Product Datasheet

6-port Full Gigabit Managed bt Industrial PoE Switch

(ONV-IPS33064PFM-bt)



OVERVIEW

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ONV-IPS33064PFM-bt is a full Gigabit managed bt industrial PoE switch independently developed by ONV. It has 4*10/100/1000M bt PoE ports and 2*100/1000M SFP fiber slot ports. Port 1-4 can support IEEE802.3af/at/bt PoE standard. Single-port PoE power output is 90W. As a PoE power supply device, it can automatically detect and recognize the power-receiving equipment that meets the standard and supply power through the network cable. It provides stable and safe terminals for PTZ network domes, high-power wireless AP, high-power network multimedia speakers, and high-power POE lighting, etc. through a network cable to meet the network environment that needs high-density PoE power supply. It is suitable for intelligent transportation, rail transit, electric power, mining, metallurgy and green energy. Industrial scenes such as construction set up a cost-effective and stable communication network.

The ONV-IPS33064PFM-bt has L2+ full network management function, support IPV4/ IPV6 management, static route full line rate forwarding, security protection mechanism, ACL/QoS policy and VLAN, and is easy to manage and maintain. Support multiple network redundancy protocols STP/RSTP/MSTP (<50ms) and (ITU-T G.8032) ERPS (<20ms) to improve link backup and network reliability. When 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 PoE power management, port traffic control, VLAN division, and SNMP through the Web network management mode.

FEATURE

Gigabit access, SFP fiber port uplink

- Support Gigabit Ethernet port and Gigabit SFP port combination, which enables users to flexibly build networking to meet the needs of various scenarios.
- ♦ Support non-blocking wire-speed forwarding.
- Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.

Intelligent PoE power supply

- ♦ 4*10/100/1000Base-T RJ45 ports can support bt PoE power supply, meeting the demand for super high power PoE power supply in various scenarios.
- ♦ IEEE802.3af/at PoE standard, without damaging non-PoE devices.
- Priority system for PoE port, it will supply power to the high priority level port first when the power budget is insufficient and avoid overwork of the device.
- Set on the Web network management interface to control the PoE port power supply based on the user-defined time period.
- Customize the output power of the PoE port, the output power range covers the 5-90W PoE terminal load, providing a more practical configuration for the flexible use and control of PoE.

PoE network management and fast Ring function

- ♦ 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.
- ◇ IGMP V1/V2 and IGMP Snooping.
- \diamond ERPS/STP/RSTP/MSTP.
- ♦ Static and dynamic aggregation.

Security

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

Stable and reliable

- ♦ Low power consumption, fan-less design, aluminum shell.
- \diamond CCC, CE, FCC, RoHS.
- The user-friendly panel can show the device status through the LED indicator of PWR, SYS, Link, L/A, PoE.

One-stop remote control and management

- ♦ Web management, CLI command line (Console, Telnet), SNMP (V1/V2/V3).
- \diamond HTTPS, SSLV3, and SSHV1/V2.
- \diamond RMON, system log, LLDP, and port traffic statistics.
- ♦ CPU monitoring, memory monitoring, Ping test, and cable diagnose.

TECHNICAL SPECIFICATION

Model	ONV-IPS33064PFM-bt		
Interface Characteristics			
	4*10/100/1000M bt PoE ports (Data/Power)		
Fixed Port	2*100/1000M uplink SFP slot ports (Data)		
Fixed Folt	1 * RS232 console port(115200,N,8,1)		
	2 group of V+, V- redundant DC power interface (5 Pin Phoenix terminal)		
Ethernet Port	Port 1-4 support 10/100/1000Base-T auto-sensing, full/half duplex		
	MDI/MDI-X self-adaption		
Twisted Pair	10BASE-T: Cat3,4,5 UTP(≤100 meter)		
Transmission	100BASE-TX: Cat5 or later UTP(≤100 meter)		
Tansmission	1000BASE-T: Cat5e or later UTP(≤100 meter)		
	Gigabit SFP optical fiber interface, default no include optical modules		
SFP Slot Port	(optional single-mode / multi-mode, single fiber / dual fiber optical		
	module. LC)		
Optical Cable/	Multi-mode: 850nm /0 ~ 500M		
Distance	Single-mode: 1310nm /0 ~ 40KM, 1550nm /0 ~ 120KM.		
Chip Parameter			
Network			
Management	L2+		
Туре			
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX		
Network Protocol	IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x		
Forwarding Mode	Store and Forward(Full Wire Speed)		
Switching	128Gbps		
Capacity			
Forwarding	8.93Mpps		
Rate@64byte			



