Product Datasheet

12-port Full Gigabit Managed Industrial PoE Switch

(ONV-IPS53128PFM)



OVERVIEW

The ONV-IPS53128PFM is a Gigabit L2+ managed industrial PoE fiber switch independently developed by ONV. It has 8*10/100/1000Base-T adaptive RJ45 ports and 4*100/1000Base-X uplink SFP fiber ports. Port 1-8 can support IEEE 802.3 af/at PoE standard and single-port PoE power up to 30W. As a PoE power supply device, it can automatically detect and recognize the power-receiving equipment that meets the standard and supply power through the network cable. It can supply power to POE terminal equipment such as wireless AP, IP cameras, VoIP phones, industrial sensors through a network cable, and meet the network environment that needs a high-density PoE power supply. It is suitable for intelligent transportation, rail transit, electric power, mining, metallurgy, and green energy, industrial scenes such as construction setting up a cost-effective and stable communication network.

The ONV-IPS53128PFM has L2+ full network management function, supports IPV4/IPV6 management, static route forwarding, complete security protection mechanism, complete

ACL/QoS policy, and rich VLAN functions, and is easy to manage and maintain. 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 one-way network fails, communication can be quickly restored to ensure important uninterrupted communication for applications. According to the actual application needs, PoE power management, port management, routing address management, port flow control, VLAN division, IGMP, security policy, and other application services are configured through network management methods such as Web, CLI, SNMP, Telnet, etc.

FEATURE

■ Gigabit access, SFP fiber port uplink

- 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 Gigabit SFP port combination, which enables users to flexibly build networking to meet the needs of various scenarios.

■ Smart PoE power supply

- ◇ PoE network management, realize PoE port power allocation, priority setting, port power status viewing, time scheduling, etc.
- Comply with IEEE 802.3 af/at PoE standard, automatically identify PoE devices for power supply, and not damage non-PoE devices.
- The PoE port supports the priority mechanism. When the remaining power is insufficient, the power of the high-priority port is given priority to avoid overloading of the device.
- 8*10/100/1000Base-T RJ45 ports support PoE power, meeting the PoE power
 requirements of security monitoring, industrial automation systems, wireless coverage
 and other scenarios.

Strong business processing capability

♦ Support Industrial 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

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

■ Stable and reliable

- ♦ CCC, CE, FCC, and RoHS.
- ♦ The user-friendly panel can show the device status through the LED indicator of PWR, SYS, Link, L/A, and PoE.
- ♦ Low power consumption, no fan, aluminum shell, 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-IPS53128PFM				
Interface Characteri	Interface Characteristics				
	1*RS232 console port (115200, N, 8,1)				
	Power failure alarm switch port (FAULT)				
Fixed Port	8*10/100/1000Base-T PoE ports (Data/ Power)				
	4*100/1000Base-X uplink SFP fiber ports (Data)				
	2*DC48-57V input ports (supports reverse connection protection)				
Ethernet Port	Port 1-8 support 10/100/1000Base-T(X) auto-sensing, full/ half duplex				
Linemetroit	MDI/ MDI-X self-adaption				
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP (≤100 meters)				
	100BASE-TX: Cat5 or later UTP (≤100 meters)				
	1000BASE-T: Cat5e/6 or later UTP (≤100 meters)				
Optical Fiber Port	Default no include optical module (optional single-mode/ multi-mode,				
Optical Fibel Fort	single fiber/ dual fiber optical module. LC)				
Optical Port	Turbo overclocking 2.5G optical module expansion and ring network				
Expansion					
Optical Cable/	Multi-mode: 850nm/ 0-500m (1G)				
Distance	Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km				
Chip Parameter					
Network	L2+				

