48-port 10G Managed Ring PoE Switch

(ONV-POE36048PFM)

48-port 10G Ring PoE Switch

◆48x 10/100/1000M RJ45 (PoE1-48) + 4x 10G SFP+

◆L2+ features provide better manageability, security, QoS, and performance

◆Support L2+ Switching features, including VLAN, TRUNK, Mirroring, Port isolation/flow control/speed limit, Storm control, QOS, ACLs etc.

◆Support spanning tree STP and RSTP.

◆Jumbo frames support up to 9.6K kilobytes

◆ Support enhanced management through WEB, CLI, TELNET, SNMP

◆Support cable diagnosis

◆48 ports support PoE. Compliant with both IEEE 802.3af and 802.3at. Allow PoE configuration for each PoE port

Product Description

◆ **High-performance of both hardware and software**

This 10G PoE switch uses top-rated 10G network switching chip, multiple layers PCB design, as well as self-developed switch software system. With combination of hardware and software, it improves product quality from forwarding stability, packet processing speed, and other work capability.

◆ **Support the fast ring network protocol, free configuration**

The switch supports stable and reliable fast Ring Protection Protocol(RSTP). It Achieved real ring loop redundancy protection. Besides, there is no need to configure 10G port when users using this switch, to reduce probability of network failure.

◆ **Strong network security**

Support dynamic or static binding by users' definition, such as IP, MAC, VLAN, PORT, etc. Support port isolation, to prevent communication between two neighbor network equipment within the same broadcast domain , for reducing network risk; Supports perfect storm control function which can suppress broadcast, multi-cast, and uni-cast storm; Support specific ARP inspection which can effectively prevent ''ARP spoofing attack'' created by hackers or attackers via ARP packets.

◆ **Convenient management and maintenance**

By easy WEB interface(http and https protocol supported), you can conveniently operate and configure all kinds of function in this switch. Support management by CLI, Telnet, Console port, which is more suitable for professional network administrator; It also allow reset by one-press, making maintenance easier.

Product Specification

Model	ONV-POE36048PFM
Ports	48x 10/100/1000M RJ45 ports
	4x 10G SFP+
Management port	1x Console port
Reset key	1x Reset key, for restore default settings
Bandwidth	180G
Packet Forwarding Rate	131Mpps @ 64byts
Operating temperature	-20~+55°C
Input voltage	AC: 110～240V/50～60Hz
Total power consumption	650W

Technical Characteristic

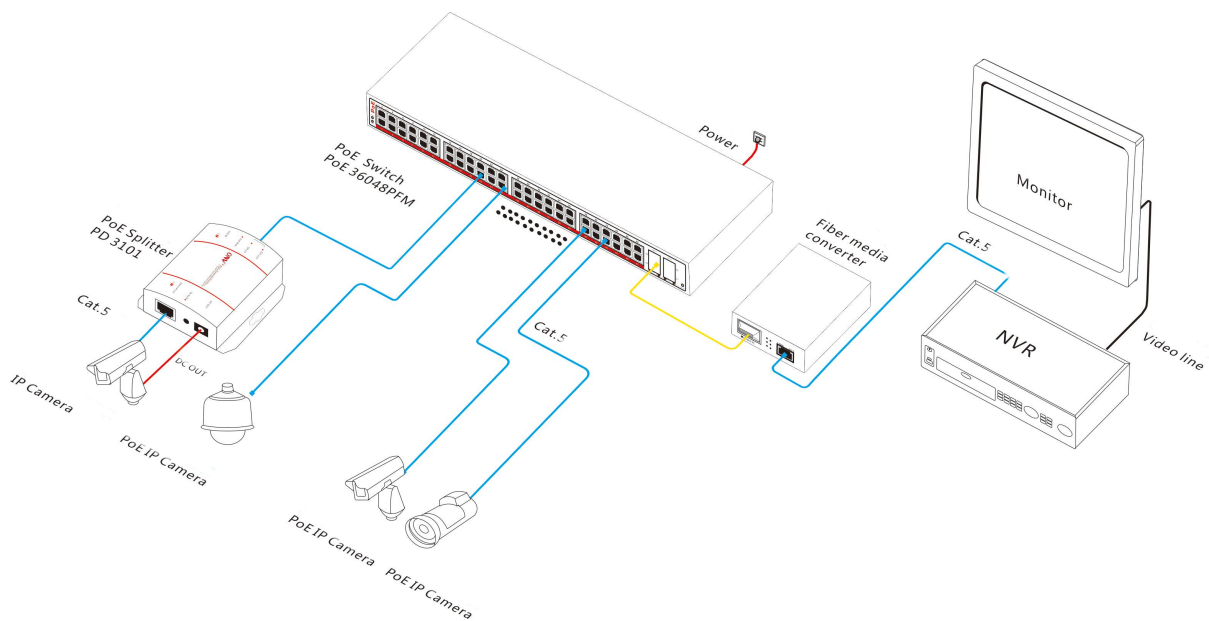| Model	ONV-POE36048PFM
Protocol & Standard	IEEE 802.3,10BASE-T Ethernet;
	IEEE 802.3u, fast Ethernet Standard;
	IEEE 802.3ab, gigabit Ethernet Standard;
	IEEE 802.3z, gigabit Ethernet Fiber Standard;(AOC fiber cable)
	IEEE 802.3ae,10G Ethernet Standard;
	IEEE 802.3x, full-duplex Ethernet data link layer flow control;
MAC	32K
	supports automatic updates, two-way learning;
SRAM Buffer	32Mb
VLAN	Support up to 4K VLAN;
	Support port-based VLAN;
	Support 802.1Q tag-based VLAN;
Spanning Tree	STP, RSTP, MSTP
Port Aggregation (TRUNK)	Support 4x 10G ports aggregation, support 16x gigabit ports aggregation
	Support 26x groups aggregation

