Product Datasheet

8-port Gigabit Easy Managed Industrial PoE Switch

(ONV-IPS53084PFM)



OVERVIEW

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 Web management, which can realize port

Optical Network Video Technologies (Shenzhen) Co., Ltd.

+86 755 33376606

1

management, PoE management, VLAN division 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.

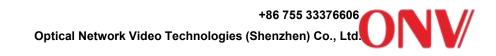
Smart PoE power supply

- 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 to realize remote on/off of PoE port, port power status check, PoE port fault query, and watchdog configuration function.
- 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

- Abandoning complex network management configuration, retaining practical network management functions, the Web can quickly realize network deployment, operation, and maintenance.
- Support one-click restore, web firmware upgrade, configuration backup and restore, and adding user accounts.
- Web network management functions, port mirroring, port control and bandwidth management, PoE power supply control, and VLAN division.

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	
Litemetroit	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 Eibor Port	Default no include optical modules (optional single-mode/ multi-mode,	
Optical 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		
Туре	L2	
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX,	
NELWORK PROLOCOI	IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x	
Forwarding Mode	Store and forward (Full wire speed)	
Switching Capacity	56Gbps (non-blocking)	



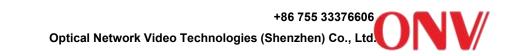
Use PoE, Choose ONV >>>

www.onvcom.com

Forwarding Rate@64byte	11.9Mpps		
MAC	8К		
Buffer Memory	4.1M		
Jumbo Frame	10K		
	Power/ System: SYS(Green), Network: Link(Yellow), PoE: PoE (Green),		
LED Indicator	Fiber port: L/A (Green)		
Depet Cwitch	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, IEEE802.3af/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	-40~85°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		
4	+86 755 33376606		

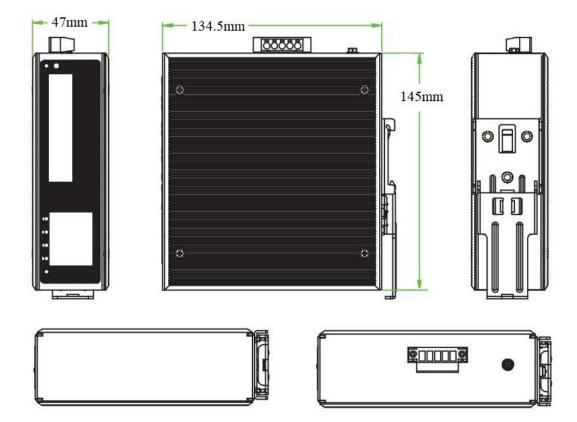
Optical Network Video Technologies (Shenzhen) Co., Ltd.

	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		
Mashaniaal Duanautiaa	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			
	Port status display, Port duplex/ negotiation rate configuration		
Interface	Watchdog setting, EEE energy saving and Green Ethernet function		
	Port traffic statistics, IEEE802.3x flow control configuration (Full duplex)		
VLAN	Port-based IEEE802.1Q VLAN configuration (4K)		
Mirroring	Basic port traffic mirroring		
Security	Broadcast storm control, Port isolation, Port speed limit		
Management	Web firmware upgrade, Configuration backup and restore		
Management	Add user account, One-click restore, Web network 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		

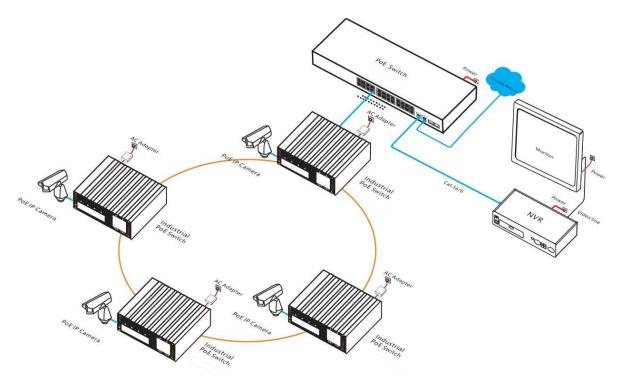




DIMENSION



APPLICATION





ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-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
7		+86 755 33376606 🦳 💽 🎢	

Optical Network Video Technologies (Shenzhen) Co., Ltd.

www.onvcom.com

	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

ONV Optical Network Video Technologies (Shenzhen) Co., Ltd. Tel: 0086-755-33376606

Fax: 0086-755-33376608

WeChat: ONV-PoE-IoT

Email: onv@onv.com.cn





Skype: onv@onv.com.cn

Teams: 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



