Product Datasheet

26-port Full Gigabit Managed Industrial Ethernet **Fiber Switch**

(ONV-IPS33026FM)



OVERVIEW

The ONV-IPS33026FM is a full gigabit managed industrial Ethernet fiber switch independently developed by ONV. It has 24*10/100/1000Base-T RJ45 ports and 2*100/1000Base-X SFP fiber slot ports (Combo port). Each port can support wire-speed forwarding.

The ONV-IPS33026FM has L2+ full network management function, supports IPV4/IPV6 management, static route full line rate 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 requirements, you can configure multiple application services such as port traffic control, VLAN division, and SNMP through the Web network management mode. It meets the needs of various industrial Ethernet application environments and is suitable for industrial, intelligent transportation, rail transit, power industry, mining, petroleum, marine, metallurgical, and green energy construction to form a cost-effective, stable and reliable communication network.

FEATURE

■ Gigabit access, Gigabit SFP port uplink

- Support non-blocking wire-speed forwarding.
- ♦ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.
- ♦ A combination of Gigabit Ethernet port and Gigabit SFP port to meet the networking requirements of various scenarios.

Strong business processing capability

- ♦ STP/RSTP/MSTP.
- Static and dynamic aggregation.
- ♦ IGMP V1/V2 and IGMP Snooping.
- ♦ IEEE802.1Q VLAN, flexible VLAN division, Voice VLAN, and QinQ configuration.
- QoS, Priority mode based on 802.1P, Port & DSCP, queue scheduling algorithm including EQU, SP, WRR & SP+WRR.
- ♦ ALC, filter data packet through configuring matching rules, processing operation & time permission, and provide flexible and safe access control.

Security

- ♦ 802.1X authentication.
- Port isolation, Storm control.
- ◇ IP-MAC-VLAN-Port binding.

Stable and reliable

- ♦ Low power consumption, No fan, aluminum shell.
- Self-developed power supply, high redundancy design, providing a long term and stable power output.
- ♦ CCC,CE, FCC, RoHS.
- The user-friendly panel can show the device status through the LED indicator of PWR, Link.

TECHNICAL SPECIFICATION

Model	ONV-IPS33026FM	
Interface Characteristics		
	2*AC100-240V input ports	
	Alarm switch port (FAULT)	
	1*Console port (115200, N, 8,1)	
Fixed Port	24*10/100/1000Base-T RJ45 ports (Data)	
	2*100/1000Base-X uplink SFP slot ports(Data)(Combo port)	
	1 group of DC12-48V input ports (Support reverse polarity protection	
	function)	
Ethernet Port	Port 1-24 support 10/100/1000Base-T(X) auto-sensing,full/half duplex	
Ethernet Fort	MDI/MDI-X self-adaption	
Twisted Pair	10BASE-T: Cat3,4,5 UTP(≤100 meter)	
Transmission	100BASE-TX: Cat5 or later UTP(≤100 meter)	
Transmission	1000BASE-T: Cat5e or later UTP(≤100 meter)	
	Gigabit SFP optical fiber interface, default not included optical modules	
SFP Slot Port	(optional order single-mode / multi-mode, single fiber/ dual fiber optical	
	module. LC)	
Optical Cable/	Multi-mode: 850nm/0-500M, Single-mode:1310nm/ 0-40KM, 1550nm/	
Distance	0-120KM.	
Chip Parameter		
Network	L2+	
Management Type	L2 ·	
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX	
Network Frotocor	IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x	
Forwarding Mode	Store and Forward(Full Wire Speed)	
Switching Capacity	256Gbps	
Forwarding	38.69Mpps	

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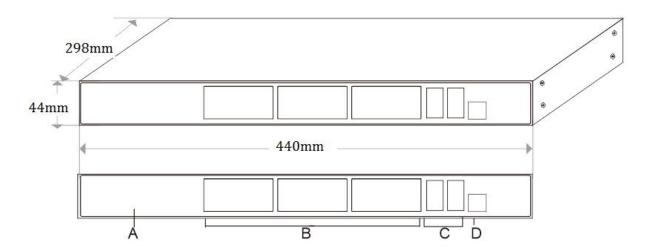
Rate@64byte		
MAC	8K	
Buffer Memory	8M	
Jumbo Frame	9.6K	
CPU(Hz)	416MHz	
DRAM	1G	
Flash	128M	
1 10311		
LED Indicator	Power:PWR (Yellow), System: SYS(Yellow), Network: Link (Yellow),	
	Fiber port: L/A (Green)	
Reset Switch	Yes, Press and release for 10 seconds to restore factory settings	
Power Supply		
Total PWR / Input	00144 (4 0 4 0 0 0 4 0 1 4)	
Voltage	60W (AC100-240V)	
Power Consumption	Standby<18W, Full load<35W	
Power Supply	Built-in power adapter, AC100~240V 50-60Hz 0.56A	
	1 group of DC12-48V input port, Alarm switch port, 2* AC power input	
	ports	
Power Input Port	Dual input power port design: AC power supply priority, support	
	anti-reverse protection, power-off automatic switching DC connection.	
Physical Parameter		
Operation TEMP /		
Humidity	-40~+80°C, 5%~90% RH Non condensing	
Storage TEMP /		
Humidity	-40~+85°C, 5%~95% RH Non condensing	
·	440*200*44;;;;	
Dimension (L*W*H)	440*298*44mm	
Net /Gross Weight	<4.7kg / <5.4kg	
Installation	Desktop, 19 inch 1U cabinet	
Certification & Warranty		

