#### **Product Datasheet**

# **10-port Gigabit Managed Industrial Ethernet Switch**

#### (ONV-IPS33108FM)



#### **OVERVIEW**

1

The ONV-IPS33108FM is a Gigabit managed industrial Ethernet switch independently developed by ONV. It has 2\*100/1000Base-X SFP fiber ports and 8\*10/100/1000Base-T adaptive RJ45 ports. Each port can support wire-speed forwarding.

The ONV-IPS33108FM has L2+ network management functions, supports IPV4/IPV6 management, static routing forwarding, complete security protection mechanism, perfect ACL/QoS strategy, and rich VLAN functions for easy management and maintenance. Supports multiple network redundancy protocols STP/RSTP/MSTP (<50ms) and (ITU-T G.8032) ERPS (<20ms) to improve link backup and network reliability. When a unidirectional network fails, communication can be quickly restored to ensure uninterrupted communication of important applications. Port management, routing

address management, port flow control, VLAN division, IGMP, security policy, and other application business configurations can be performed through Web, CLI, SNMP, Telnet, and other network management methods according to application needs. It is excellent adaptability to industrial field environments (including mechanical stability, climate environment adaptability, electromagnetic environment adaptability, etc.). It is suitable for industrial scenarios such as intelligent transportation, rail transportation, power industry, mining, petroleum, shipping, metallurgy, and green energy construction to form an economical, efficient, stable, and reliable communication network.

#### FEATURE

- Gigabit access, uplink SFP fiber port
- ♦ Support non-blocking wire-speed forwarding.
- ♦ Support full-duplex based on IEEE 802.3x and half-duplex based on Backpressure.
- Support Gigabit RJ45 port and SFP fiber port combination, which enables users to flexibly build networking to meet the needs of various scenarios.

#### Strong business processing capability

- Support ERPS ring network and STP/RSTP/MSTP to eliminate layer 2 loops and realize link backup.
- Support IEEE802.1Q VLAN, Users can flexibly divide VLAN, Voice VLAN, and QinQ configuration according to their needs.
- Support static and dynamic aggregation to effectively increase link bandwidth, realize load balancing, link backup, and improve link reliability.
- Support QoS, port-based, 802.1P-based, and DSCP-based three priority modes and four queue scheduling algorithms: Equ, SP, WRR, and SP+WRR.
- Support ACL to filter data packets by configuring matching rule processing operations and time permissions, and provide flexible security access control policies.
- Support IGMP V1/V2/V3 multicast protocol, IGMP Snooping meets multi-terminal high-definition video surveillance and video conference access requirements.

#### Security

- ♦ Support port isolation and port broadcast storm suppression.
- Support IP+MAC+port+VLAN quadruple flexible combination binding function.
- Support 802.1X authentication to provide authentication functions for LAN computers, and control the authorization status of controlled ports according to the authentication results.

#### Stable and reliable

- $\diamond$  CCC, CE, FCC, RoHS.
- The user-friendly panel can show the device status through the LED indicator of PWR, Link, L/A, and SYS.
- Low power consumption, no fan, Aluminum alloy housing, and excellent heat dissipation to ensure the stable operation of the switch.

#### Easy O&M management

- Support CPU monitoring, memory monitoring, Ping detection, and cable length detection.
- HTTPS, SSLV3, SSHV1/V2, and other encryption methods are more secure in management.
- RMON, system log, and port traffic statistics are convenient for network optimization and transformation.
- LLDP is convenient for the network management system to query and judge the communication status of the link.
- Support diverse management and maintenance methods such as Web network management, CLI command line (Console, Telnet), SNMP (V1/V2/V3), Telnet, etc.

# **TECHNICAL SPECIFICATION**

Model	ONV-IPS33108FM	
Interface Characteristics		
	1*RS232 Console port (115200,N,8,1)	
	8*10/100/1000Base-T RJ45 ports (Data)	
Fixed Port	2*100/1000Base-X uplink SFP fiber ports (Data)	
	2 sets V+, V- redundant DC power ports (5P Phoenix terminal)	
Ethernet Port	Port 1-8 can support 10/100/1000Base-T auto-sensing, full/ half duplex	
Ethemet Port	MDI/ MDI-X self-adaption	
Twisted Pair	10BASE-T: Cat3,4,5 UTP (≤100 meters)	
Transmission	100BASE-TX: Cat5 or later UTP (≤100 meters)	
Transmission	1000BASE-T: Cat5e or later UTP (≤100 meters)	
Ontinal Eibar Dart	Gigabit optical fiber port, default no 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 Management		
Туре	L2+	
Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T,IEEE 802.3u 100Base-TX,	
Network Frotocol	IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X, IEEE 802.3x	
Forwarding Mode	Store and Forward (Full Wire Speed)	
Switching Capacity	20Gbps (non-blocking)	
Forwarding Rate	14 00Mmma	
@64byte	14.88Mpps	
CPU(Hz) 416M		
DRAM	1G	
FLASH	128M	

