

## 14-port Gigabit Managed Industrial POE Switch

(ONV-IPS33148PFM)

### Managed Industrial POE Switch



- ◆ 10-Port 10/100/1000Base-T + 4 (100/1000M) SFP L2 Plus Managed POE+ Switch. Port 1-8 supports PoE
- ◆ L2+ features provide better manageability, security, QoS, and performance.
- ◆ Support L2+ Switching features including 802.1Q VLAN, Mirroring, Port isolation, IGMP Snooping, DHCP Snooping, LLDP, POE+ management, IP Source Guard, ARP inspection, ACLs etc.
- ◆ Support spanning tree STP(802.1D) and RSTP(802.1W).
- ◆ Jumbo frames support up to 9.6K kilobytes.
- ◆ Support enhanced management through WEB, CLI, TELNET, SSH, SNMP.
- ◆ Support cable diagnosis
- ◆ Supports both IEEE 802.3af and 802.3at, and every port PoE configuration function
- ◆ G.8032, support <50ms industrial quick ring protection
- ◆ 48 VDC (48~57VDC), Power Dissipation: <6W, Self-consumption:<15W, dual redundancy power input design for non-stop working, 6-pin 5.08mm-gap plug-in terminal

### Product Description

This L2+ managed POE+ switch, provides a reliable infrastructure for your business network. It delivers more intelligent features you need to improve the availability of your critical business applications, protects your sensitive information, and optimizes your network bandwidth to deliver information and applications more effectively. It provides the ideal combination of affordability and capabilities for entry level networking of industrial, small business or enterprise application which demands industrial, surveillance, IP Phone, IP Camera or Wireless applications, thus helps you create a more efficient workforce.

In short, it provides security, performance, quality of services, central managed and other network control capabilities. Optimized and customized design and affordable pricing, it best fit for SMB or entry-level enterprise solution. It passed the rigorously testing to deliver excellent performance. As a managed switching solution, it also provides the flexibility to manage and prioritizes suitable-bandwidth traffic such as voice. In addition, it has advance security and gives you tight control to safeguard the network from unauthorized users.

### Technical Specification

Product	<b>14-Port Managed Industrial POE Switch (ONV-IPS33148PFM)</b>	
<b>Performance</b> (Switching capacity and forwarding rate)		
Capacity in Millions of Packets per Second (mpps) (64-byte packets)	20.83	
Switching Capacity in Gigabits per Second (Gbps)	256	
<b>Interface</b>		
Ports	10-Port 10/100/1000Base-T + 4 (100/1000M) SFP	
<b>Layer 2 Switching</b>		
Spanning Tree Protocol (STP)	Standard Spanning Tree 802.1d Rapid Spanning Tree (RSTP) 802.1w	
G.8032 ERPS	<50ms ring protection for industrial high reliable application	
Aggregation	Link Aggregation Control Protocol (LACP) IEEE 802.3ad; Up to 7 groups ; Up to 14 ports per group	
VLAN	Support up to 4K VLANs simultaneously (out of 4096 VLAN IDs) ; Port-based VLAN; 802.1Q tag-based VLAN	
IGMP v1/v2 snooping	IGMP limits bandwidth-intensive multicast traffic to only the requesters; supports 1024 multicast groups (source-specific multicasting is not supported)	
<b>Security</b>		
Secure Shell (SSH) Protocol	SSH secures Telnet traffic in or out the switch, SSH v1 and v2 are supported	
Secure Sockets Layer (SSL), HTTPS	SSL encrypts the http traffic, allowing advance secure access to the browser-based management GUI in the switch	
Port Security	Locks MAC Addresses to ports, and limits the number of learned MAC addresses	
DHCP Snooping	prevent unauthorized configuration and use of IP addresses, while providing support for IP Source Guard and ARP detection	
IP Source Guard	Prevents datagram with spoofed addresses from being in the network	
ARP Inspection	Prevent ARP spoofing attacks and ARP	
Storm control	Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port	
ACLs	Support for up to 256 entries; Drop or rate limitation based on source and destination MAC, VLAN ID or IP address, protocol, port, differentiated services code point (DSCP) / IP precedence, TCP/ UDP source and destination ports, 802.1p priority, Ethernet type, Internet Control Message Protocol (ICMP) packets, IGMP packets, TCP flag	
<b>Quality of Service</b>		
Hardware	Support 8 hardware queues	
Scheduling	8 COS queues per port support strict priority and weighted round-robin (WRR)	

