Product Datasheet

8-port 10/100M industrial Ethernet Fiber Switch

(ONV-IPS31084F)



OVERVIEW

The ONV-IPS31084F is a 10/100M industrial Ethernet fiber switch independently developed by ONV. It has 6*10/100M adaptive RJ45 ports and 2*155M SC fiber ports. Each port can support full line-rate forwarding.

The ONV-IPS31084F has excellent industrial field environment adaptability (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-IPS31084F		
Interface Characteristics			
	2*155M uplink SC fiber ports (Data)		
Fixed Port	6*10/100Base-TX RJ45 ports (Data /Power)		
	2 sets V+, V- redundant DC power ports (5P Phoenix terminal)		
Ethernet Port	Port 1-6 can support 10/100Base-T(X) auto-sensing, full/ half duplex MDI/		
Ethernet Fort	MDI-X self-adaption		
Twisted Pair	10BASE-T: Cat3,4,5 UTP (≤100 meters)		
Transmission	100BASE-TX: Cat5e or later UTP (≤100 meters)		
	Default optical module is single-mode dual fiber 20km, SC port		
Optical Fiber Port	(optional single-mode single fiber and multi-mode dual fiber optical		
	module)		
Ontical Cable/ Distance	Multi-mode: 850nm/ 0-500m, 1310nm /0-2km, Single-mode: 1310nm/		
Optical Cable/ 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 802.3u 100Base-FX, IEEE 802.3x		
Forwarding Mode	Store and Forward (Full Wire Speed)		

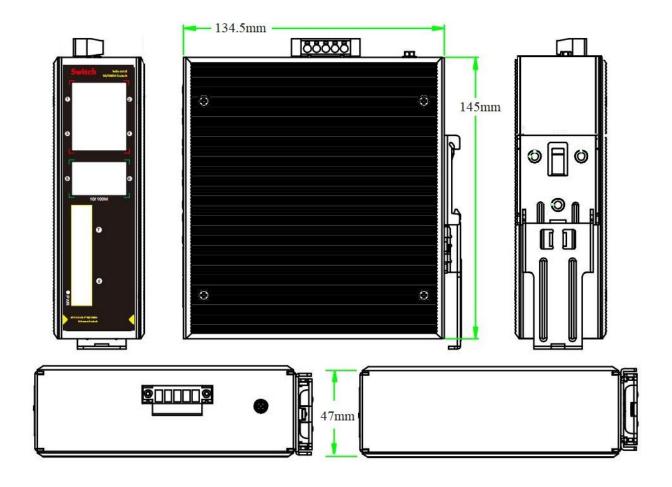
Use PoE,Choose ONV ▶▶▶		www.onvcom.com
Switching Capacity	1.6Gbps (non-blocking)	
Forwarding Rate	1.19Mpps	
@64byte		
MAC	1K	
Buffer Memory	768K	
Jumbo Frame	1632byte	
LED Indicator	Power: PWR (Green), Network: Link(Yellow), Fiber	port: L/A (Green)
Power Supply		
Working Voltage	DC12-48V, 5P industrial Phoenix terminal, support	anti-reverse protection.
Power Consumption	Standby<4W, Full load<8W	
Power Supply	No, optional 24V24W industrial power supply	
Physical Parameter		
Operation TEMP/	40 .0000 F0/ 000/ DUA	
Humidity	-40~+80°C, 5%~90% RH Non-condensing	
Storage TEMP/	-40~+85°C, 5%~95% RH Non-condensing	
Humidity	-40~+65 C, 5%~95% KH Non-condensing	
Dimension (L*W*H)	145*134.5*47mm	
Net /Gross Weight	0.7kg/ 0.9kg	
Installation	Desktop, 35mm DIN Rail	
Certification & Warranty		
	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	1
	IEC61000-4-4(EFT): Power cable: ±4kV, data cable	e: ±2kV



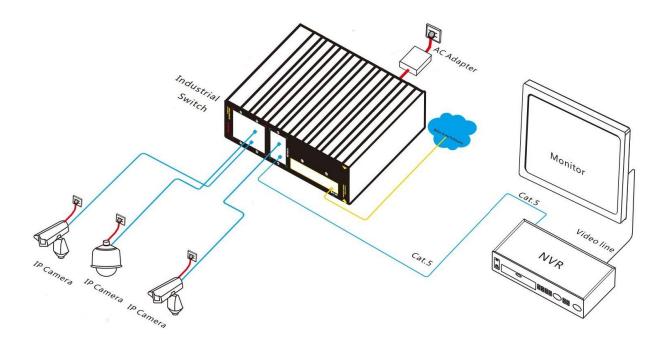
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	IEC61000-4-16 (Common-mode transmission): 30V, 300V, 1s
	IEC61000-4-2 (ESD): ±8kV contact discharge, ±15kV air discharge
	IEC61000-4-6 (Radio frequency transmission): 10V(150kHz~80MHz)
	IEC61000-4-8 (Power frequency magnetic field): 100A/m, 1000A/m, 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-IPS31084F	Unmanaged industrial Ethernet switch with 6*10/100M RJ45 ports and 2*155M uplink SC fiber ports (1310nm /20km single-mode dual fiber optical module). It can support dual DC power input and DIN rail mounting.	24V/24W
ONV-IPS31084F-M	Unmanaged industrial Ethernet switch with 6*10/100M RJ45 ports and 2*155M uplink SC fiber ports (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
ONV-IPS31084F-A	Unmanaged industrial Ethernet switch with 6*10/100M RJ45 ports and 2*155M uplink SC fiber ports (1310nm /20km single-mode single fiber optical module). It can	24V/24W

	support dual DC power input and DIN rail mounting.	
ONV-IPS31084F-B	Unmanaged industrial Ethernet switch with 6*10/100M	
	RJ45 ports and 2*155M uplink SC fiber ports (1550nm	241//2411/
	/20km single-mode single fiber optical module). It can	24V/24W
	support dual DC power input and DIN rail mounting.	
Note: The power supply is not included and needs to be purchased.		

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PACKING LIST

Packing List	Content	Qty	Unit
	8-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℃ to +70℃	PC

RELATED PRODUCT

Model	Description	
	Unmanaged industrial Ethernet switch with 4*10/100M RJ45 ports and	
ONIV 10024004E	1*155M uplink SC fiber port (1310nm /20km single-mode dual fiber	
ONV-IPS31004F	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.
	Unmanaged industrial Ethernet fiber switch with 2*10/100/1000M RJ45
ONV-IPS33032FS	ports and 1*1000M uplink SC fiber port. It can support dual DC power
	input and DIN rail mounting.
	Unmanaged industrial Ethernet fiber switch with 2*10/100/1000M RJ45
ONV-IPS33042F	ports and 2*1000M uplink SFP fiber ports. It can support dual DC power
	input and DIN rail mounting.
	Unmanaged industrial Ethernet fiber switch with 4*10/100/1000M RJ45
ONV-IPS33064F	ports and 2*1000M uplink SFP fiber ports. It can support dual DC power
	input and DIN rail mounting.
	Unmanaged industrial Ethernet fiber switch with 8*10/100/1000M RJ45
ONV-IPS33108F	ports and 2*1000M uplink SFP fiber ports. It can support dual DC power
	input and DIN rail mounting.
	Unmanaged industrial Ethernet fiber switch with 10*10/100/1000M RJ45
ONV-IPS33128F	ports and 2*1000M uplink SFP fiber ports. It can support dual DC power
	input and DIN rail mounting.

CONTACT US

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