### **Product Datasheet**

### **16-port Full Gigabit Managed Industrial Ethernet Switch**

### (ONV-IPS53168FM-4GF)



### **OVERVIEW**

The ONV-IPS53168FM-4GF is a Gigabit L2+ managed industrial Ethernet fiber switch independently developed by ONV. It has 12\*10/100/1000Base-T adaptive RJ45 ports and 4\*100/1000Base-X uplink SFP fiber ports. Each port support wire-speed forwarding. The ONV-IPS53168FM-4GF has L2+ network management functions, supports IPV4/ IPV6 management, static route forwarding, complete security protection mechanisms, complete ACL/ QoS policies, 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. Communication can be quickly restored when a one-way network fails Ensure uninterrupted communication for important applications. According to the application needs, the port management, routing address management, port flow control, VLAN

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division, IGMP, security policy, and other application business configurations are performed through network management methods such as Web, CLI, SNMP, and Telnet. The ONV-IPS53168FM-4GF follows industrial product design and materials. The aluminum alloy shell enhances heat dissipation and has excellent industrial environment adaptability (including mechanical stability, climate environment adaptability, electromagnetic environment adaptability, etc.). Protection grade IP40, dual redundant power supply, low power consumption and no fan, 5-year warranty. It is suitable for industrial scenarios such as intelligent transportation, rail transportation, power industry, mining, petroleum, shipping, metallurgy, and green energy construction to establish 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 Gigabit SFP port combination, which enables users to flexibly build networking to meet the needs of various 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

- $\diamond$  Port isolation, storm control.
- ◇ IP+MAC+port+VLAN quadruple flexible combination binding function.
- S02.1X authentication provides authentication functions for LAN computers, and controls the authorization status of controlled ports according to the authentication results.

#### Stable and reliable

- $\diamond$  CCC, CE, FCC, and RoHS.
- The user-friendly panel can show the device status through the LED indicator of PWR, SYS, Link, and L/A.
- 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-IPS53168FM-4GF			
Interface Characteri	stics			
	1*RS232 console port (115200, N, 8,1)			
	Power failure alarm switch port (FAULT)			
Fixed Port	12*10/100/1000Base-T RJ45 ports (Data)			
	4*100/1000Base-X uplink SFP fiber ports (Data)			
	2*DC12-48V input ports (supports reverse connection protection)			
Ethernet Port	Port 1-12 support 10/100/1000Base-T(X) auto-sensing, full/ half duplex 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/6 or later UTP (≤100 meters)			
Ortical Eihan Dart	100/1000M SFP optical fiber port, default no include optical module (optional			
Optical Fiber Port	single-mode/ multi-mode, 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), Single-mode: 1310nm/ 0-40km, 1550nm/			
Distance	0-120km			
Chip Parameter				
Network	L2+			
Management Type	LZT			
Network 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	128Gbps (non-blocking)			
Forwarding	23.81Mpps			
Rate@64byte	20.0 httpps			



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CPU	800MHz			
DRAM	1Gb			
FLASH	128Mb			
MAC	16K			
Buffer Memory	12Mb			
Jumbo Frame	12KB			
LED Indicator	System: SYS (Green), Network: Link (Yellow), Fiber port: L/A (Green)			
Reset Switch	Yes, press and hold the switch for 10 seconds and release it to restore the			
Reset Switch	factory settings			
Power Supply				
Power Consumption	Standby<8W, Full load<15W			
Working Voltage	DC12-48V, 6 Pin industrial Phoenix terminal, support anti-reverse protection.			
Power Supply	No, optional 24V/24W industrial power supply			
Physical Parameter				
Operation TEMP	-40~+75°C, 5%~90% RH Non condensing			
/Humidity				
Storage TEMP	-40~+80°C, 5%~95% RH Non condensing			
/Humidity				
Dimension (L*W*H)	166*150*75mm			
Net /Gross Weight	1.8kg / 2.1kg			
Installation	Desktop, 35mm DIN Rail			
Certification & Warra	anty			
	Protection level: IP40			
	Lightning protection: 6KV 8/20us			
	IEC61000-4-3 (RS):10V/m (80~1000MHz)			
Lightning Protection	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		
Mechanical	IEC60068-2-6 (Anti Vibration), IEC60068-2-32 (Free Fall), IEC60068-2-27		
Properties	(Anti Shock)		
	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B,		
Certification	RoHS		
Warranty	5 years, lifelong maintenance.		
Network Management Feature			
	IEEE 802.3x flow control (Full duplex)		
	Port exception protection mechanism		
	Port real-time flow management (Flow Interval)		
Interface	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		
L3 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		