	Lightning protection: 6KV 8/20us, Protection level: IP40
	IEC61000-4-2(ESD):±8kV contact discharge,±15kV air discharge
	IEC61000-4-3(RS):10V/m(80~1000MHz)
	IEC61000-4-4(EFT): power cable:±4kV; data cable:±2kV
	IEC61000-4-5(Surge):power cable:CM±4kV/DM±2kV; data cable:±4kV
	IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz)
Linktoin o Donto etian	IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m ,1s to
Lightning Protection	3s
	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
	IEC61000-4-16(common-mode transmission):30V; 300V,1s
	FCC Part 15/CISPR22(EN55022):Class B
	IEC61000-6-2(Common Industrial Standard)
Mechanical	IEC60068-2-32 (free fall), IEC60068-2-27 (anti shock)
Properties	IEC60068-2-6 (anti vibration)
Contification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B,
Certification	RoHS
Warranty	5 years, lifelong maintenance.
Network Managemen	t Features
	IEEE802.3X (Full-duplex)
	Broadcast storm control based on port speed
Interface	The speed limit of the message flow in the access port.
шенасе	The minimum particle size is 64Kbps.
	Port temperature protection setting
	Port green Ethernet Energy-saving setting
	L2+ network management
Layer 3 Features	ARP protocol, maximum 1024 entries
	IPV4/IPV6 static route/default route supports up to 128 entries

L	Layer 3 routing and forwarding, support communication between
C	different network segments and different VLANs
F	Port configuration of Access, Trunk, Hybrid
VLAN \	VLAN based on MAC,VLAN based on the protocol
\	Voice VLAN, QinQ configuration,4K VLAN based on port, IEEE802.1q
Port Aggregation	LACP, Static aggregation
	Max 14 aggregation groups and 8 ports per group.
Spanning Tree	STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)
Industrial Ring (G.8032 (ERPS),Recovery time less than 20ms
Network Protocol 2	255 Ring at most, Max 254 devices per ring.
	MLD Snooping v1/v2,Multicast VLAN
Multicast I	IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out
Port Mirroring E	Bidirectional data mirroring based on port
F	Flow-based Redirection, Flow-based Rate Limiting
	Queue Scheduling Algorithm (SP, WRR, SP+WRR)
QoS F	Flow-based Packet Filtering, 8*Output queues of each port
8	802.1p/DSCP priority mapping, Diff-Serv QoS, Priority Mark/Remark
F	Port-based Issuing ACL,ACL based on port and VLAN
	L2 to L4 packet filtering, matching first 80 bytes message. Provide ACL
ACL k	based on MAC, Destination MAC address, IP Source, Destination IP, IP
F	Protocol Type, TCP/UDP Port, TCP/UDP Port Range, and VLAN, etc.
1	IEEE802.1X & MAC address authentication
E	Broadcast storm control, Backup for host datum
S	SSH 2.0, SSL, Port isolation, ARP message speed limit
Security	User hierarchical management and password protection
1	IP-MAC-VLAN-Port binding, ARP inspection, Anti-DoS attack
A	AAA & RADIUS, MAC learning limit, Mac black holes, IP source
ķ	protection
DHCP	DHCP Client, DHCP Snooping, DHCP Server, DHCP Relay

	CPU instant utilization status view
	One-key recovery, Cable Diagnose, LLDP
	Console /AUX Modem /Telnet /SSH2.0 CLI
Managamant	Web Management (HTTPS), NTP, System work log, Ping Test
Management	Download & Management on FTP, TFTP, Xmodem, SFTP, SNMP
	V1/V2C/V3
	ONV NMS-Smart Network Management System Platform
	(LLDP+SNMP)
	Category 5 Ethernet network cable
	Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42
System	or higher, Microsoft Internet Explorer10 or later.
	TCP/IP, network adapter, and network operating system (such as
	Microsoft Windows, Linux, or Mac OS X) installed on each computer in a
	network

