24-Port L3 10G Industrial Managed POE Switch

(ONV-IPS38248PFM)

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- L3 features provide better manageability, security, QoS, and performance.
- 12*10/100/1000M RJ45 Ports (PoE port: 1-8) + 8*Gigabit SFP Ports + 4*10G SFP Ports + 1*Console Port. All ports support line-speed forwarding mode
- Support L3 Switching features including Static route, Default route, ARP, 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), RSTP(802.1W) and MSTIP.
- 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

Description

The ONV-IPS38248PFM, the next generation L3 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-IPS38248PFM provides a solution to fit your requirements. Possible implement scenarios include:

• Secure and High Performance PC or laptop connectivity:

The ONV-IPS38248PFM 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-IPS38248PFM 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-IPS38248PFM 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-IPS38248PFM 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-IPS38248PFM 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-IPS382 48PFM	89.28	598G				
Layer 3 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						
ARP	Max support 256 dynamic ARP						
Route Function	Max support 144 IPv4/IPv6 static routes or default routes						
VLAN	Support up to 4K VLANs simultaneously (out of 4096 VLAN IDs) Port-based VLAN 802.1Q tag-based VLAN						
DHCP Snooping	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						



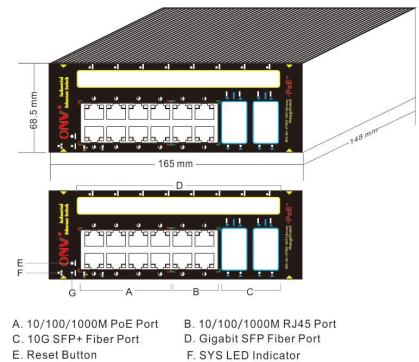
Secure Sockets Layer (SSL), HTTPS	SSL encrypts the http traffic, allowing advance secure access to the browser-based management GUI in the switch			
Port Security	Locks MAC Addresses to ports, and limits the number of learned MAC addresses			
IP Source Guard	Prevents datagram with spoofed addresses from 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 Client: SN			
Green Ethernet				
Link detection	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	Adjusts the signal strength based on the cable length. Reduces the pe						
detection		consumption for cables shorter.						
General								
Jumbo frames		Frame sizes up to 9KB supported on Gigabit interfaces						
MAC Table		Up to 32K MAC addresses.						
Discove	ery							
Link Discover (LLDP)	scovery Protocol Used by network devices for advertising their identities, capabilities, a neighbors on a IEEE 802 local area network, principally wired Ethernet.			•				
Interfac	e							
Ports	Model Name		Total System Ports	RJ-45 Ports	(100M/1G) SFP	(1G/10G) SFP+		
	ONV-IPS38 M	3248PF	24GbE	12GbE	8	4		
Environ	mental (pr	eliminary	·)					
Dimensi	ons	165*148	165*148*68.5mm					
Weight 1.2KG		1.2KG	2KG					
Power DC 48~5		48~57V						
Certification CE, F		CE, ROI	CE, ROHS, FCC					
Operating temperature		-40 ~ 80 ℃						
Storage temperature		-40℃ ~ 85 ℃						
Operating humidity		10% to 9	10% to 90%, relative, non-condensing					

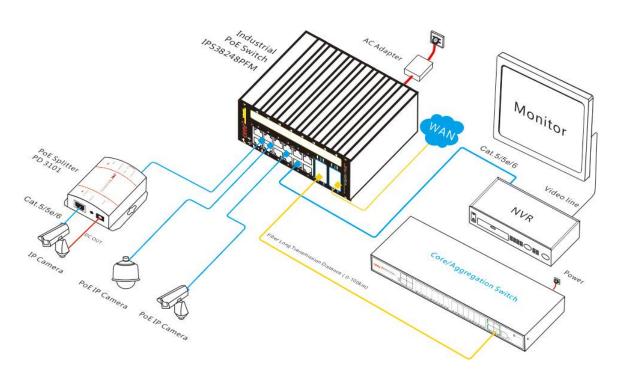


Dimension



- G. PWR LED Indicator
- F. SYSL

Application



Ordering Information

Model Name	Description
ONV-IPS38248PFM	12*10/100/1000M RJ45 Ports (PoE port: 1-8) + 8*Gigabit SFP Ports +
	4*10G SFP Ports + 1*Console Port.

Pa	cking List			
Ра	ckage Contents			
1. Industrial PoE Switch				
2. User Guide				
3. '	Warranty Card			
Mi	nimum 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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