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 RJ45 ports and 2*155M SC fiber ports, and each port can support full line-rate forwarding.

The ONV-IPS31084F industrial Ethernet switch has excellent industrial field environment adaptability (mechanical stability, climate adaptability, electromagnetic environment adaptability, etc.), protection level is IP40, it support for dual power supply, low power consumption, no fan cooling technology, MTBF is 35 years, 5 years warranty, unmanaged models, plug and play, no configuration, easy to use. 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.

FEATURE

■ 10/100M TP/SC port, fast Ethernet

- ♦ All series 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.
- ♦ Support non-blocking wire-speed forwarding.
- ♦ Support full-duplex based on IEEE802.3x and half-duplex based on backpressure.

■ Stable and reliable

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

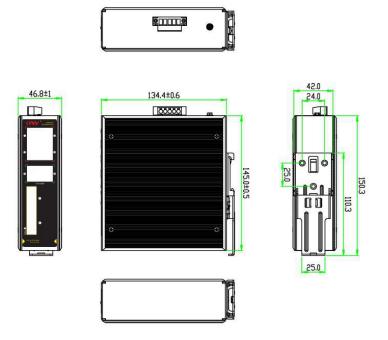
TECHNICAL SPECIFICATION

Model	ONV-IPS31084F	
Interface Characteristics		
	6*10/100Base-TX RJ45 ports(Data)	
Fixed Port	2*155M uplink SC slot ports(Data)	
	2 set of V+, V- redundant DC power interface (5P Phoenix terminal)	
Ethernet Port	Port 1-6 support 10/100Base-TX,auto-sensing, Full/half duplex	
Luiemet i oit	MDI/MDI-X self-adaption	
Twisted Pair	10BASE-T: Cat3,4,5 UTP(≤100 meter)	
Transmission	1000BASE-T: Cat5e or later UTP(≤100 meter)	
SC Slot Port	Default optical module is single-mode dual-fiber 20km, SC interface	
Optical Cable/	Multi mode: 850nm ,0 ~ 550M, 1310nm,0~2km	
Distance	single mode: 1310nm 0 ~ 40KM, 1550nm 0 ~ 120KM.	
Chip Parameter		
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T,	
TACEMOIN I TOLOCOI	IEEE802.3u 100Base-TX,IEEE802.3u 100Base-FX	

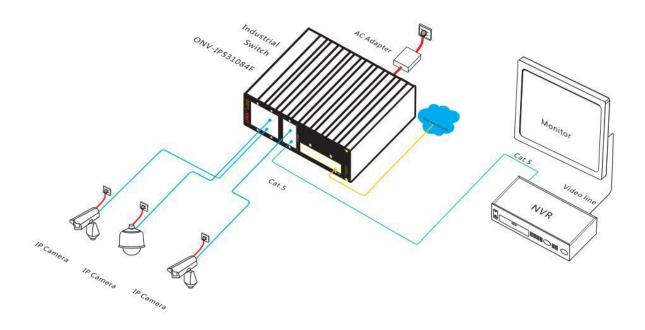
	IIEEE802.3x	
Forwarding Mode	Store and Forward(Full Wire Speed)	
Switching Capacity	1.6Gbps	
Forwarding	1.19Mpps	
Rate@64byte		
MAC	1K	
Buffer Memory	768K	
Jumbo Frame	1632byte	
LED Indicator	Power: PWR (green), network: Link(yellow), Fiber port :L/A (green)	
Power		
Power Consumption	Standby<4W, Full load<8W	
Power Supply	No, optional 24V24W industrial power supply	
Working Voltage	12-48VDC; 5P industrial Phoenix terminal, support anti-reverse	
Working Voltage	protection.	
Physical Parameter		
Operation TEMP /	-40~+80°C;5%~90% RH Non condensing	
Humidity	40 - 30 C,5 % CO % PAT PAON CONCONDING	
Storage TEMP /	-40~+85°C;5%~95% RH Non condensing	
Humidity	-40~+05 C,570~9570 Km Noti Condensing	
Dimension (L*W*H)	145*134.5*47.5mm	
Net /Gross Weight	<0.5kg / <0.7kg	
Installation	Desktop, DIN rail	
Certification & Warran	nty	
	Lightning protection: 6KV 8/20us; Protection level: IP40	
Lightning protection /	IEC61000-4-2(ESD):±8kV contact discharge,±15kV air discharge	
protection level	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 A
	IEC61000-6-2(Common Industrial Standard)
Maskaniaal	IEC60068-2-6 (anti vibration)
Mechanical	IEC60068-2-27 (anti shock)
Properties	IEC60068-2-32 (free fall)
Cortification	CCC;CE mark, commercial; CE/LVD EN60950;FCC Part 15 Class B;
Certification	RoHS;
Warranty	5 years, lifelong maintenance.

