Product Datasheet

16-port 10G Uplink Managed Industrial Ethernet Switch

(ONV-IPS56168FM-4TF)



OVERVIEW

The ONV-IPS56168FM-4TF is a 10G uplink managed industrial Ethernet fiber switch independently developed by ONV. It has 12*10/100/1000Base-T adaptive RJ45 ports and 4*1/10G uplink SFP+ fiber ports. Each port support wire-speed forwarding.

The ONV-IPS56168FM-4TF 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 strategy, and other application business configurations can be performed through Web, CLI, SNMP, Telnet,

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and other network management methods according to application needs. ONV-IPS56168FM-4TF has 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 economical, efficient, stable, and reliable communication networks.

FEATURE

Gigabit access, uplink 1/10G 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 1/10G uplink SFP+ fiber 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.

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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.
- ◇ 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, RoHS.
- The user-friendly panel can show the device status through the LED indicator of PWR, SYS, Link, and L/A.
- Low power consumption, aluminum alloy housing, and excellent heat dissipation to ensure the stable operation of the switch.

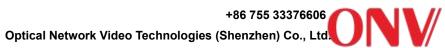
Easy O&M management

- 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

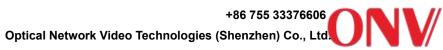
Model	ONV-IPS56168FM-4TF	
Interface Characteristics		
	1*Console port (115200, N, 8,1)	
	Power failure alarm switch port (FAULT)	
Fixed Port	4*1/10G uplink SFP+ fiber ports (Data)	
	1210/100/1000Base-T RJ45 ports (Data)	
	2*DC12-48V input ports (supports reverse connection protection)	
Ethernet Port	Port 1-12 can support 10/100/1000Base-T(X) auto-sensing, full/ half	
Linemetron	duplex 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 order single-mode/	
	multi-mode, single fiber/ dual fiber optical module. LC)	
Optical Fiber Port	Turbo overclocking 2.5G optical module expansion and ring network	
Expansion	·	
Optical Cable/ Distance	Multi-mode: 850nm/ 0-550m(1G), 850nm/ 0-300m (10G), Single-mode:	
	1310nm/ 0-40km, 1550nm/ 0-120km	
Chip Parameter		
Network Management	L2+	
Туре		
	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 802.3ae	
	10GBase-SR/LR, IEEE 802.3x	
Forwarding Mode	Store and Forward (Full wire speed)	
Switching Capacity	128Gbps (non-blocking)	
Forwarding Rate@64byte	77.38Mpps	





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CPU	800M			
DRAM	1G			
FLASH	128M			
MAC	16K			
Buffer Memory	12M			
Jumbo Frame	12K			
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			
Input Voltage/ Interface	DC12-48V, 6 Pin industrial Phoenix terminal, support anti-reverse			
input voltage/ interface	protection.			
Power SupplyNo, optional 24V/24W or 24V/36W 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)	166*150*75mm			
Net /Gross Weight	1.8kg/ 2.1kg			
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			
	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			
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	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 Dranautica	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.		
Network Management Fea	iture		
	IEEE802.3x flow control (Full duplex)		
	Port exception protection mechanism		
	Port real-time flow management (Flow Interval)		
	Broadcast storm suppression based on port rate		
Interface	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 Feature	Static route, RIPv1/v2, RIPng, OSPFv1/v2, OSPFv3		
	L2+ network management function, IPV4/ IPV6 dual-stack management		
	Port configuration of Access, Trunk, Hybrid, IEEE 802.1q		
VLAN	Voice VLAN, GVRP VLAN protocol, Port-based VLAN (4K)		
	Protocol-based VLAN, MAC address-based VLAN, QinQ configuration		
Dort Aggregation	LACP, Static aggregation, Max 8 aggregation groups and max 8 ports per		
Port Aggregation	group.		
Spanning Trac	STP BPDU Guard, BPDU filtering and BPDU forwarding		
Spanning Tree	STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)		
ERPS Ring Network	ERPS, Recovery time less than 20ms, ITU-T G.8032		

