Product Datasheet

8-port Gigabit Easy Managed Industrial PoE Switch

(ONV-IPS53084PFM)



OVERVIEW

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The ONV-IPS53084PFM is a Gigabit Easy managed industrial PoE switch independently developed by ONV. It has 4*10/100/1000Base-T adaptive RJ45 ports and 4*1000Base-X SFP fiber ports. Port 1-4 can support the IEEE802.3af/at PoE standard, and the single-port PoE power output reaches 30W. As a PoE power supply device, it can automatically detect and identify standard powered devices and power them through network cables. It can power wireless APs, IP cameras, network phones, industrial sensors, and other PoE terminal devices through network cables to meet the network environment that requires a high-density PoE power supply. 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.

The ONV-IPS53084PFM supports the ONV cloud platform and APP cloud management

+86 755 33376606 Optical Network Video Technologies (Shenzhen) Co., Ltd. to realize security network topology management, port management, PoE management, remote operation and maintenance, and other functions. It has high reliability, is easy to install and maintain, has fast switching capabilities, and multiple access ports, making it suitable for access to LAN devices of various sizes.

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

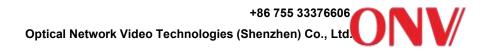
Smart PoE power supply

- Comply with IEEE 802.3 af/at PoE standard, automatically identify PoE devices for power supply, and not damage non-PoE devices.
- Support remote PoE management function, realize remote on/off of PoE port, port power status check, PoE port fault query function, etc.
- 4*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.

Minimalist application

- ♦ Support real-time fault alarm and fault location.
- ♦ Support remote upgrade, remote restart, and restore to factory settings.
- Support cloud platform and APP cloud management, visualized PoE power supply control, network topology management, and VLAN division.
- Web network management function, QoS, link aggregation, ring network management, port mirroring, port control, and bandwidth management.

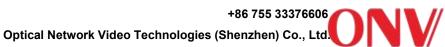
Stable and reliable



- \diamond CCC, CE, FCC, RoHS.
- The user-friendly panel can show the device status through the LED indicator of PWR, SYS, Link, and PoE.
- Low power consumption, aluminum alloy housing, and excellent heat dissipation to ensure the stable operation of the switch.

TECHNICAL SPECIFICATION

Model	ONV-IPS53084PFM		
Interface Characteristics			
	4*1000Base-X uplink SFP fiber ports (Data)		
Fixed Port	4*10/100/1000Base-T PoE ports (Data/ Power)		
	2 set V+, V- redundant DC power port (5Pin Phoenix terminal)		
Ethernet Port	Port 1-4 can support 10/100/1000Base-T auto-sensing, full/ half duplex		
Ellemetron	MDI/ MDI-X self-adaption		
	10BASE-T: Cat3,4,5 UTP (≤100 meters)		
Twisted Pair Transmission	100BASE-TX: Cat5 or later UTP (≤100 meters)		
	1000BASE-T: Cat5e/6 or later UTP (≤100 meters)		
Optical Fiber Port	Default no include optical modules (optional single-mode/ multi-mode,		
Oplical Fiber Port	single fiber/ dual fiber optical module. LC)		
Optical Cable/ Distance	Multi-mode: 850nm/ 0-550m, Single-mode: 1310nm/ 0-40km, 1550nm/		
Optical Cable/ Distance	0-120km		
Chip Parameter			
Network Management	L2		
Туре	LZ		
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX,		
NELWOIK FIOLOCOI	IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x		
Forwarding Mode	Store and forward (Full wire speed)		
Switching Capacity	56Gbps (non-blocking)		



