Product Datasheet

14-port Gigabit Managed Industrial Ethernet Switch

(ONV-IPS33148FM)



OVERVIEW

The ONV-IPS33148FM is a Gigabit managed industrial Ethernet fiber switch independently developed by ONV. It has 10*10/100/1000Base-T adaptive RJ45 ports and 4*100/1000Base-X uplink SFP fiber ports. Each port can support wire-speed forwarding.

The ONV-IPS33148FM has 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

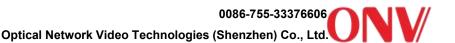
- Support port isolation and port broadcast storm suppression.
- ♦ Support IP+MAC+port+VLAN quadruple flexible combination binding function.
- Support 802.1X authentication to provide authentication functions for LAN computers, and control the authorization status of controlled ports according to the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

■ Stable and reliable

- ♦ 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-IPS33148FM		
Interface Characteristics			
	Power-off alarm switch (FAULT)		
	1*RS232 Console port (115200,N,8,1)		
Fixed Port	10*10/100/1000Base-T RJ45 ports (Data)		
	4*100/1000Base-X uplink SFP fiber ports (Data)		
	2 sets V+, V- redundant DC power port (6P Phoenix terminal)		
Ethernet Port	Port 1-10 can support 10/100/1000Base-T auto-sensing, full/ half duplex		
Ellielliel Folt	MDI/ MDI-X self-adaption		
Twisted Pair	10BASE-T: Cat3,4,5 UTP (≤100 meters)		
Transmission	100BASE-TX: Cat5 or later UTP (≤100 meters)		
Hallstillssion	1000BASE-T: Cat5e or later UTP (≤100 meters)		
Optical Fiber Port	Gigabit optical fiber interface, default matching optical module (optional		
Optical Fiber Fort	single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)		
Optical Fiber Port	Support Turbo overclocking 2.5G optical module expansion and ring		
Expansion	network		
Optical Cable/	Multi-mode: 850nm/ 0-550m, Single-mode: 1310nm/ 0-40km, 1550nm/		
Distance	0-120km		
Chip Parameter			
Network	L2+		
Management Type	LZT		
Notwork Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX,		
Network Protocol	IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X, IEEE 802.3x		
Forwarding Mode	Store and Forward (Full Wire Speed)		
Switching Capacity	52Gbps (non-blocking)		
Forwarding Rate	20.92Mppa		
@64byte	20.83Mpps		

