-fiber(1550/1310nm) SC optical module. Port 1-2 support IEEE802.3af/at PoE standard. It can support dual DC redundant power input (Phoenix terminal connection) and and DIN rail mounting.	36W/60W

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

PACKING LIST

	CONTENT	QTY	UNIT
PACKING LIST	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	ONV-2630-G	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-G	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-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
	ONV-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-G	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-G	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-G	1.25G SFP optical module transfers to 10/100/1000M RJ45 port.	PC

POWER SUPPLY SELECTION TABLE

Product	Model	Description	Unit
36W Desktop Power Adaptor	GWS-AP36-52	Desktop tape 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℃—+65℃	PC
65W Desktop Power Adaptor	GWS-AP65-52	Desktop tape 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℃—+65℃	PC
36W DIN Rail Industrial Power Supply	GWS-DP36-48	Din Rail type 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℃—+70℃	PC
60W DIN Rail Industrial Power Supply	GWS-DP60-48	Din Rail type 60W single set of output power supply; Input Voltage:AC 100V~240V 50-60Hz,1A Output Voltage:DC 48V 1.25A 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 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.

CONTACT US



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