DIMENSION



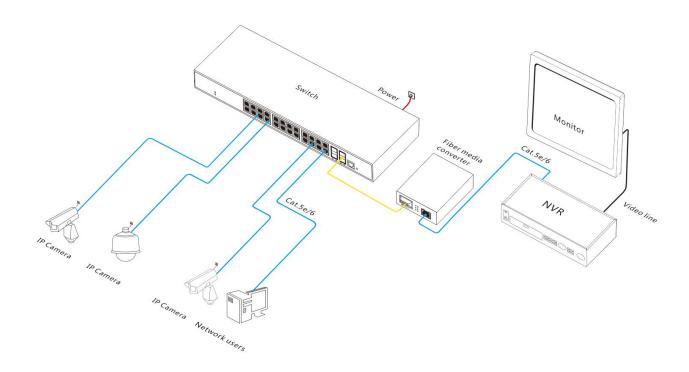
A. Working indicator

B. 24*10/100/1000M RJ45 ports

C. 2*100/1000M SFP ports(Combo port)

D. Console port

APPLICATION



ORDERING INFORMATION

Model	Description	Recommended Power
	L2+ managed industrial Ethernet fiber switch with	
ONV-IPS33026FM	24*10/100/1000M RJ45 ports and 2*100/1000M SFP	
	ports (Combo port). Built-in redundant dual power supply.	2*60W
	Support 2AC+DC power terminal input and 1U/19-inch	
	cabinet installation.	

Note: The industrial Ethernet switch is not included SFP optical module by default and needs to be purchased separately.

PACKING LIST

	CONTENT	QTY	UNIT
PACKING LIST	26-port full gigabit managed industrial Ethernet fiber switch	1	SET
	AC Power Cable	1	PC
	Mounting Kits	1	SET
	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, support DDM function, support hot plug and pull.	PC
4.050	2632-G	Industrial SFP optical module, 1.25G, single-mode dual fiber 1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	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, support DDM function, support hot plug and pull.	PC
	2613-R-G	Industrial SFP optical module, 1.25G, single-mode single fiber TX1550nm/RX1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC
	2612-T-G-SC	Industrial SFP optical module, 1.25G, single-mode single	PC

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		fiber TX1310nm/RX1550nm, transmission distance: 20km, SC interface, support DDM function, support hot plug and pull.	
	2613-R-G-SC	Industrial SFP optical module, 1.25G, single-mode single fiber TX1550nm/RX1310nm, transmission distance: 20km, SC interface, support DDM function, support hot plug and pull.	PC
Power Module	2633	1.25G SFP optical module transfers to 10/100/1000M RJ45 port.	PC

RELATED PRODUCT

Model	Description
	L2+ managed industrial Ethernet fiber switch with 16*10/100/1000M RJ45
ONV-IPS33018FM	ports and 2*100/1000M SFP slot ports. Built-in redundant dual power
ONV-183330 10FW	supply. support 2AC+DC power terminal input and 1U/19-inch cabinet
	installation.
	L2+ managed industrial Ethernet switch with 24* 10/100/1000M RJ45
ONV-IPS36028FM	ports and 4*1/10G uplink SFP+ fiber slot ports. Built-in redundant dual
ONV-1F330026FIVI	power supply. support 2AC+DC power terminal input and 1U/19-inch
	cabinet installation.
	L2+ managed industrial Ethernet switch with 24* 10/100/1000M RJ45
ONV-IPS36036FM	ports and 8*100/1000M uplink SFP fiber slot ports and 4*1/10G uplink
ONV-1F 3300301 WI	SFP+ fiber slot ports. Built-in redundant dual power supply. support
	2AC+DC power terminal input and 1U/19-inch cabinet installation.
ONV-IPS36368FM	L2+ managed industrial Ethernet switch with 8* 10/100/1000M RJ45 ports
	and 24*100/1000M uplink SFP fiber slot ports and 4*1/10G uplink SFP+
	fiber slot ports. Built-in redundant dual power supply. support 2AC+DC



	power terminal input and 1U/19-inch cabinet installation.
ONV-IPS36448FM	L2+ managed industrial Ethernet switch with 12* 10/100/1000M RJ45
	ports and 28*100/1000M uplink SFP fiber slot ports and 4*1/10G uplink
	SFP+ fiber slot ports. Built-in redundant dual power supply. support
	2AC+DC power terminal input and 1U/19-inch cabinet installation.

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