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ConsumptionStandby<8W, Full load<240WWorking Voltage48-57VDC, 5 Pin industrial Phoenix terminal, support anti-reverse protection.Power SupplyNo, optional 48V/240W or 48V/480W industrial power supply	Port			
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Working Voltage protection. Power Supply No, optional 48V/240W or 48V/480W industrial power supply	Consumption			
Power Supply No, optional 48V/240W or 48V/480W industrial power supply	Working Voltage	48-57VDC, 5 Pin industrial Phoenix terminal, support anti-reverse		
	in the second	protection.		
Physical Parameter	Power Supply	No, optional 48V/240W or 48V/480W industrial power supply		
	Physical Paramete	er		
Operation TEMP / -40~+80°C, 5%~90% RH Non condensing	Operation TEMP /	-40~+80°C, 5%~90% RH Non condensing		



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Humidity			
Storage TEMP /	-40~+85°C, 5%~95% RH Non condensing		
Humidity	-40~+65 C, 5%~95% RH Non condensing		
Dimension	145*134.5*47.5mm		
(L*W*H)			
Net /Gross Weight	<0.6kg / <0.8kg		
Installation	Desktop, 35mm DIN rail		
Certification & Wa	rranty		
	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)		
Lightning	IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m ,1s to		
Protection	3s		
	IEC61000-4-9(pulsed magnet field):1000A/m		
	IEC61000-4-10(damped oscillation):30A/m 1MHz		
	IEC61000-4-12/18(Shock-wave):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	IEC60068-2-6 (anti vibration), IEC60068-2-27 (anti shock)		
Properties	IEC60068-2-32 (free fall)		
Cortification	CCC, CE mark, commercial, CE/LVD EN60950, FCC Part 15 Class B,		
Certification	RoHS		
Warranty	5 years, lifelong maintenance.		
Network Managem	nent Features		
Interface	IEEE802.3X (Full-duplex)		

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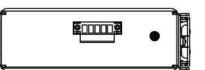
	Port temperature protection setting
	Port green Ethernet Energy-saving setting
	Broadcast storm control based on port speed
	The speed limit of the message flow in the access port.
	The minimum particle size is 64Kbps.
	L2+ network management ,IPV4/IPV6 management
Layer 3 Features	L3 soft routing forwarding, Static route, Default route @ 128 pcs, APR @
	1024 pcs
	Voice VLAN, QinQ configuration
	4K VLAN based on port, IEEE802.1q
VLAN	Port configuration of Access, Trunk, Hybrid
	VLAN based on MAC, VLAN based on the protocol
	LACP, Static aggregation
Port Aggregation	Max 3 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	250 Ring at most, Max 250 devices per ring.
N 4 - 141 4	MLD Snooping v1/v2,Multicast VLAN
Multicast	IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out
Port Mirroring	Bidirectional data mirroring based on port
	Flow-based Rate Limiting
	Flow-based Packet Filtering
0.05	8*Output queues of each port
QoS	802.1p/DSCP priority mapping
	Diff-Serv QoS, Priority Mark/Remark
	Queue Scheduling Algorithm (SP, WRR, SP+WRR)
	Port-based Issuing ACL, ACL based on port and VLAN
ACL	L2 to L4 packet filtering, matching first 80 bytes message. Provide ACL
	based on MAC, Destination MAC address, IP Source, Destination IP, IP

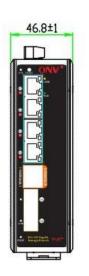
+86 755 33376606 Optical Network Video Technologies (Shenzhen) Co., Ltd.

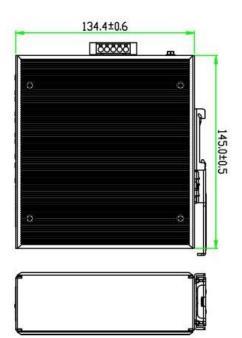
	Protocol Type, TCP/UDP Port, TCP/UDP Port Range, and VLAN, etc.
	IP-MAC-VLAN-Port binding
	ARP inspection,Anti-DoS attack
	AAA & RADIUS,MAC learning limit
	Mac black holes,IP source protection
Security	IEEE802.1X & MAC address authentication
	Broadcast storm control,Backup for host datum
	SSH 2.0,SSL,Port isolation,ARP message speed limit
	User hierarchical management and password protection
DHCP	DHCP Client, DHCP Snooping, DHCP Server, DHCP Relay
	One-key recovery
	Cable Diagnose,LLDP
	Web Management (HTTPS)
	NTP,System work log,Ping Test
Management	CPU instant utilization status view
	Console/AUX Modem/Telnet/SSH2.0 CLI
	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
System	Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42
	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

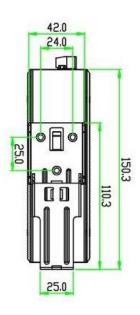
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DIMENSION

