

Product Datasheet

3-port 10/100M Industrial Ethernet Fiber Switch

(ONV-IPS31032FS)



OVERVIEW

The ONV-IPS31032FS is a 10/100M industrial Ethernet fiber switch independently developed by ONV. It has 2*10/100Base-TX RJ45 ports and 1*155M SC fiber port. Each port can support full line-rate forwarding.

ONV-IPS31032FS 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, 5-year warranty. unmanaged 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.

FEATURE

■ 10/100M access, Fast Ethernet

- ◇ 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 SC optical port combination, which enables users to flexibly build networking to meet the needs of various scenarios.

■ Stable and reliable

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

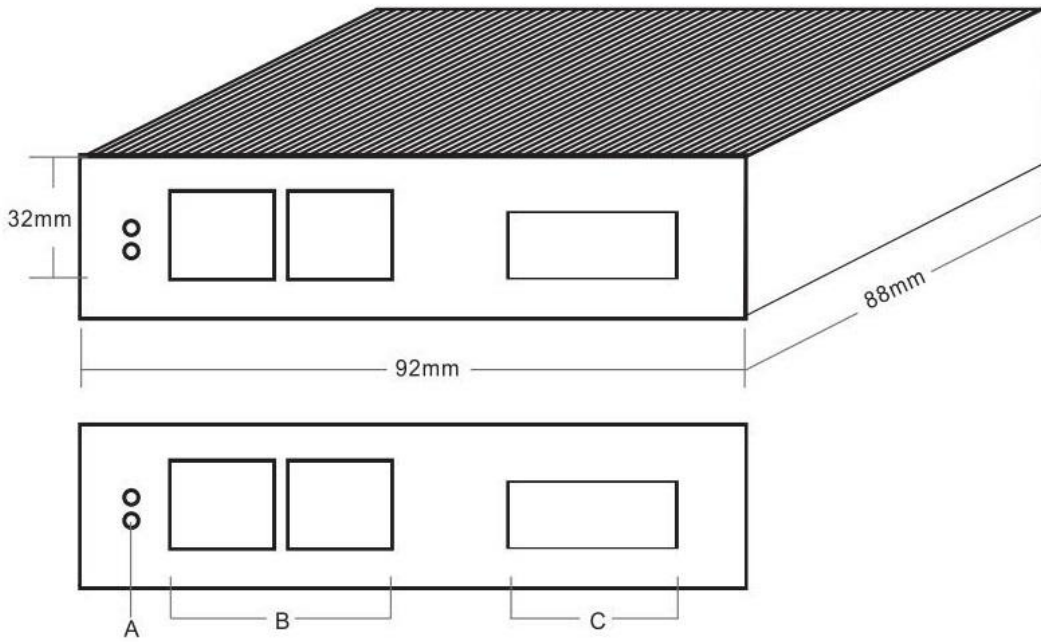
TECHNICAL SPECIFICATION

Model	ONV-IPS31032FS
Interface Characteristics	
Fixed Port	1*155M SC fiber port(Data) 2*10/100Base-TX RJ45 ports (Data) 2 set of V+, V- redundant DC power interface (3P Phoenix terminal)
Ethernet Port	Port 1 to 2 support 10/100Base-TX auto-sensing, full/half duplex MDI/MDI-X self-adaption
Twisted Pair	10BASE-T: Cat3,4,5 UTP(≤100 meters)
Transmission	100BASE-TX: Cat5 or later UTP(≤100 meters)
Fiber Port	Default optical module is single-mode dual-fiber 20km, SC port
Optical Cable/ Distance	Multi-mode: 850nm / 0-550M, 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, IEEE802.3x
Forwarding Mode	Store and Forward(Full Wire Speed)
Switching Capacity	1.6Gbps
Forwarding Rate@64byte	0.45Mpps
MAC	1K
Buffer Memory	768K
Jumbo Frame	1536byte
LED Indicator	Power: PWR (Green), Network: Link (Yellow)
Power Supply	
Power Consumption	Standby<3W, Full load<5W
Operating Voltage	DC12-48V, 3P 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)	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)