Management Type				
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX			
Network Protocol	IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x			
Forwarding Mode	Store and Forward (Full Wire Speed)			
Switching Capacity	128Gbps			
Forwarding	17.86Mpps			
Rate@64byte	17.00Ινίμμο			
CPU	800MHz			
DRAM	1Gb			
FLASH	128Mb			
MAC	16K			
Buffer Memory	12Mb			
Jumbo Frame	12KB			
1501 " (System: SYS (Green), Network: Link (Yellow), PoE: PoE (Green), Fiber			
LED Indicator	port: L/A (Green)			
Reset Switch	Yes, press and hold the switch for 10 seconds and release it to restore the			
Neset Switch	factory settings			
PoE & Power Supply	/			
PoE Port	Port 1-8			
PoE Management	Port PoE real-time load power display			
TOL Management	Port PoE output on/off, PoE work and time scheduling			
Power Supply Pin	1/2(+) 3/6 (-)			
Max Power Per Port	30W, IEEE 802.3 af/at			
Power Consumption	Standby<13W, Full load af<120W, at<240W			
Working Voltago	DC48-57V, 6 Pin industrial Phoenix terminal, support anti-reverse			
Working Voltage	protection.			
Power Supply	No, optional 48V/120W or 48V/240W industrial power supply			
Physical Parameter				
Operation TEMP	-40~+75°C, 5%~90% RH Non condensing			

/Humidity			
Storage TEMP	40-190°C 50/-050/ PH Non condensing		
/Humidity	-40~+80°C, 5%~95% RH Non condensing		
Dimension (L*W*H)	166*150*75mm		
Net /Gross Weight	1.8kg / 2.1kg		
Installation	Desktop, 35mm DIN Rail		

Certification & Warranty

	Protection level: IP40	
	Lightning protection: 6KV 8/20us	
	IEC61000-4-3 (RS):10V/m (80~1000MHz)	
	FCC Part 15/CISPR22 (EN55022): Class B	
	IEC61000-6-2 (Common Industrial Standard)	
	IEC61000-4-9 (Pulsed magnet field): 1000A/m	
Lightning Protection	IEC61000-4-10 (Damped oscillation): 30A/m, 1MHz	
Lightning i Totection	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	
Mechanical	IEC60068-2-6 (Anti Vibration), IEC60068-2-32 (Free Fall), IEC60068-2-27	
Properties	(Anti Shock)	
Contification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B,	
Certification	RoHS	
Warranty	5 years, lifelong maintenance.	
Network Management Feature		
Interface	IEEE802.3x flow control (Full duplex)	
Interface	Port exception protection mechanism	

	Port real-time flow management (Flow Interval)			
	Broadcast storm suppression based on port rate			
	Jumbo frame configuration, the largest 12000byte			
	Optical port SFP module DDMI real-time digital diagnosis			
	Port EEE Green Ethernet Energy-Saving configuration and status view			
	Limit the rate of incoming and outgoing packet traffic, with mini granularity			
	of 16Kbps and max of 1Gbps			
	ARP protocol, max 1024 entries			
Layer 3 Features	IPv4/IPv6 static route, max 128 entries			
	L2+ network management function, dual-stack IPv4/IPv6 management			
	VLAN based on MAC, VLAN based on the protocol			
VLAN	Port configuration of Access, Trunk, Hybrid. GVRP VLAN protocol			
	(4K) VLAN based on port, IEEE802.1q, Voice VLAN, QinQ configuration			
Port Aggregation	LACP, Static aggregation			
Fort Aggregation	Max 6 aggregation groups and max 8 ports per group.			
Spanning Tree	STP BPDU Guard, BPDU filtering and BPDU forwarding			
Spanning Tree	STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)			
ERPS Ring Network	Support ERPS ring network, ring network self-healing time is less than			
Litt o faing Network	20ms, ITU-T G.8032			
	MLD Snooping, Multicast VLAN			
Multicast	User quick log out, MVR (Multicast VLAN Registration)			
	IGMP Snooping v1/v2/v3 and 1024 multicast groups at most			
Mirroring	Bidirectional traffic mirroring for basic ports			
wiiironnig	one-to-multiple mirroring, supports up to 4 port sessions			
	Queue Scheduling Algorithm (SP, WRR, SP+WRR)			
QoS	Flow-based Rate Limiting, Stream based redirection			
200	Flow-based Packet Filtering, 8*Output queues of each port			
	802.1p/ DSCP priority mapping, Diff-Serv QoS, Priority Mark/ Remark			
ACL	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 MAC address learning limit, MAC address black hole Anti DoS attack, Port broadcast message suppression IP Source Guard function, AAA&RADIUS certification Hierarchical user management and password protection SSH 2.0 provides a secure encrypted channel for user login Host data backup mechanism, ARP intrusion detection function Port isolation, IP Source Guard, ARP message speed limit function DHCP DHCP Client, DHCP Snooping, DHCP Server Web network management (https) 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 TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, Mac OS X) installed on each computer in the network					
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Web browser: Mozilla Firefox 2.5 or higher, Google Chrome V42 or higher, Cat5 and above Ethernet cable TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, Mac OS X) installed on each computer in the network		Console/ AUX Modem/ Telnet/ CLI command line configuration			
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Windows, Linux, Mac OS X) installed on each computer in the network		Cat5 and above Ethernet cable			
	System	TCP/IP, network adapter, and network operating system (such as Microsoft			
Cat5 and above Ethernet cable		Windows Linux Mac OS X) installed on each computer in the network			
		Trindono, Emax, mao co x, motanoa on caon compater in the network			

