#### **Product Datasheet**

# **3-port Gigabit Industrial Ethernet Switch** (ONV-IPS33032F)



#### **OVERVIEW**

The ONV-IPS33032F is a gigabit industrial Ethernet fiber switch independently developed by ONV. It is designed to meet industrial fields and systems. It has 2\*10/100/1000Base-T adaptive RJ45 ports and 1\*1000Base-X SFP fiber port. Each port can support full line-rate forwarding.

The ONV-IPS33032F 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, electric power, mining, metallurgy and green energy construction to form a cost-effective and stable communication network. Unmanaged model, plug and play, no configuration, easy to use.

#### FEATURE

- Gigabit wire-speed access, uplink SFP port
- ♦ Support non-blocking wire-speed forwarding.

- ♦ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.
- A combination of Gigabit RJ45 ports and Gigabit SFP port to meet the networking requirements of various scenarios.

#### Stable and reliable

- $\diamond$  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-IPS33032F		
Interface Characteristics			
	2*10/100/1000Base-T RJ45 ports (Data)		
Fixed Port	1*1000Base-X uplink SFP fiber port (Data)		
	2 sets V+, V- redundant DC power port (5P phoenix terminal)		
Ethernet Port	Port 1-2 can support 10/100/1000Base-T(X) auto-sensing, full/ half duplex		
Ethemet Port	MDI/ MDI-X self-adaption		
Twisted Dair	10BASE-T: Cat3,4,5 UTP (≤100 meters)		
Twisted Pair	100BASE-TX: Cat5 or later UTP (≤100 meters)		
Transmission	1000BASE-T: Cat5e or later UTP (≤100 meters)		
Ontional Eiber Dort	Gigabit optical fiber port, default not include optical module (optional		
Optical Fiber Port	single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)		
Optical Cable/	Multi-mode: 850nm/ 0-550m, Single-mode: 1310nm/ 0-40km, 1550nm/		
Distance	0-120km		
Chip Parameter			
Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX,		
	IEEE 802.3ab 1000Base-TX, IEEE 802.3z 1000Base-X, IEEE 802.3x		

+86 755 33376606 ONV Optical Network Video Technologies (Shenzhen) Co., Ltd.

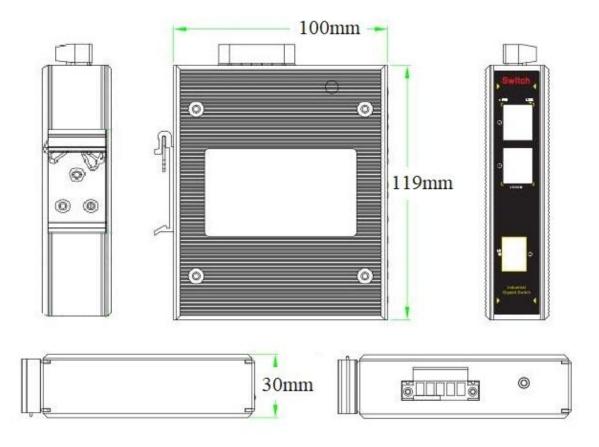
#### Use PoE, Choose ONV >>>

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Forwarding ModeStore and Forward (Full Wire Speed)Switching Capacity10Gbps (non-blocking)Forwarding Rate4.46Mpps@64byteMAC2KBuffer Memory2MJumbo Frame9.2KLED IndicatorPower: PWR (Green), Network: Link (Yellow)Power SupplyPower ConsumptionStandby<4W, Full load<6WOperating VoltageDC12-48V, 5P industrial Phoenix terminal, support anti-reverse protection.Power SupplyNo, optional 24V/24W industrial power supplyPhysical Parameter-40~+80°C, 5%~90% RH Non condensingMunidity119°100°30mmNet /Gross Weight0.4kg / 0.5kgInstallationDesktop, 35mm DIN RailCertification & WarrerProtection: 6KV 8/20us Lightning protection: 6KV 8/20us				
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Power ConsumptionStandby<4W, Full load<6WPoperating VoltageDC12-48V, 5P industrial Phoenix terminal, support anti-reverse protection.Power SupplyNo, optional 24V/24W industrial power supplyPhysical ParameterOperation TEMP / Humidity-40~+80°C, 5%~90% RH Non condensingStorage TEMP / Humidity-40~+85°C, 5%~95% RH Non condensingDimension (L*W*H)119*100*30mmNet /Gross Weight0.4kg / 0.5kgInstallationDesktop, 35mm DIN RailCertification & WarretProtection level: IP40 Lightning protection: 6KV 8/20us IEC61000-4-3 (RS):10V/m (80~1000MHz)	LED Indicator	Power: PWR (Green), Network: Link (Yellow)		
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Certification & Warranty   Protection level: IP40   Lightning protection: 6KV 8/20us   IEC61000-4-3 (RS):10V/m (80~1000MHz)	Net /Gross Weight	0.4kg / 0.5kg		
Protection level: IP40 Lightning protection: 6KV 8/20us IEC61000-4-3 (RS):10V/m (80~1000MHz)	Installation	Desktop, 35mm DIN Rail		
Lightning protection: 6KV 8/20us IEC61000-4-3 (RS):10V/m (80~1000MHz)	Certification & Warranty			
IEC61000-4-3 (RS):10V/m (80~1000MHz)		Protection level: IP40		
		Lightning protection: 6KV 8/20us		
Lightning Protection ECC Part 15/CISPR22 (EN55022): Class B		IEC61000-4-3 (RS):10V/m (80~1000MHz)		
	Lightning Protection	FCC Part 15/CISPR22 (EN55022): Class B		
IEC61000-6-2 (Common Industrial Standard)		IEC61000-6-2 (Common Industrial Standard)		
IEC61000-4-9 (Pulsed magnet field): 1000A/m		IEC61000-4-9 (Pulsed magnet field): 1000A/m		
IEC61000-4-10 (Damped oscillation): 30A/m 1MHz		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
	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	IEC60068-2-6 (Anti Vibration), IEC60068-2-27 (Anti Shock),
Properties	IEC60068-2-32 (Free Fall)
	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B,
Certification	RoHS
Warranty	5 years, lifelong maintenance.