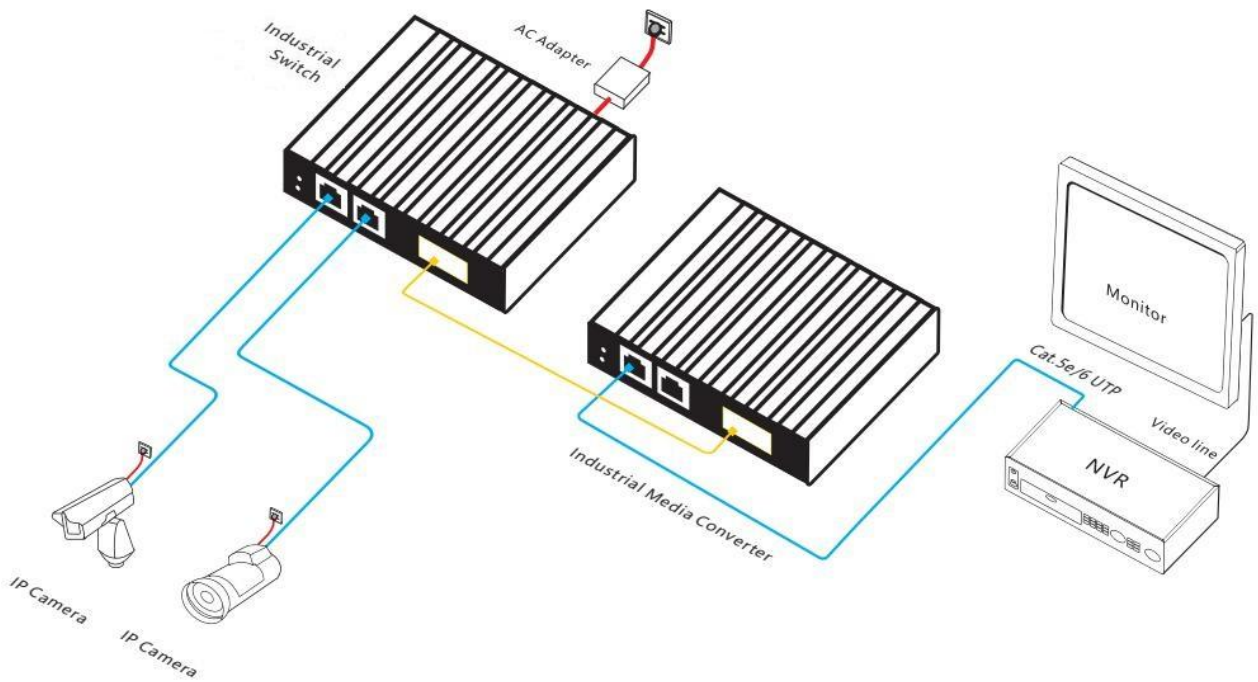
	<p>IEC61000-4-4(EFT): power cable:±4kV; data cable:±2kV</p> <p>IEC61000-4-5(Surge):power cable:CM±4kV/DM±2kV; data cable:±4kV</p> <p>IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz)</p> <p>IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m ,1s to 3s</p> <p>IEC61000-4-9(pulsed magnet 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	<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</p> <p>RoHS</p>
Warranty	<p>5 years, lifelong maintenance.</p>

DIMENSION



- A. Working indicator
- B. 2*10/100M RJ45 ports
- C. 1*155M SC fiber ports

APPLICATION



ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS31032FS-M	Unmanaged industrial Ethernet fiber switch with 2*10/100M RJ45 port and 1*155M uplink SC port. By default, the SC port 850nm/0.5km or 1310nm/2km multi-mode dual fiber module. It can support dual DC redundant power input and DIN rail mounting.	12W/24W
ONV-IPS31032FS	Unmanaged industrial Ethernet fiber switch with 2*10/100M RJ45 ports and 1*155M uplink SC port. By default, the SC port 1310nm/20km single-mode dual fiber module. It can support dual DC redundant power input and DIN rail mounting.	12W/24W
ONV-IPS31032FS-A	Unmanaged industrial Ethernet fiber switch with 2*10/100M RJ45 ports and 1*155M uplink SC port. By default, the SC port 1310nm/20km single-mode single fiber module. It can support dual DC redundant power input and DIN rail mounting.	12W/24W
ONV-IPS31032FS-B	Unmanaged industrial Ethernet fiber switch with 2*10/100M RJ45 ports and 1*155M uplink SC port. By default, the SC port 1550nm/20km single-mode single fiber module. It can support dual DC redundant power input and DIN rail mounting.	12W/24W

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

PACKING LIST

PACKING LIST	CONTENT	QTY	UNIT
	3-port 10/100M industrial Ethernet fiber switch	1	SET
	User Guide	1	PC
	Warranty Card	1	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:AC 100V~240V 50-60Hz, 0.35A Output Voltage:DC24V 1.0A Operation Temperature:-40℃—+70℃	PC

RELATED PRODUCT

Model	Description
ONV-IPS31004F	Unmanaged industrial Ethernet fiber switch with 4*10/100M RJ45 ports and 1*155M SC port, By default, the SC port 1310mm/20km single-mode dual fiber module. It can support dual DC redundant power input and DIN rail mounting.
ONV-IPS31064F	Unmanaged industrial Ethernet fiber switch with 4*10/100M RJ45 port and 2*155M SFP ports. It can support dual DC redundant power input and DIN rail mounting.

ONV-IPS31084F	Unmanaged industrial Ethernet fiber switch with 6*10/100M RJ45 ports and 2*155M SC ports. By default, the SC port 1310mm/20km single-mode dual fiber module. It can support dual DC redundant power input and DIN rail mounting.
ONV-IPS31128FB	Unmanaged industrial Ethernet fiber switch with 8*10/100M RJ45 ports and 2*10/100/1000M RJ45 ports and 2*1000M SFP slot ports. It can support dual DC redundant power input and DIN rail mounting.

CONTACT US

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