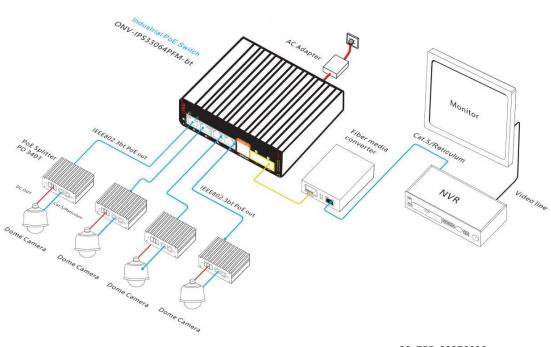








APPLICATION



ORDERING INFORMATION

Model	Description	Recommended
Moder	Description	Power Supply
	L2+ managed bt industrial PoE switch with	240W
ONV-IPS33064PFM -bt	4*10/100/1000M bt PoE ports and 2*100/1000M	
	uplink SFP ports. Port 1- 4 can support	
	IEEE802.3af/at/bt PoE standard. It can support	
	dual DC power input and DIN rail mounting.	

Note: Industrial PoE switch does no include the SFP optical module and power supply.

PACKING LIST

	CONTENT	QTY	UNIT
PACKING LIST	6-port full gigabit managed bt industrial PoE switch	1	SET
	RJ45-DB9 Line	1	PC
	User Guide	1	PC
	Warranty Card	1	PC

OPTICAL MODULE INFORMATION

Product	Model	Description	Unit
		SFP optical module, 1.25G, multi mode dual fiber	
1.25G	ONV-2630	850nm, transmission distance: 550m, LC interface,	PC
Optical		support DDM function, support hot plug and pull.	
Module		SFP optical module, 1.25G, single-mode dual fiber	
	ONV-2632	1310nm, transmission distance: 20km, LC interface,	PC
		support DDM function, support hot plug and pull.	
10		+86 755 33376606	

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

	ONV-2612-T	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
	ONV-2613-R	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	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
	ONV-2612-T-S C	SFP optical module, 1.25G, single-mode single fiber TX1310nm/RX1550nm, transmission distance: 20km, SC interface, support DDM function, support hot plug and pull.	PC
	ONV-2613-R-S C	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	ONV-2633	1.25G SFP optical module transfers to 10/100/1000M RJ45 port.	PC

POWER SUPPLY

Product	Model	Description	Unit
		Din Rail type 240W single set of output	
240W DIN Rail		power supply;	
Industrial Power	GWS-DP240-48	Input Voltage:AC 100V~240V 50-60Hz,3A	PC
Supply		Output Voltage:DC 48V 5A	
		Operation Temperature:-40℃—+70℃	
		Din Rail type 480W single set of output	
480W DIN Rail		power supply;	
Industrial Power	GWS-DP480-48	Input Voltage:AC 100V~240V 50-60Hz,5A	PC
Supply		Output Voltage:DC 48V 10A	
		Operation Temperature:-40℃—+70℃	

RELATED PRODUCT

Model	Description
	Unmanaged bt industrial PoE fiber switch with 6*10/100/1000M
ONV-IPS33064P-bt	RJ45 ports. Port 1-4 can support IEEE802.3af/at/bt PoE standard.
	It can support dual DC power input and DIN rail mounting.
	Unmanaged bt industrial PoE fiber switch with 5*10/100/1000M
ONV-IPS33064PFG-bt	RJ45 ports and 1*1000M SFP port. Port 1-4 can support
UNV-IF333004FFG-bl	IEEE802.3af/at/bt PoE standard. It can support dual DC power
	input and DIN rail mounting.
	Unmanaged bt industrial PoE fiber switch with 2*10/100/1000M
ONV-IPS33064PF-bt	RJ45 ports and 2*1000M SFP ports. Port 1-4 can support
0110-1-355004-1-51	IEEE802.3af/at/bt PoE standard. It can support dual DC power
	input and DIN rail mounting.
ONV-IPS31064P-bt	Unmanaged bt industrial PoE switch with 6*10/100M RJ45 ports.

Port 1-4 can support IEEE802.3af/at/bt PoE standard. It can		
support dual DC power input and DIN rail mounting.		
Unmanaged bt industrial PoE fiber switch with 4*10/100M RJ45		
ports and 1*10/100/1000M uplink RJ45 port and 1*1000M uplink		
SFP port. Port 1-4 can support IEEE802.3af/at/bt PoE standard. It		
can support dual DC power input and DIN rail mounting.		
Unmanaged bt industrial PoE fiber switch with 4*10/100M RJ45		
ports and 2*155M uplink SFP ports. Port 1-4 can support		
IEEE802.3af/at/bt PoE standard. It can support dual DC power		
input and DIN rail mounting.		

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