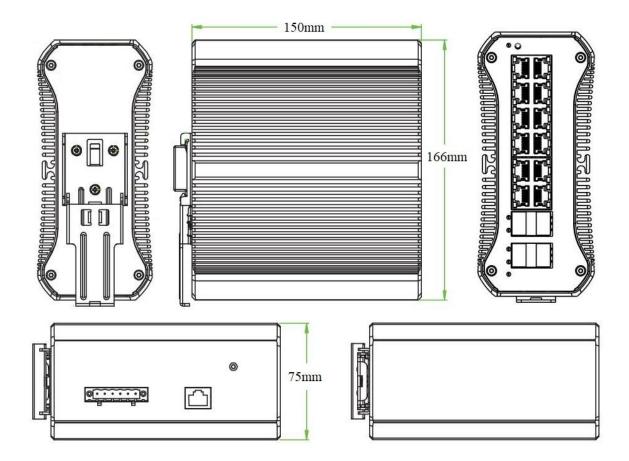
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MLD Snooping, Multicast VLANMulticastUser quick log out, MVR (Multicast VLAN Registration) IGMP Snooping v1/v2/v3 and 1024 multicast groups at mostMirroringBidirectional traffic mirroring for basic ports Supports 1-to-multiple mirroring, supports up to 4 port sessionsCoSFlow-based rate limiting, Flow-based redirection Queue scheduling algorithm (SP, WRR, SP+WRR) Flow-based packet filtering, 8*Output queues of each port 802.1p/ DSCP priority mapping, Diff-Serv QoS, Priority mark/ remarkACLdistribution 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.SecuritySL guarantees data transmission security Quad binding function of IP+MAC+VLAN+ports MAC address learning limit, MAC address black hole Port isolation, Port based IEEE802.1X authentication IP Source Guard function, AAA& RADIUS certification Anti DoS attack, Port broadcast message suppression 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 IP source address protection, ARP message speed limit functionDHCPDHCP Client, DHCP Snooping, DHCP Server				
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IP source address protection, ARP message speed limit function		SSH 2.0 provides a secure encrypted channel for user login		
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DHCP DHCP Client, DHCP Snooping, DHCP Server		IP source address protection, ARP message speed limit function		
	DHCP	DHCP Client, DHCP Snooping, DHCP Server		
Web network management (https)		Web network management (https)		
Link Layer Discovery Protocol (LLDP)	Managamant	Link Layer Discovery Protocol (LLDP)		
Management Viewing CPU Instant Utilization Status	management	Viewing CPU Instant Utilization Status		
NTP clock, One click restore, SNMP V1/V2/V3		NTP clock, One click restore, SNMP V1/V2/V3		

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	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

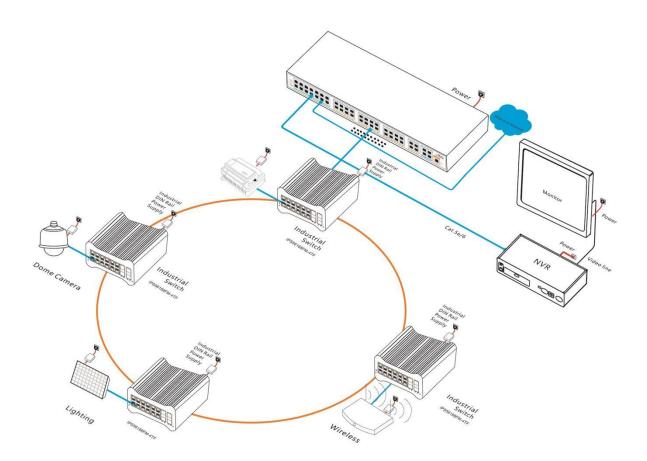






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APPLICATION



ORDERING INFORMATION

L2+ managed industrial Ethernet switch with 12*10/100/1000M RJ45 ports and 4*1/10G uplinkONV-IPS56168FM-4TFSFP+ fiber ports. It can support dual DC redundant power input (Phoenix terminal connection) and DIN rail mounting.	Model	Description	Recommended Power Supply
, o	ONV-IPS56168FM-4TF	12*10/100/1000M RJ45 ports and 4*1/10G uplink SFP+ fiber ports. It can support dual DC	24W/36W

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



PACKING LIST

	Content	Qty	Unit
	16-port 10G uplink 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			
	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 Optical Module	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		
	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		

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	6630-G	Industrial SFP+ optical module, 10G multi-mode dual fiber 850nm, transmission distance: 300m, LC interface. supports DDM function and hot plugging.	PC
10G Optical	7832-G	Industrial SFP+ optical module, 10G single-mode dual fiber 1310nm, transmission distance: 20km, LC interface. supports DDM function and hot plugging.	PC
Module	7832-33-G	Industrial SFP+ optical module, 10G single-mode single fiber TX1330nm/ RX1270nm, transmission distance: 20km, LC interface. supports DDM function and hot plugging.	PC
	7832-27-G	Industrial SFP+ optical module, 10G single-mode single fiber TX1270nm/ RX1330nm, transmission distance: 20km, LC 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 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

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