Port Mirroring	Support multiple to single Port mirroring, no limit for quantity of mirroring source ports
Port Isolation	Support downstream ports isolated from each other, while opening communication with upstream ports
Port Flow Control	Support half-duplex back pressure based control;
	Support full-duplex PAUSE frame based control;
Port Speed Limit	Support port-based input/output bandwidth management
Storm Control	Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port
	Support port storm threshold setting
Security Features	Hardware support port-based IP+MAC Binding; Hardware support port-based ARP inspection detection;
QOS	SP (Strict Priority);
	WFQ (Weighted Fair Queuing);
	WRR (Weighted Round Robin);
	Head Of Line;
	Best-Effort Service;
	First come first served;
	802.1p;
	Cos/Tos, QOS;
	Differentiated Service;
Network Cable Line Sequence	Support Auto-MDIX, automatic Identification straight-through cable and crossover cable
cable diagnosis	Support cable diagnosis, Cable quality (differential pair impedance 85ohm ~ 125ohm), cable length, a short-circuit line
Negotiation Mode	Support port auto-negotiation function (auto-negotiation transmission rate and duplex mode)
System Maintenance	Support configuration file upload/download;
	Support update packet upload;
	Support WEB reset;
	Reset by pressing key;
	Support system log save/output;
Network Management	Support WEB management ;
	Support CLI management ;

<div style="background:red">**Dimension**</div>

290mm

44.5mm

440mm

A

B

C

D

ACIN 100-240V
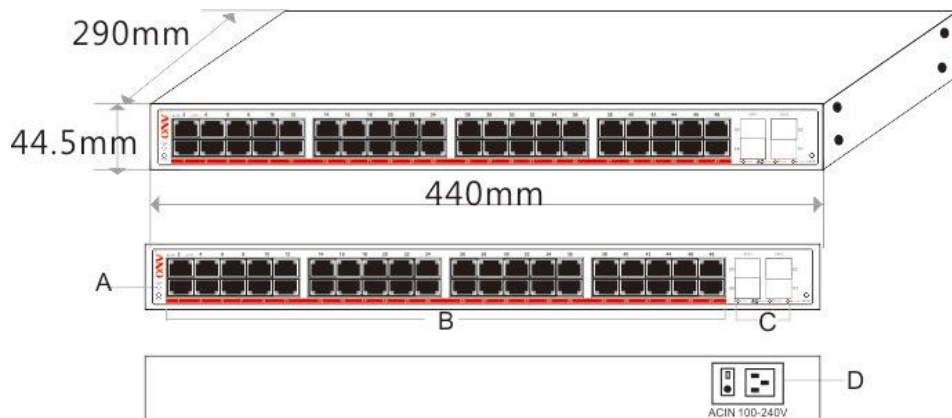
A. Working LED Indicator
B. 48*PoE Ports
C. SFP Fiber Port
D. Power Input Port-AC100-240V,50/60Hz

<div style="background:red">**Application**</div>

PoE Switch
PoE 36048PFM

Power

PoE Splitter
PD 3101

Cat.5

DC OUT

IP Camera

PoE IP Camera

Cat.5

PoE IP Camera   PoE IP Camera

Fiber media
converter

Monitor

Cat.5

NVR

Video line

ONV®   >> www.onvcom.com   >> 0755-33376606

Ordering Information

Product Model: ONV-POE36048PFM

Product Description: 48-port 10G Managed Ring PoE Switch, 48x 10/100/1000M RJ45 (PoE) + 4x 10G SFP+, Port 1-48 supports PoE, compliant with both IEEE 802.3af/at standard. Max PoE port power: 30W, can be set by management system. Total input power is 650W.

Note: Default power supply pin type is end-span(1/2+, 3/6-), mid-span(4/5+, 7/8-) is optional

Packing List

Packing List	48-port 10G Managed Ring PoE Switch (ONV-POE36048PFM)
	Power Cable
	Mounting Kits
	User Guide
	Warranty Card

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