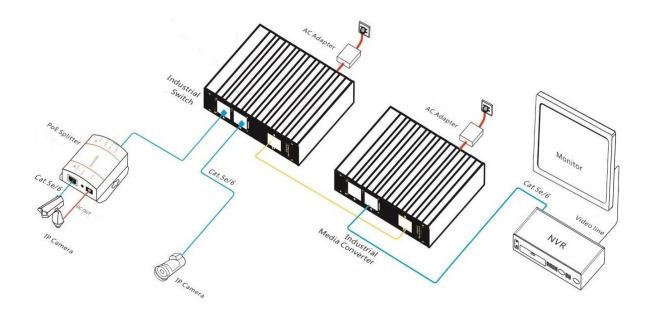
## DIMENSION







## **APPLICATION**



# **ORDERING INFORMATION**

Model	Description	Recommended
		Power Supply
ONV-IPS33032F	Unmanaged industrial Ethernet fiber switch with 2*10/100/1000M RJ45 ports and 1*1000M SFP fiber port. It can support dual DC power input and DIN rail mounting.	24V/24W
<b>Note:</b> The power supply and optical module are not included and need to be purchased.		

# **PACKING LIST**

	Content	Qty	Unit
Packing List	3-port gigabit industrial Ethernet switch	1	SET
	User Guide	1	PC
	Warranty Card	1	PC



# **OPTICAL MODULE**

Product	Model Description		
	2630-G	Industrial SFP optical module, 1.25G multi-mode dual fiber 850nm, transmission distance: 550m, LC interface, supports DDM function and hot plugging.	PC
	2632-G	Industrial SFP optical module, 1.25G single-mode dual fiber 1310nm, transmission distance: 20km, LC interface, supports DDM function and hot plugging.	PC
1.25G	2612-T-G	Industrial SFP optical module, 1.25G single-mode single fiber TX1310nm/ RX1550nm, transmission distance: 20km, LC interface, supports DDM function and hot plugging.	PC
Optical Module	2613-R-G	Industrial SFP optical module, 1.25G single-mode single fiber TX1550nm/ RX1310nm, transmission distance: 20km, LC interface, supports DDM function and hot plugging.	PC
	2612-T-G-SC	Industrial SFP optical module, 1.25G single-mode single fiber TX1310nm/ RX1550nm, transmission distance: 20km, SC interface, supports DDM function and hot plugging.	PC
	2613-R-G-SC	Industrial SFP optical module, 1.25G single-mode single fiber TX1550nm/ RX1310nm, transmission distance: 20km, SC interface, supports DDM function and hot plugging.	PC
Power Module	2633	1.25G SFP optical module transfers to 10/100/1000M RJ45 port.	PC

#### **POWER SUPPLY**

Product	Model	Description	Unit
24W DIN Rail		DIN Rail 24W single set of output power supply	
Industrial Power	GWS-DP24-24	Input Voltage: AC100V~240V 50-60H, 0.35A	PC

Supply

Output Voltage: DC24V, 1.0A Operation Temperature: -40℃ to +70℃

## **RELATED PRODUCT**

Model	Description		
	Unmanaged industrial Ethernet switch with 6*10/100/1000M RJ45 ports. It		
ONV-IPS33064	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.		
ONV-IPS33064	Unmanaged industrial Ethernet switch with 10*10/100/1000M RJ45 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**

ONV optical Network Video Technologies (Shenzhen) Co., Ltd. Tel: 0086-755-33376608 Fax: 0086-755-33376608 Email:onv@onv.com.cn Skype: onv@onv.com.cn WeChat ID: ONV-PoE-IoT Website: www.onvcom.com Headquarter Address: Room 1003, Block D, Terra Building, Futian District, Shenzhen Factory Address: Building B3, Galaxy Artificial Intelligence Industrial Park, No. 333,





Zhongkai 6th Road, Chenjiang Street, Zhongkai High-tech Zone, Huizhou