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Address, source IP address, destination IP address, IP protocol type, TCP/UDP port, TCP/UDP port range, VLAN, etc.Port based IEEE802.1X authenticationSSL guarantees data transmission security Quad binding function of IP+MAC+VLAN+ports MAC address learning limit, MAC address black holeAnti DoS attack, Port broadcast message suppression IP Source Guard function, AAA&RADIUS certification		Max 8 aggregation groups and max 8 ports per group.
STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)ERPS Ring NetworkSupport ERPS ring network, Recovery time less than 20ms, ITU-T G.8032MulticastMLD Snooping, Multicast VLANMulticastUser quick log out, MVR (Multicast VLAN Registration) IGMP Snooping v1/v2/v3 and 1024 multicast groups at mostMirroringBidirectional traffic mirroring for basic ports one-to-multiple mirroring, supports up to 4 port sessionsQoSQueue Scheduling Algorithm (SP, WRR, SP+WRR) Flow-based Rate Limiting, Stream based redirection Flow-based Packet Filtering, 8*Output queues of each port 802.1p/ DSCP priority mapping, Diff-Serv QoS, Priority Mark/ Remark 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		STP BPDU Guard, BPDU filtering and BPDU forwarding
MulticastMLD Snooping, Multicast VLANMulticastUser quick log out, MVR (Multicast VLAN Registration)IGMP Snooping v1/v2/v3 and 1024 multicast groups at mostMirroringBidirectional traffic mirroring for basic ports one-to-multiple mirroring, supports up to 4 port sessionsQoSQueue Scheduling Algorithm (SP, WRR, SP+WRR) Flow-based Rate Limiting, Stream based redirection Flow-based Packet Filtering, 8*Output queues of each port 802.1p/ DSCP priority mapping, Diff-Serv QoS, Priority Mark/ RemarkACLACL 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	Spanning Tree	STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)
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Image: Constraint of the service of	N dimensioner	Bidirectional traffic mirroring for basic ports
QoSFlow-based Rate Limiting, Stream based redirection Flow-based Packet Filtering, 8*Output queues of each port 802.1p/ DSCP priority mapping, Diff-Serv QoS, Priority Mark/ RemarkACLACL 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	Wirroring	one-to-multiple mirroring, supports up to 4 port sessions
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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	005	Flow-based Packet Filtering, 8*Output queues of each port
ACL 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		802.1p/ DSCP priority mapping, Diff-Serv QoS, Priority Mark/ Remark
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Port based IEEE802.1X authenticationSSL guarantees data transmission securityQuad binding function of IP+MAC+VLAN+portsMAC address learning limit, MAC address black holeAnti DoS attack, Port broadcast message suppressionIP Source Guard function, AAA&RADIUS certification		address, source IP address, destination IP address, IP protocol type,
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		TCP/UDP port, TCP/UDP port range, VLAN, etc.
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		Port based IEEE802.1X authentication
MAC address learning limit, MAC address black hole   Anti DoS attack, Port broadcast message suppression   IP Source Guard function, AAA&RADIUS certification		SSL guarantees data transmission security
Security Anti DoS attack, Port broadcast message suppression IP Source Guard function, AAA&RADIUS certification		Quad binding function of IP+MAC+VLAN+ports
Security IP Source Guard function, AAA&RADIUS certification		MAC address learning limit, MAC address black hole
IP Source Guard function, AAA&RADIUS certification	Socurity	Anti DoS attack, Port broadcast message suppression
Hierarchical user management and password protection	Security	IP Source Guard function, AAA&RADIUS certification
merarchical user management and password protection		Hierarchical user management and password protection
SSH 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
Port isolation, IP Source Guard, ARP message speed limit function		Port isolation, IP Source Guard, ARP message speed limit function
DHCP DHCP Client, DHCP Snooping, DHCP Server	DHCP	DHCP Client, DHCP Snooping, DHCP Server

	Web network management (https)	
	Link Layer Discovery Protocol(LLDP)	
	Viewing CPU Instant Utilization Status	
Managament	NTP clock, One click restore, SNMP V1/V2/V3	
Management	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,	
System	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 Cat5	
	and above Ethernet cable	

# DIMENSION



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# **APPLICATION**

## ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS53168FM-4GF	L2+ managed industrial Ethernet fiber switch with 12*10/100/1000M RJ45 ports and 4*100/1000M uplink SFP fiber ports. It can support dual DC power supply input and DIN rail mounting.	24W/36W

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

# **PACKING LIST**

	Content	Qty	Unit
Packing List	16-port Gigabit managed industrial Ethernet switch	1	SET
	RJ45-DB9 adapter conversion Line	1	PC
	User Guide	1	PC
	Warranty Card	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 DDM function and hot plugging.	PC
	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
1.25G	2612-T-G	Industrial SFP optical module, 1.25G single-mode single fiber TX1310nm/ RX1550nm, transmission distance: 20km, LC interface. supports DDM function and hot plugging.	PC
Optical Module	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-SC-G	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-SC-G	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 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 50-60Hz, 0.35A Output Voltage: DC24V, 1.0A Operation Temperature: -40°C to +70°C	PC
36W DIN Rail Industrial Power Supply	GWS-DP36-24	DIN Rail 36W single set of output power supply Input Voltage: AC100V-240V 50-60Hz, 0.56A Output Voltage: DC24V, 1.5A Operation Temperature: -40°C to +70°C	PC

# **CONTACT US**

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