8-Port 10/100/1000Base-T + 8 (100M/1G) SFP L2 Plus Industrial

Managed POE+ Switch

(ONV-IPS33168PFM)

16 Port Full Gigabit Industrial Managed PoE Switch



- L2+ features provide better manageability, security,
 QoS, and performance.
- 8*10/100/1000M Base-TX RJ45 Ports + 8*1000M Base-X SFP Ports. All ports support line-speed forwarding mode
- 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 kilobtyes.
- Support enhanced management through WEB, CLI,TELNET, SSH, SNMP.
- ◆ IEEE 802.3af and 802.3at. Supports per port PoE configuration function
- ◆ G.8032, support <50ms industrial quick ring protection

Description

The ONV-IPS33168PFM, the next generation L2+ managed POE+ switch from ONV, features with powerful web management function. Fan-less & low consumption design. Supporting Looped Network Redundancy. (Self-healing time <20ms, with complete security and QoS policy, support VLAN division, port mirroring, port speed limit. Support broadcast storm suppression & flow control. Managed through a variety of interfaces and ways including the WEB, CLI and SNMP etc.

With the wide working temperature and anti-surge protection in all ports, it is widely used in rail traffic, electricity, water conservancy, petrochemical, industrial control, electric alarm bayonet and other harsh environment, stability required strictly industry or place.

Applications

Whether you want to create a high-performance network to connect all clients' computers or an application to deliver data, voice, and video services, the ONV-IPS33168PFM provides a solution to fit your requirements. Possible implement scenarios include:

Secure and High Performance PC or laptop connectivity:

The ONV-IPS33168PFM switch can easily and securely connect clients' PC or laptop in offices with each other and with all of the servers, printers, and other networking devices they use. High performance and reliable connectivity will help to speed file transfers and data processing, improves network performance and security, and keeps the clients connected and productive.

Secure and Quality wireless connectivity:

The ONV-IPS33168PFM switch connected with WiFi APs allow WiFi clients to work from conference rooms and public areas, collaborate in any place, and access networking from wherever they are. Gigabit Ethernet connectivity provides these clients have the suitable bandwidth and quality performance they need to make mobility connected. Through embedded security, the clients can work with confidence and authorized users can access networking and network devices.

Unified communications with open standards:

To be a managed network solution, it provides the high performance and advanced networking quality to deliver all networking communications and data (such as IP telephony, IP surveillance, and Video Streaming) over a single network.

Benefits

The ONV-IPS33168PFM provides security, performance, quality of services, central managed and other network control capabilities. Optimized and customized design and affordable pricing. It provides:

♦ Excellent performance and reliability:

ONV-IPS33168PFM 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.



♦ Strong security:

ONV-IPS33168PFM provides an advance security and gives you tight control to safeguard the network from unauthorized users. Advanced security features include:

- ---Extensive access control lists (ACLs) to restrict sensitive portions of the network from unauthorized users or guests.
- ---virtual LANs (VLANs) provide internet connectivity to guests while isolating critical traffic from guest traffic.
- ---IP Source Guard and ARP inspection to prevent datagrams with spoofed addresses from being in the network.
- ---IEEE802.1X port security to tightly limit access to specific segments of network

Technical Specification

Feature	Description				
Performance					
Switching capacity and forwarding rate	Model Name	Capacity in Millions of Packets per Second (mpps) (64-byte packets)	Switching Capacity in Gigabits per Second (Gbps)		
	ONV-IPS331 68PFM	47.6	32		
Layer 2 Switching					
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 8 groups Up to 16 ports per group				
VLAN	Support up to 4K VLANs simultaneously (out of 4096 VLAN IDs) Port-based VLAN 802.1Q tag-based VLAN				
DHCP Snooping (Layer 2)	Prevent unauthorized configuration and use of IP addresses, while providing support for IP Source Guard and ARP detection				
IGMP v1/v2 snooping	IGMP limits bandwidth-intensive multicast traffic to only the requesters; supports 1024 multicast groups (source-specific multicasting is also supported)				
Security					
Secure Shell (SSH) Protocol	SSH secures Telnet traffic in or out the switch, SSH v1 and v2 are supported				