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Buffer Memory4MJumbo Frame9.6KLeD IndicatorPower: PWR (Yellow), System: SYS (Yellow), Network: Link (Yellow), File prt: L/A(Green)Reset SwitchYes, Press and hold the reset switch for 10s and release it to restore the factory settingsPower SupplyVes, Press and hold the reset switch for 10s and release it to restore the factory settingsPower SupplyStandby<8W, Full load<12WPower ConsumptionStandby<8W, Full load<12WPower SupplyOC12-48U, SP industrial phoenix terminal, support anti-reverse protectionPower SupplyNo, optional 24V/24W industrial power supplyPower SupplyNo, optional 24V/24W industrial power supplyPower SupplyNo, optional 24V/24W industrial power supplyPower Supply-0~+80°C, 5%~90% RH Non condensing -0~+80°C, 5%~90% RH Non condensingStorage Temp/ Humidity-0++80°C, 5%~90% RH Non condensingNet /Gross Weight0.5148*54mmNet /Gross Weight0.5148*54mmNet /Gross Weight0.5148*54mmInstallation0.95kg/ 1.2kgInstallation0.95kg/ 1.2kgInstallation0.95kg/ 1.2kgLightning protection: 6KV 8/20us Ic661000-4:3 (RS): 10V/m (80~1000MHz)InstallationForection level: IP40 Lightning protection: 6KV 8/20us Ic661000-4:3 (RS): 10V/m (80~1000MHz)InstallationIc661000-6.2 (Common Industrial Standard)InstallationIc661000-6.2 (Common Industrial Standard)InstallationIc661000-4.9 (Pulsed magnet field): 1000A/m Ic661000-4.9 (Pulsed magnet field): 1000A/m	MAC	8K	
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		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		IEC61000-4-12/18 (Shockwave): CM 2.5kV, DM 1kV	
IEC61000-4-4(EFT): Power cable: ±4kV; data cable: ±2kV		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	
	IEC60068-2-6 (Anti Vibration), IEC60068-2-32 (Free Fall), IEC60068-2-27	
Mechanical Properties	(Anti Shock)	
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B,	
Certification	RoHS	
Warranty	5 years, lifelong maintenance.	
Network Management Feature		
	Port green Ethernet Energy-saving setting	
	Broadcast storm control based on port speed	
Interface	IEEE 802.3x flow control (Full duplex), Port temperature protection setting	
	Limit the speed of the message traffic at the inbound and outbound ports,	
	with the mini granularity of 64Kbps	
	ARP protocol max 1024 entries	
	Static routing/ default routing max 128 entries	
L3 Feature	Support L2+ network management, IPV4/ IPV6 management	
	Support L3 routing and forwarding, and support communication between	
	different network segments and different VLAN	
	Port configuration of Access, Trunk, Hybrid	
VLAN	VLAN based on MAC, Voice VLAN, QinQ configuration	
	VLAN based on the protocol, 4K VLAN based on port, IEEE802.1q	
Port Aggregation	LACP, Static aggregation, Max 5 aggregation groups and 8 ports per group.	
Spanning Tree	STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)	
Ding Naturals Distance	G.8032 (ERPS), 255 Ring at most, Max 1024 devices per ring, Recovery	
Ring Network Protocol	time less than 20ms	
Multicast	MLD Snooping, Multicast VLAN, IGMP Snooping v1/v2/v3, Max 1024	

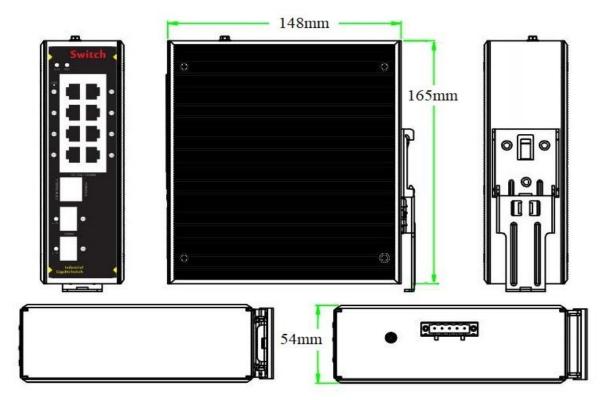
	multicast groups, Fast log out
Port Mirroring	Bidirectional data mirroring based on port
QoS	Flow-based redirection, Flow-based rate limiting
	Flow-based packet filtering, Priority Mark/Remark
	8*Output queues of each port, 802.1p/DSCP priority mapping
	Diff-Serv QoS, Queue Scheduling Algorithm (SP, WRR, SP+WRR)
	Deliver ACL based on port and VLAN.
	The L2-L4 packet filtering function can match the first 80 bytes of the
ACL	message and provide ACL definition based on source MAC address,
	destination MAC address, source IP address, destination IP address, IP
	protocol type, TCP/UDP port, TCP/UDP port range, VLAN, etc.
	MAC learning limit, Mac black holes
	IEEE802.1X & MAC address authentication
	Broadcast storm control, Backup for host datum
Security	SSH 2.0, SSL, Port isolation, ARP message speed limit
	User hierarchical management and password protection
	IP-MAC-VLAN-Port binding, ARP inspection, Anti-DoS attack
	AAA & RADIUS & TACACS+ certification, IP source protection
DHCP	DHCP Client, DHCP Snooping, DHCP Server, DHCP Relay
	ONV-NMS platform cluster management (LLDP+SNMP)
	CPU real-time utilization status view, SNMP V1/V2/V3
	Console/ AUX Modem/ Telnet/ SSH2.0, CLI configuration
Management	Cable length status detection, NTP clock, One-key recovery, LLDP
	FTP, TFTP, Xmodem, SFTP file upload and download management
	Ping detection, System work log, Web network management (HTTPS)
	Web browser: Mozilla Firefox 2.5 or higher, Google Chrome V42 or higher,
	Cat5 and above Ethernet cable
System	TCP/IP, network adapter, and network operating system (such as Microsoft
	Windows, Linux, Mac OS X) installed on each computer in the network Cat5

