Product Datasheet

3-port 10/100M Industrial Ethernet Switch

(ONV-IPS31032FS)



OVERVIEW

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

The ONV-IPS31032FS has excellent industrial field environment adaptability (including mechanical stability, climate adaptability, electromagnetic environment adaptability, etc.). It is suitable for industrial scenes such as intelligent transportation, rail transit, power industry, mining, petroleum, shipping, metallurgy, and green energy construction to form a cost-effective, stable, and reliable communication network. Unmanaged mode, plug and play, no configuration, easy to use.

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 10/100M RJ45 port and 155M SC fiber port combination, which enables users to flexibly build networking to meet the needs of various scenarios.

Stable and reliable

- ♦ CCC, CE, FCC, RoHS.
- The user-friendly panel can show the device status through the LED indicator of PWR and Link.
- ♦ Low power consumption, no fan, aluminum shell, and excellent heat dissipation to ensure the stable operation of the switch.

TECHNICAL SPECIFICATION

Model	ONV-IPS31032FS		
Interface Characteristics			
	1*155M uplink SC fiber port (Data)		
Fixed Port	2*10/100Base-TX RJ45 ports (Data /Power)		
	2 sets V+, V- redundant DC power ports (5P Phoenix terminal)		
Ethernet Port	Port 1-2 can 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: Cat5e or later UTP (≤100 meters)		
Optical Fiber Port	Default optical module is single-mode dual fiber 20km, SC port		
Optical Fiber Fort	(optional single-mode single fiber and multi-mode dual fiber optical module)		
Optical Cable/	Multi-mode: 850nm/ 0-500m, 1310nm /0-2km, Single-mode: 1310nm/		
Distance	0-40km, 1550nm/ 0-120km		
Chip Parameter			
Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX,		
	IEEE 802.3x		
Forwarding Mode	Store and Forward (Full Wire Speed)		

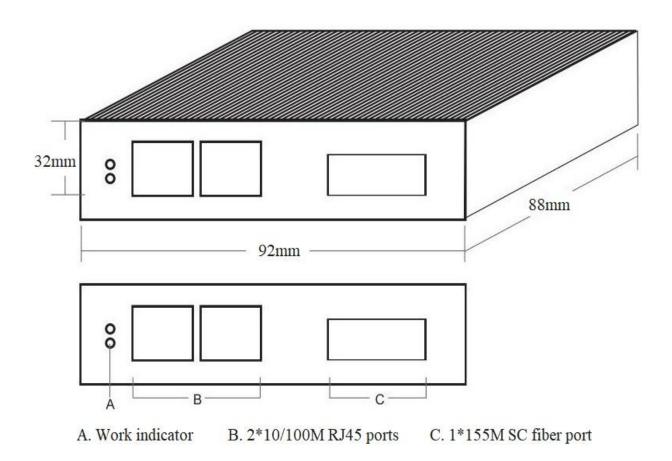
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Switching Capacity	1.6Gbps (non-blocking)		
Forwarding Rate	0.45Mpps		
@64byte			
MAC	1K		
Buffer Memory	768K		
Jumbo Frame	1536byte		
LED Indicator	Power: PWR(Green), Network: Link (Yellow), Fiber port: L/A (Green)		
Power Supply			
Working Voltage	DC12-48V, 5 Pin industrial phoenix terminal, support anti-reverse protection		
Power Consumption	Standby<3W, Full load<5W		
Power Supply	No, optional 24V/24W industrial power supply		
Physical Parameter			
Operation TEMP/	40 .7500 50/ 000/ DUN		
Humidity	-40~+75°C, 5%~90% RH Non condensing		
Storage TEMP/	40. LOE°C F0/. OF0/ DIL Non condensing		
Humidity	-40~+85°C, 5%~95% RH Non condensing		
Dimension (L*W*H)	92*88*32mm		
Net /Gross Weight	0.3kg / 0.4kg		
Installation	Desktop, 35mm DIN Rail		
Certification & Warrar	nty		
	Protection level: IP40		
	Lightning protection: 6KV 8/20us		
	IEC61000-4-3 (RS):10V/m (80~1000MHz)		
Lightning Protection	FCC Part 15/CISPR22 (EN55022): Class B		
	IEC61000-6-2 (Common Industrial Standard)		
	IEC61000-4-9 (Pulsed magnet field): 1000A/m		
	IEC61000-4-10 (Damped oscillation): 30A/m 1MHz		
	IEC61000-4-12/18 (Shockwave): CM2.5kV, DM1kV		
	IEC61000-4-4(EFT): Power cable: ±4kV, data cable: ±2kV		

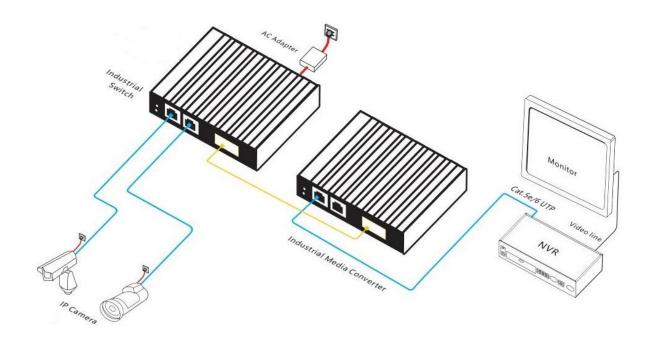
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	IEC61000-4-16 (Common-mode transmission): 30V, 300V, 1s
	IEC61000-4-2 (ESD): ±8kV contact discharge, ±15kV air discharge
	IEC61000-4-6 (Radio frequency transmission): 10V(150kHz~80MHz)
	IEC61000-4-8 (Power frequency magnetic field): 100A/m, 1000A/m, 1s-3s
	IEC61000-4-5 (Surge): Power cable: CM±4kV/ DM±2kV, data cable: ±4kV
Mechanical Properties	IEC60068-2-6 (Anti Vibration), IEC60068-2-27 (Anti Shock), IEC60068-2-32
	(Free Fall)
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B,
	RoHS
Warranty	5 years, lifelong maintenance.

DIMENSION



APPLICATION



ORDERING INFORMATION

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

ONV-IPS31032FS-B	Unmanaged industrial Ethernet fiber switch with 2*10/100M RJ45 ports and 1*155M uplink SC fiber port (1550nm /20km single-mode single fiber optical module). It can support dual DC power input and DIN rail mounting.	24V/24W
Note: The power supply is not included and needs to be purchased.		

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PACKING LIST

	Content	Qty	Unit
Packing List	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: AC100V~240V 50-60H, 0.35A Output Voltage: DC24V, 1.0A Operation Temperature: -40°C to +70°C	PC

RELATED PRODUCT

Model	Description	
	Unmanaged industrial Ethernet switch with 4*10/100M RJ45 ports and	
ONV-IPS31004F	1*155M uplink SC fiber port (1310nm /20km single-mode dual fiber optical	
	module). It can support dual DC power input and DIN rail mounting.	
	Unmanaged industrial Ethernet switch with 6*10/100M RJ45 ports and	
ONV-IPS31084F	1*155M uplink SC fiber port (1310nm /20km single-mode dual fiber optical	
	module). It can support dual DC 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 fiber ports. It can support dual DC power input and DIN rail mounting.

CONTACT US

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