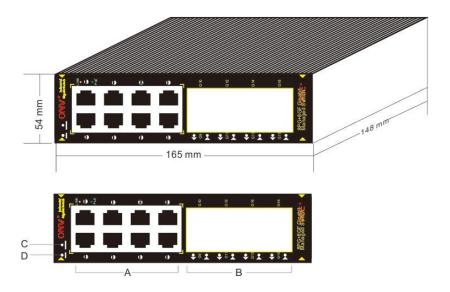


Secure Sockets Layer (SSL), HTTPS	SSL encrypts the http traffic, allowing advance secure access to the browser-based management GUI in the switch				
Port Security	Locks MAC Addresses to ports, and limits the number of learned MAC addresses				
IP Source Guard	Prevents datagram with spoofed addresses from being in the network				
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				
Quality of Service					
Hardware Priority Queue	Support 8 hardware queues				
Scheduling	Strict priority and weighted round-robin (WRR) Queue assignment based on DSCP and class of service (802.1p/ CoS)				
Classification	Port based; 802.1p VLAN priority based; IPv4/IPv6 precedence/ type of service (ToS) / DSCP based;				
Rate Limiting	Ingress policer; egress shaping and rate control; per VLAN, per port and flow based				
Management Web/ SSL, Telnet/ SS	SH, 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 N-1 (N is Switch's Ports) ports can be mirrored to single destination port. A single session is supported.				
Other management Single IP management; HTTP/HTTPs; SSH; RADIUS; DHCP Cli cable diagnostics; ping; syslog; Telnet client					
Green Ethernet					
	Compliant IEEE802.3az Energy Efficient Ethernet Task Force. Automatically turns off power on				
Link detection	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				

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		up						
Cable	length	Adjusts the signal strength based on the cable length. Reduces the power						
detection	า	consumption for cables shorter.						
General								
Jumbo fi	Jumbo frames Frame sizes up to 9KB supported on Gigabit interfaces				ces			
MAC Table Up to 8K MAC addresses.								
Discove	ery							
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.								
Interfac	е							
Ports	Model Name		Total System Ports	RJ-45 Ports	(100M/1G) SFP	(1G/10G) SFP+		
	ONV-IPS33168PF M		16GbE	8GbE	8			
Environmental (preliminary)								
Dimensions 165*145*45mm								
Weight 1.1KG								
Power	DC 48~57V							
Certification CE, ROHS, I			S, FCC					
Operating temperature -40 ~ 8		-40 ~ 80	0 ~ 80 ℃					
Storage temperature -40°C		-40℃ ~ 8	0℃~85℃					
Operatin	Operating humidity 10% to 90%, relative, non-condensing							

Dimension

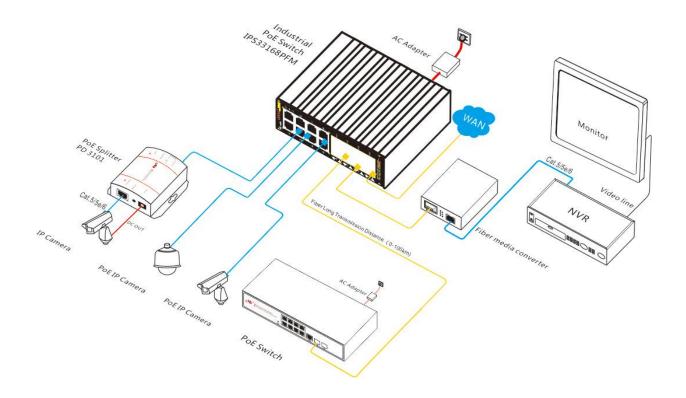


- A. 10/100/1000M PoE RJ45 Port
- B. Gigabit SFP Port

C. Reset

D. System Working Indicator

Application



Ordering Information

Model Name	Description					
ONV-IPS33168PFM	8-Port 10/100/1000Base-T +	8	(100M/1G)	SFP	L2	Plus
	Industrial Managed PoE Switch					

Packing List

Package Contents

- 1. Industrial PoE Switch
- 2. User Guide
- 3. Warranty Card

Minimum Requirements

- 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

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