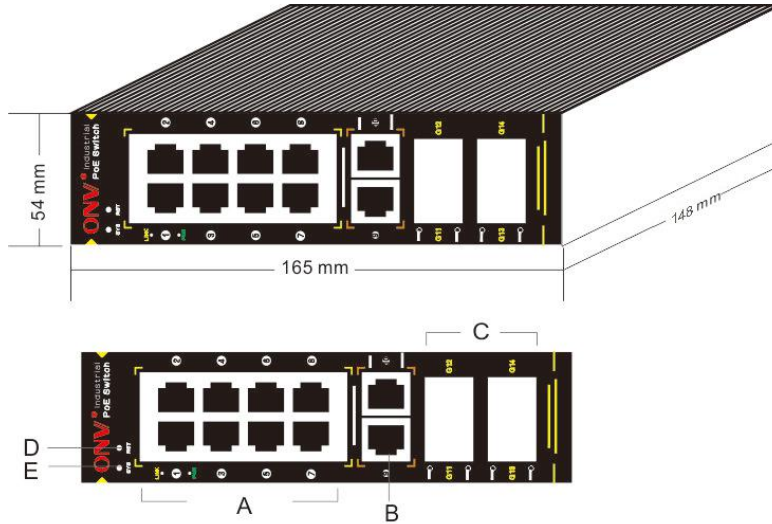
Classification	Port based; 802.1p(PCP) VLAN priority based;		
Rate Limiting	Ingress policer; egress shaping and rate control; per VLAN, per port and flow based		
Lightning protection	6KV Execute: IEC61000-4-5, ESD: 6KV. Contact discharge KV, Air Discharge Execute: IEC61000-4-2		
<b>Management</b>	(Web/ SSL, Telnet/ SSH, ping, Trivial File Transfer Protocol (TFTP), SNMP, Syslog)		
Web GUI interface	Built-in switch configuration utility for browser-based device configuration (HTTP/ HTTPs). Supports configuration, system dashboard, maintenance, and monitoring		
Dual Image	Dual image provides independent primary and secondary OS files for backup while upgrading		
Firmware upgrade	Web browser upgrade (HTTP/ HTTPs) and TFTP; Upgrade through console port as well		
Port mirroring	Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to <b>N-1 (N is Switch's Ports)</b> ports can be mirrored to single destination port. A single session is supported.		
Other management	Single IP management; HTTP/HTTPs; SSH; RADIUS; DHCP Client; SNTP; cable diagnostics; ping; syslog; Telnet client (SSH secure support)		
<b>Green Ethernet</b>			
Green and Energy-saving Ethernet (EEE)	Compliant IEEE802.3az Energy Efficient Ethernet Task Force. Automatically turns off power on Gigabit Ethernet RJ-45 port when detecting link down or Idle of client. Active mode is resumed without loss of any packets when the switch detects the link up		
Cable length detection	Adjusts the signal strength based on the cable length. Reduces the power consumption for cables shorter.		
<b>General</b>			
Jumbo frames	Frame sizes up to 9KB supported on Gigabit interfaces		
MAC Table	Up to 8K MAC addresses		
Memory Buffer	4M		
<b>Discovery</b>			
Link Layer Discovery Protocol (LLDP)	Used by network devices for advertising their identities, capabilities, and neighbors on a IEEE 802 local area network, principally wired Ethernet.		
<b>PoE</b>			
PoE Standard:	IEEE802.3af/IEEE802.3at	PoE Port Power:	Max 30W
PoE Ports:	8 ports support PoE	Power Type:	End-span
<b>Minimum Requirements</b>			
Web browser: Mozilla Firefox version 2.5 or later, Microsoft Internet Explorer version 6 or later; Category 5 Ethernet network cable; TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on each computer in network			
<b>Environmental (preliminary)</b>			
Dimension / Weight	165*148*54mm / 1.1kg		