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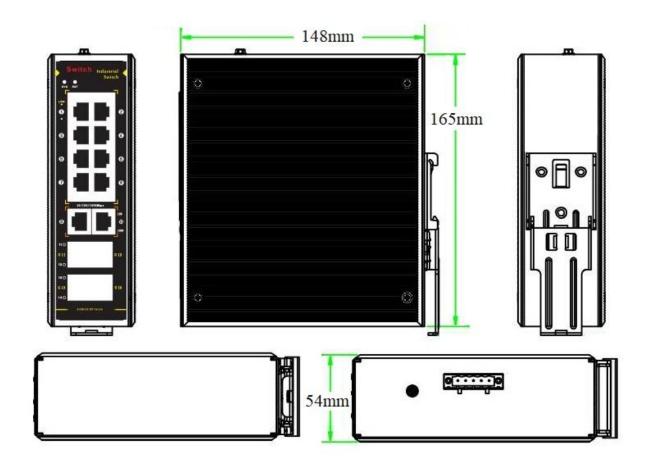
CPU(Hz)	416M	
DRAM	1G	
FLASH	128M	
MAC	8K	
Buffer Memory	6M	
Jumbo Frame	9.6K	
LED Indicator	Power: PWR (Green), System: SYS (Green), Network: Link (Yellow), Fiber	
LED Indicator	port: L/A (Green)	
Reset Switch	Yes, Press and hold the reset switch for 10s and release it to restore the	
Reset Switch	factory settings	
Power Supply		
Power Consumption	Standby<10W, Full load<15W	
Working Voltage	DC12-48V, 6P industrial Phoenix terminal, support anti-reverse protection.	
Power Supply	No, optional 24V/24W industrial power supply	
Physical Parameter		
Operation Temp/	-40~+80°C, 5%~90% RH Non condensing	
Humidity	-40 100 C, 370 3070 Ki i Non condensing	
Storage Temp/	-40~+85°C, 5%~95% RH Non condensing	
Humidity	-40 .00 G, 670 3070 tx r tvori condensing	
Dimension (L*W*H)	165*148*54mm	
Net /Gross Weight	1.1kg/ 1.3kg	
Installation	Desktop, 35mm DIN Rail	
Certification & Warranty		
Lightning Protection	Protection level: IP40	
	Lightning protection: 6KV 8/20us	
	IEC61000-4-3 (RS):10V/m (80~1000MHz)	
Eightining i Toteotion	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): CM 2.5kV, DM 1kV		
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		
IEC60068-2-6 (Anti Vibration), IEC60068-2-32 (Free Fall), IEC60068-2-27		
(Anti Shock)		
CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B,		
RoHS		
5 years, lifelong maintenance.		
Network Management Feature		
Port temperature protection settings		
IEEE 802.3x flow control (Full duplex)		
Broadcast storm suppression based on port rate		
Port EEE Green Ethernet energy-saving configuration		
Limit the speed of the message traffic at the inbound and outbound ports		
mini granularity is 64Kbps		
ARP protocol, max 1024 entries		
Static route/default route, max 128 entries		
L2+ network management function, IPV4/IPV6 dual-stack management		
L3 routing forwarding, communication between different network segments		
and different VLAN		
Port configuration of Access, Trunk, Hybrid.		
VLAN based on MAC, VLAN based on the protocol		
(4K) VLAN based on port, IEEE802.1q, Voice VLAN, QinQ configuration		
LACP, Static aggregation, Max 7 aggregation groups and max 8 ports per		

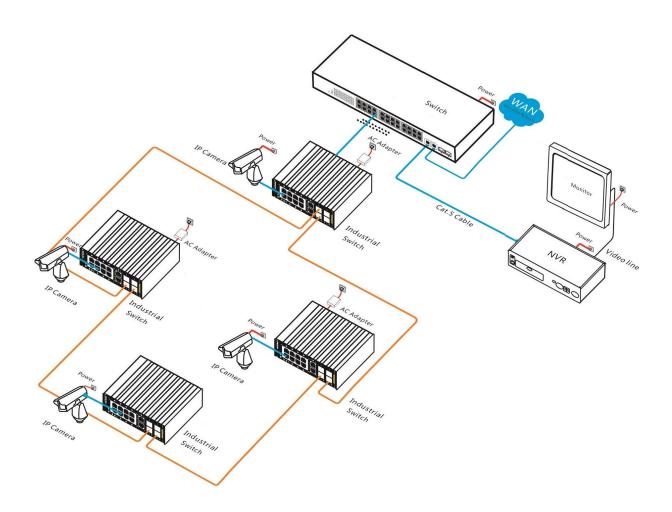
Spanning Tree STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s) Industrial Ring G.8032 (ERPS), ring network recovery time less than 20ms, 255 Ring at Metwork Protocol most, Max 1024 devices per ring. MLD Snooping, Multicast VLAN, Fast log out, IGMP Snooping v1/v2/v3 and 1024 multicast groups at most Port Mirroring Bidirectional data mirroring based on port Queue Scheduling Algorithm (SP, WRR, SP+WRR) Flow-based Rate Limiting, Flow-based redirection Flow-based Packet Filtering, 8*Output queues of each port 802.1p/ DSCP priority mapping, Diff-Serv QoS, Priority Mark/ Remark ACL distribution based on port and VLAN L2-L4 packet filtering function, matching the first 80 bytes message, and provides ACL definitions 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. Port-based IEEE802.1X authentication SSL guarantees data transmission security Quad binding function of IP+MAC+VLAN+ports Port isolation, ARP message speed limit function MAC address learning limit, MAC address black hole Anti DoS attack, Port broadcast message suppression Hierarchical user management and password protection		group	
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MAC address learning limit, MAC address black hole Security Anti DoS attack, Port broadcast message suppression Hierarchical user management and password protection		Quad binding function of IP+MAC+VLAN+ports	
Security Anti DoS attack, Port broadcast message suppression Hierarchical user management and password protection		Port isolation, ARP message speed limit function	
Anti DoS attack, Port broadcast message suppression Hierarchical user management and password protection	Coough	MAC address learning limit, MAC address black hole	
	Security	Anti DoS attack, Port broadcast message suppression	
SSH 2.0 provides a coours energeted shappel for user legin		Hierarchical user management and password protection	
Son 2.0 provides a secure encrypted channel for user login		SSH 2.0 provides a secure encrypted channel for user login	
Host data backup mechanism, ARP intrusion detection function		Host data backup mechanism, ARP intrusion detection function	
IP source address protection, AAA & RADIUS & TACACS+ certification		IP source address protection, AAA & RADIUS & TACACS+ certification	
DHCP Client, DHCP Snooping, DHCP Server, DHCP Relay	DHCP	DHCP Client, DHCP Snooping, DHCP Server, DHCP Relay	
Web network management (https)	Management	Web network management (https)	
Management Link Layer Discovery Protocol(LLDP)	wanagement	Link Layer Discovery Protocol(LLDP)	