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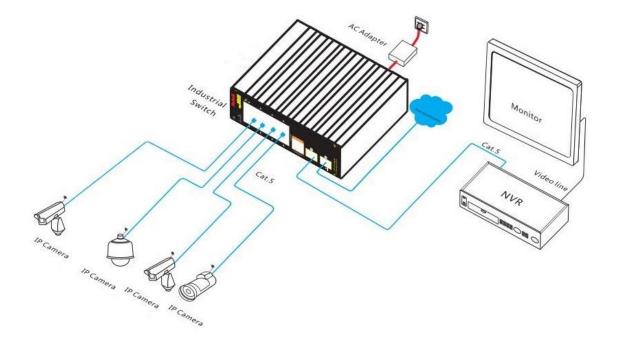


and above Ethernet cable

### DIMENSION



## **APPLICATION**





### **ORDERING INFORMATION**

Model	Description	Recommended power supply
ONV-IPS33108FM	ONV-IPS33108FM L2+ managed industrial Ethernet fiber switch with 8*10/100/1000M RJ45 ports and 2*100/1000M uplink SFP fiber ports. It can support dual DC power supply input and DIN Rail mounting.	
Note: The entired medule and newer sumply are not included and need to be nurshaped		

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

### **PACKING LIST**

	Content	Qty	Unit
Packing List	10-port gigabit managed industrial Ethernet switch	1	SET
	RJ45-DB9 Adapter Cable	1	PC
	User Guide	1	PC
	Warranty Card and Certificate of Conformity	1	PC

### **OPTICAL MODULE**

Product	Model	Description	Unit
	2630-G	Industrial SFP optical module, 1.25G multi-mode dual fiber 850nm, transmission distance: 550m, LC interface. supports	PC
		DDM function and hot plugging.	
1.25G		Industrial SFP optical module, 1.25G single-mode dual fiber	
Optical	2632-G	1310nm, transmission distance: 20km, LC interface.	PC
Module		supports DDM function and hot plugging.	
		Industrial SFP optical module, 1.25G single-mode single	
	2612-T-G	fiber TX1310nm/ RX1550nm, transmission distance: 20km,	PC
		LC interface. supports DDM function and hot plugging.	
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	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	GWS-DP24-24	Input Voltage: AC100V~240V 50-60H, 0.35A	PC
	GW3-DF24-24	Output Voltage: DC24V, 1.0A	FC
Power Supply		Operation Temperature: -40 $^\circ\!\!\mathbb{C}$ to +70 $^\circ\!\!\mathbb{C}$	

# **RELATED PRODUCT**

Model	Description	
	L2+ managed industrial fiber switch with 4*10/100/1000M RJ45	
ONV-IPS33064FM	ports and 2*100/1000M uplink SFP fiber ports. It can support dual	
	DC power supply input and DIN Rail mounting.	
	L2+ managed industrial fiber switch with 4*10/100/1000M RJ45	
ONV-IPS33084FM	ports and 4*100/1000M uplink SFP fiber ports. It can support dual	
	DC power supply input and DIN Rail mounting.	
ONV-IPS33148FM	L2+ managed industrial fiber switch with 10*10/100/1000M RJ45	
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	ports and 4*100/1000M uplink SFP fiber ports. It can support dual
	DC power supply input and DIN Rail mounting.
	L2+ managed industrial fiber switch with 8*10/100/1000M RJ45
ONV-IPS33168FM	ports and 8*100/1000M uplink SFP fiber ports. It can support dual
	DC power supply input and DIN Rail mounting.
	L2+ managed industrial fiber switch with 12*10/100/1000M RJ45
ONV-IPS33168FM-4GF	ports and 4*100/1000M uplink SFP fiber ports. It can support dual
	DC power supply input and DIN Rail mounting.

### **CONTACT US**

ONV optical Network Video Technologies (Shenzhen) Co., Ltd. Tel: 0086-755-33376608 Fax: 0086-755-33376608 WeChat: ONV-PoE-IoT Email: onv@onv.com.cn Skype: onv@onv.com.cn 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