## 14-Port Full Gigabit Industrial Managed PoE Switch

Working Environment

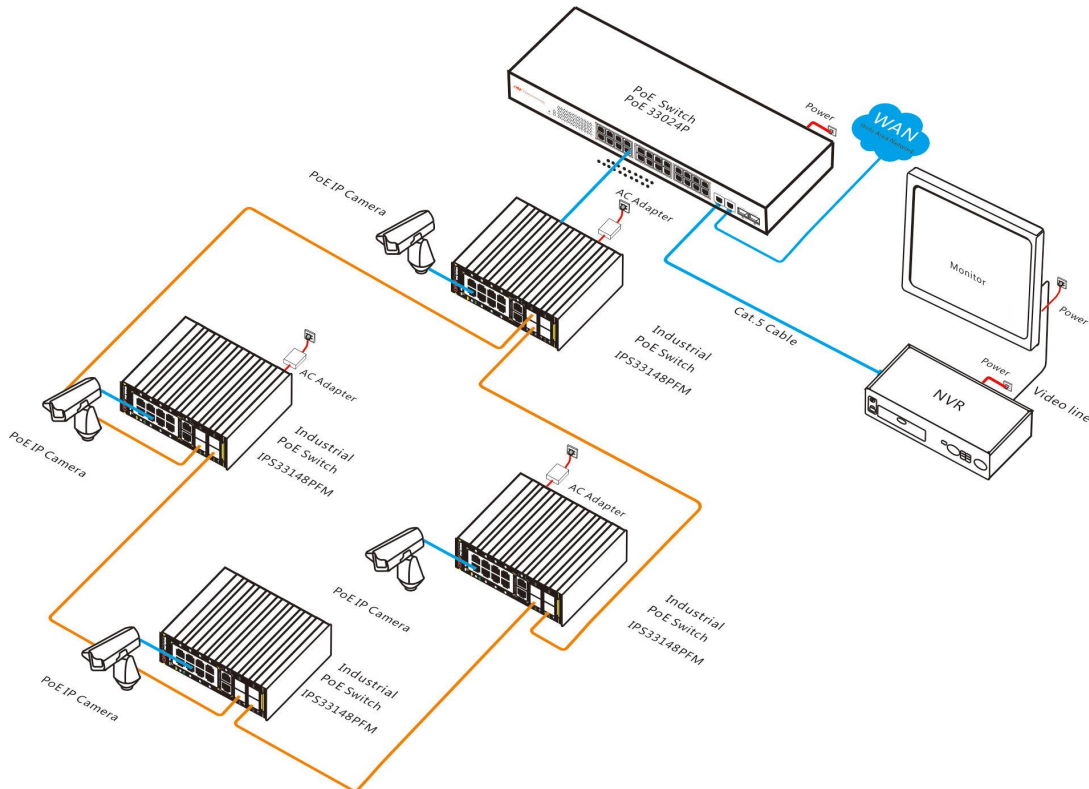
Operating temperature: -40 to 80 °C; Storage temperature: -40°C to 85 °C;  
Operating humidity: 10% to 90% , relative, non-condensing

### Dimension



- A. PoE Ports
- B. Gigabit Rj45 Uplink
- C. Gigabit SFP Uplink
- D. Reset
- F. System Working Indicator

### Application



**Product Ordering Information**

**Product Model:** ONV-IPS33148PFM

**Product Description:** 14-Port Gigabit Managed Industrial PoE Switch with 10-Port 10/100/1000Base-T + 4 (100/1000M) SFP slots. Port 1-8 supports PoE, IEEE 802.3af/IEEE 802.3at standard, up to 30W per PoE port, can be customized by Web management software. Dual redundant power supply design. Ring network application is available.

**Product Packing Lists**

<b>Packing Lists</b>	14-Port Gigabit Managed Industrial PoE Switch (ONV-IPS33148PFM)
	User Guide
	Warranty Card

**Note:** SFP module and power adapter is not included in this package. Please order it separately.

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