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Forwarding Rate@64byte	11.9Mpps		
MAC	8K		
Buffer Memory	4.1M		
Jumbo Frame	10К		
	Power/ System: SYS(Green), Network: Link(Yellow), PoE: PoE (Green),		
LED Indicator	Fiber port: L/A (Green)		
Decet Outlet	Press for 6 seconds and then release to restore to factory settings		
Reset Switch	Short press twice (1 second interval) to switch to unmanaged state		
PoE& Power Supply			
PoE Port	Port 1-4		
PoE Management	Port PoE output on/off, Check the real-time power status of the port PoE		
Power Supply Pin	1/2(+) 3/6 (-)		
Max Power Per Port	30W, IEEE802.3 af/at		
Power Consumption	Standby<6W, full load af<60W, at<120W		
Input Valtage/ Interface	DC48-57V, 5Pin industrial Phoenix terminal, support anti-reverse		
Input Voltage/ Interface	protection		
Power Supply	No, optional 48V/60W or 48V/120W industrial power supply		
Physical Parameter			
Operation Temp/ Humidity	-40~+75°C, 5%~90% RH non condensing		
Storage Temp/ Humidity	-40~+80°C, 5%~95% RH non condensing		
Dimension (L*W*H)	145*134.5*47mm		
Net /Gross Weight	0.75kg/1.0kg		
Installation	Desktop, 35mm DIN Rail		
Certification& Warranty			
	IEC61000-4-3 (RS):10V/m (80-1000MHz)		
	FCC Part 15/CISPR22 (EN55022): Class A		
Lightning Protection	IEC61000-6-2 (Common Industrial Standard)		
	IEC61000-4-9 (Pulsed magnet field): 1000A/m		
	IEC61000-4-10 (Damped oscillation): 30A/m 1MHz		
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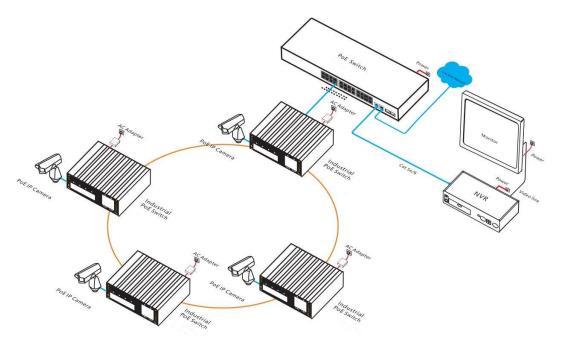
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	IEC61000-4-12/18 (Shockwave): CM2.5kV, DM1kV		
	Protection level: IP40, Lightning protection: 6KV 8/20us		
	IEC61000-4-4(EFT): Power cable: ±4kV, data cable: ±2kV		
	IEC61000-4-16 (Common-mode transmission): 30V, 300V, 1s		
	IEC61000-4-2 (ESD): ±8kV 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		
Machanical Droportion	IEC60068-2-6 (Anti Vibration), IEC60068-2-27 (Anti Shock),		
Mechanical Properties	IEC60068-2-32 (Free Fall)		
Certification	CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class A, RoHS		
Warranty	5 years, lifelong maintenance.		
Software			
	EEE Energy-saving and green Ethernet function		
Interface	Port traffic statistics, IEEE802.3x flow control (Full-duplex)		
	Port status display, Port duplex/ negotiation rate configuration		
VLAN	Port-based IEEE802.1Q VLAN configuration (4K)		
Port Aggregation	Static aggregation		
Loop Protection	Loop protection function		
Multicast	IGMP Snooping v1/v2, Max 32 multicast groups		
Port Mirroring	Bidirectional data mirroring based on port		
0.5	Diff-Serv QoS, Priority Mark/ Remark		
QoS	8*Output queues of each port, 802.1p/DSCP priority mapping		
Security	Broadcast storm control, Port isolation, Port speed limit		
Managamant	Mobile APP operation and maintenance management		
Management	ONV cloud platform management, One-key recovery, Web Management		
	Web browser: Mozilla Firefox 2.5 or higher, Google Chrome V42 or higher,		
System	Cat5 and above Ethernet cable		
	TCP/IP, network adapter, and network operating system (such as		
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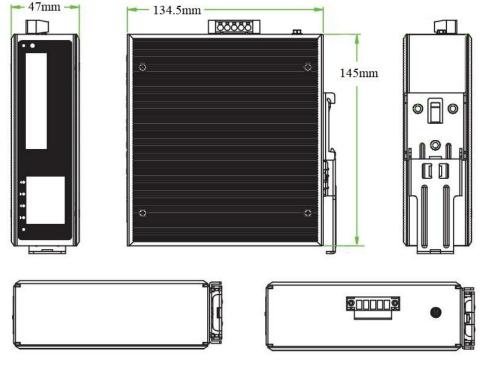
Microsoft Windows, Linux, Mac OS X) installed on each computer in the

network Cat5 and above Ethernet cable

APPLICATION



DIMENSION





ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS53084PFM	Easy managed industrial PoE switch with 4*10/100/1000M RJ45 ports and 4*1000M uplink SFP fiber ports. Port 1-4 can support the IEEE802.3 af/at PoE standard. It can support dual DC redundant power input (Phoenix terminal connection) and DIN rail mounting.	60W/120W

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

PACKING LIST

	Content	Qty	Unit
Packing List	8-port Gigabit Easy managed industrial PoE switch	1	Set
	User Guide	1	PC
	Warranty Card and Certificate of Conformity	1	PC

OPTICAL MODULE

Product	Model	Description	Unit
4.050	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
1.25G 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 TX1310nm/ RX1550nm, transmission distance: 20km, LC	PC
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	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.	
2612-T-G-SC	Industrial SFP optical module, 1.25G single-mode single fiber	
	TX1310nm/ RX1550nm, transmission distance: 20km, SC	PC
	interface, supports DDM function and hot plugging.	
2613-R-G-SC	Industrial SFP optical module, 1.25G single-mode single fiber	
	TX1550nm/ RX1310nm, transmission distance: 20km, SC	PC
	interface, supports DDM function and hot plugging.	
	2612-T-G-SC	2613-R-GIndustrial SFP optical module, 1.25G single-mode single fiber2613-R-GTX1550nm/ RX1310nm, transmission distance: 20km, LC interface, supports DDM function and hot plugging.2612-T-G-SCIndustrial SFP optical module, 1.25G single-mode single fiber TX1310nm/ RX1550nm, transmission distance: 20km, SC interface, supports DDM function and hot plugging.2613-R-G-SCIndustrial SFP optical module, 1.25G single-mode single fiber TX1310nm/ RX1550nm, transmission distance: 20km, SC interface, supports DDM function and hot plugging.2613-R-G-SCTX1550nm/ RX1310nm, transmission distance: 20km, SC

POWER SUPPLY

Product	Model	Description	Unit
60W DIN Rail Industrial Power Supply	GWS-DP60-48	DIN Rail 60W single set of output power supply Input Voltage: AC100V-240V 50-60Hz, 1.6A Output Voltage: DC48V, 1.25A Operation Temperature: -40°C to +70°C	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, 2.3A Output Voltage: DC48V, 2.5A Operation Temperature: -40°C to +70°C	PC

CONTACT US

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