	Viewing CPU Instant Utilization Status
	NTP clock, One click restore, SNMP V1/V2/V3
	Cable status check, Ping detection, System work log
	ONV-NMS platform cluster management (LLDP+SNMP)
	Console/AUX Modem/Telnet/CLI command line configuration
	FTP, TFTP, Xmodem, SFTP file upload and download management
	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
	and above Ethernet cable

DIMENSION



APPLICATION



ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS33148FM	L2+ managed industrial Ethernet fiber switch with 10*10/100/1000M RJ45 ports and 4*100/1000M uplink SFP fiber ports. It can support dual DC power input and DIN Rail mounting.	24W

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

PACKING LIST

	Content	Qty	Unit
	14-port gigabit managed industrial Ethernet switch	1	SET
Packing List	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. support DDM function and hot plugging.	PC
	2632-G	Industrial SFP optical module, 1.25G single-mode dual fiber 1310nm, transmission distance: 20km, LC interface. support DDM function and hot plugging.	PC
1.25G Optical	2612-T-G	Industrial SFP optical module, 1.25G single-mode single fiber TX1310nm/ RX1550nm, transmission distance: 20km, LC interface. support DDM function and hot plugging.	PC
Module		Industrial SFP optical module, 1.25G single-mode single fiber TX1550nm/ RX1310nm, transmission distance: 20km, LC interface. support DDM function and hot plugging.	PC
	2612-T-SC-G	Industrial SFP optical module, 1.25G single-mode single fiber TX1310nm/ RX1550nm, transmission distance: 20km, SC interface. support DDM function and hot plugging.	PC
	2613-R-SC-G	Industrial SFP optical module, 1.25G single-mode single fiber TX1550nm/ RX1310nm, transmission distance: 20km, SC interface. support DDM function and hot plugging.	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		
	L2+ managed industrial fiber switch with 4*10/100/1000M RJ45 ports		
ONV-IPS33064FM	and 2*100/1000M uplink SFP fiber ports. It can support dual DC		
	power input and DIN Rail mounting.		
	L2+ managed industrial Ethernet fiber switch with 4*10/100/1000M		
ONV-IPS33084FM	RJ45 ports and 4*100/1000M uplink SFP fiber ports. It can support		
	dual DC power input and DIN Rail mounting.		
	L2+ managed industrial fiber switch with 8*10/100/1000M RJ45 ports		
ONV-IPS33108FM	and 2*100/1000M uplink SFP fiber ports. It can support dual DC		
	power input and DIN Rail mounting.		
	L2+ managed industrial fiber switch with 8*10/100/1000M RJ45 ports		
ONV-IPS33168FM	and 8*100/1000M uplink SFP fiber ports. It can support dual DC		
	power 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 input and DIN Rail mounting.		
	L2+ managed industrial Ethernet fiber switch with 12*10/100/1000M		
ONV-IPS36168FM	RJ45 ports and 4*1/10G uplink SFP+ fiber ports. It can support dual		
	DC power input and DIN Rail mounting.		

CONTACT US

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