DIMENSION



APPLICATION



ORDERING INFORMATION

Model	Description	Recommended Power Supply
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 DC dual redundant power input and DIN rail mounting.	12W/24W
ONV-IPS31084F-M	Unmanaged industrial Ethernet fiber switch with 6*10/100M RJ45 ports and 2*155M SC ports. By default, the SC port 850nm/0.5km or 1310nm/2km multi-mode dual fiber module. It can support DC dual redundant power input and DIN rail mounting.	12W/24W
ONV-IPS31084F-A	Unmanaged industrial Ethernet fiber switch with	12W/24W

USE POE, CHOOSE	v.onvcom.com	
	6*10/100M RJ45 ports and 2*155M SC ports. By	
	default, the SC port 1310nm/20km single-mode	
	single-fiber module. It can support DC dual redundant	
	power input and DIN rail mounting.	
	Unmanaged industrial Ethernet fiber switch with	
	6*10/100M RJ45 ports and 2*155M SC ports. By	
ONV-IPS31084F-B	default, the SC port 1550nm/20km single-mode	12W/24W
	single-fiber module .lt can support DC dual redundant	
	power input and DIN rail mounting.	
Note: Industrial Ethernet switch does not match the power supply.		

PACKING LIST

	CONTENT	QTY	UNIT
PACKING LIST	8-port 10/100M industrial Ethernet fiber switch	1	SET
FACKING LIST	User Guide	1	PC
	Warranty Card	1	PC

POWER SUPPLY SELECTION TABLE

Product	Model	Description	Unit
12W DIN Rail	GWS-DP12-12	Din Rail type 12W single set of output power	PC

Industrial Power		supply;	
Supply		Input Voltage:AC 100V~240V 50-60H,0.35A	
		Output Voltage:DC 12V 1A	
		Operation Temperature:-40°C—+70°C	
		Din Rail type 12W single set of output power	
12W DIN Rail		supply;	
Industrial Power	GWS-DP12-24	Input Voltage:AC 100V~240V 50-60H,0.35A	PC
Supply		Output Voltage:DC 24V 0.5A	
		Operation Temperature:-40°C—+70°C	

RELATED PRODUCT

Model	Description	
	Unmanaged industrial Ethernet fiber switch with 1*10/100M RJ45 port	
ONV-IPS31021F	and 1*155M SC port. It can support DC dual redundant power input	
	and DIN rail mounting.	
	Unmanaged industrial Ethernet fiber switch with 2*10/100M RJ45 ports	
ONV-IPS31032F	and 1*155M SC port. It can support DC dual redundant power input	
	and DIN rail mounting.	
	Unmanaged industrial Ethernet fiber switch with 4*10/100M RJ45 ports	
ONV-IPS31064F	and 2*155M SC port. It can support DC dual redundant power input	
	and DIN rail mounting.	
	Unmanaged industrial Ethernet fiber switch with 8*10/100M RJ45 ports	
ONV-IPS31108FB	and 2*10/100/1000M RJ45 ports and 2*1000M SFP slot ports (combo	
ONV-1F 33 1 100FB	port). It can support DC dual redundant power input and DIN rail	
	mounting.	

CONTACT US



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