DIMENSION

APPLICATION

ORDERING INFORMATION

Model	Description	Recommended Power Supply
	L2+ managed industrial PoE fiber switch with 8*10/100/1000M RJ45 ports and 4*100/1000M uplink	
ONV-IPS53128PFM	SFP fiber ports. Port 1-8 can support IEEE 802.3 af/at PoE standard. It support dual DC power supply input and DIN rail mounting.	120W/240W

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

PACKING LIST

	Content	Qty	Unit
Packing List	12-port Gigabit managed industrial PoE switch	1	SET
	RJ45-DB9 adapter conversion Line	1	PC
	User Guide	1	PC
	Warranty Card	1	PC

OPTICAL MODULE

Product	Model	Description	Unit
1.25G	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
Optical Module	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
	2612-T-G	Industrial SFP optical module, 1.25G single-mode single fiber	PC

	TX1310nm/ RX1550nm, transmission distance: 20km, LC	
	interface. supports DDM function and hot plugging.	
	Industrial SFP optical module, 1.25G single-mode single fiber	
2613-R-G	TX1550nm/ RX1310nm, transmission distance: 20km, LC	PC
	interface. supports DDM function and hot plugging.	
	Industrial SFP optical module, 1.25G single-mode single fiber	
2612-T-SC-G	TX1310nm/ RX1550nm, transmission distance: 20km, SC	PC
	interface. supports DDM function and hot plugging.	
2642 D CC	Industrial SFP optical module, 1.25G single-mode single fiber	
2613-R-SC-	TX1550nm/ RX1310nm, transmission distance: 20km, SC	PC
G	interface. supports DDM function and hot plugging.	

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POWER SUPPLY

Product	Model	Description	Unit
130W Desktop Power Adapter	GWS-AP130-52	Desktop 130W single set of output power adapter Input Voltage: AC100V-240V 50-60Hz, 2.3A Output Voltage: DC52V, 2.5A Operation Temperature: -20°C to +65°C	PC
250W Desktop Power Adapter	GWS-AP250-52	Desktop 250W single set of output power adapter Input Voltage: AC 100V-240V 50-60Hz, 4.1A Output Voltage: DC52V, 4.8A Operation Temperature: -20℃ to +65℃	PC
120W DIN Rail Industrial Power Supply	GWS-DP120-48	DIN Rail 120W single set of output power supply Input Voltage: AC100V-240V 50-60Hz, 1.5A Output Voltage: DC48V, 2.5A Operation Temperature: -40℃ to +70℃	PC
240W DIN Rail Industrial Power	GWS-DP240-48	DIN Rail 240W single set of output power supply Input Voltage: AC100V-240V 50-60Hz, 3.0A	PC

Supply

Output Voltage: DC48V, 5.0A

Operation Temperature: -40 °C to +70 °C

CONTACT US

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