![i-Net Networks logo]

44-port 10G Managed Ring PoE Switch

(POE38448PFM)

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◆The standard L3+ layer3 non blocking switching scheme is designed with better management, security, QoS and other performance.

◆Support 12*10/100/1000M RJ45 port + 28*10/100/1000M SFP port + 4* 10G SFP+ network management L3 PoE switch, port1-8 support PoE function, 4 ports independently support SFP+10G optical fiber

◆Support 802.1Q VLAN, port image, port isolation, IGMP Snooping function, DHCP Snooping function, LLDP, POE management, IP source protection, ARP detection, access control list etc.

◆Support spanning tree STP (802.1D) and RSTP (802.1w).

OVERVIEW

POE38448PFM this L3 managed PoE switch provides a reliable infrastructure for your enterprise network. It provides more intelligent functions that you need to improve key business applications, protect your sensitive information, and optimize your network bandwidth to provide information and applications more effectively. It provides a cost-effective, entry level networking solution for industrial enterprises, small businesses, or large enterprises that need monitoring, IP telephones, IP cameras and wireless applications, and thus helps you create a more efficient network application.

In short, it provides extremely high quality safety, performance, service, central management and other network control functions. Advanced customization design and affordable price are the most suitable solutions for SMEs or entry-level enterprises. It has passed rigorous testing and has excellent performance. As a management exchange solution, it also provides management flexibility and priority for bandwidth traffic, such as voice. In addition, it is safe to move forward and strictly controls the unauthorized user protection network for you.

Product Description

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

This 10G L3 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)/MSTP.. 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	POE38448PFM
Ports	12*10/100/1000M RJ45 port + 28*10/100/1000M SFP ports
	4x 10G SFP ports
Management port	1x Console port
Reset key	1x Reset key, for restore default settings
Switching Capacity	598G
Packet Forwarding Rate	131Mpps @ 64byts
Operating temperature	-20~+55°C

Performance			
Exchange capacity and forwarding rate	Model	The capacity of millions of packets per second (MPPS) (64 byte data packet)	Exchange capacity of Gigabit (Gbps) per second
	POE38448PFM	119.04	598

Layer3 Switch	
Spanning tree protocol (STP)	standard spanning tree 802.1d Fast spanning tree (RSTP) 802.1w
Link aggregation	Link aggregation control protocol (LACP) IEEE802.3ad; Up to 8 groups, with a maximum of 16 ports in each group
VLAN	Supports up to 4K VLAN (4094 VLAN ID). Port based VLAN; VLAN of 802.1Q markup

| DHCP allocation	It prevents customers from configuring and using IP address, while providing support for IP source protection and ARP detection.
IGMP v1/v2 snooping	IGMP limits bandwidth intensive multicast traffic to the requester only; supports 1024 multicast groups (and does not support specific source multicast).
security	
Secure shell (SSH) protoco	SSL encrypts HTTP traffic to secure access to the browser based management GUI of switches.
Secure Sockets Layer (SSL), HTTPS	SSL encrypts HTTP traffic to secure access to the browser based management GUI of switches.
Port security	lock MAC address on port and restrict MAC address learning number.

Technical Characteristic

Model	POE38448PFM
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 ;

Dimension
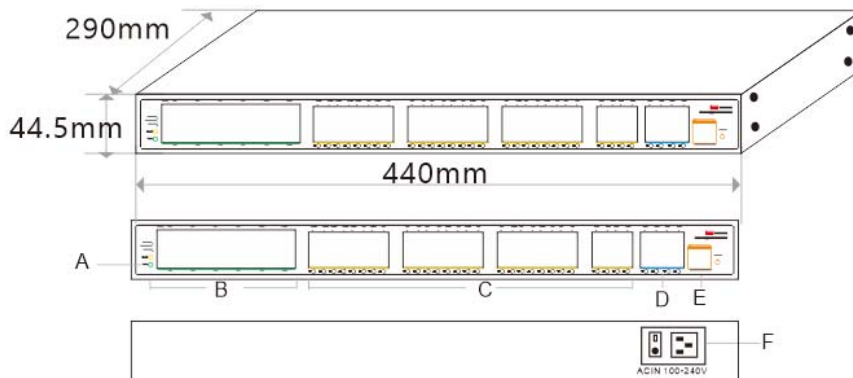
A.working indictor
B. 12*RJ45 ports
C. 28*10/100/1000MSFP ports   D.4*10G SFPports
E.Control the mouth   F.AC100-240V,50/60Hz

Application
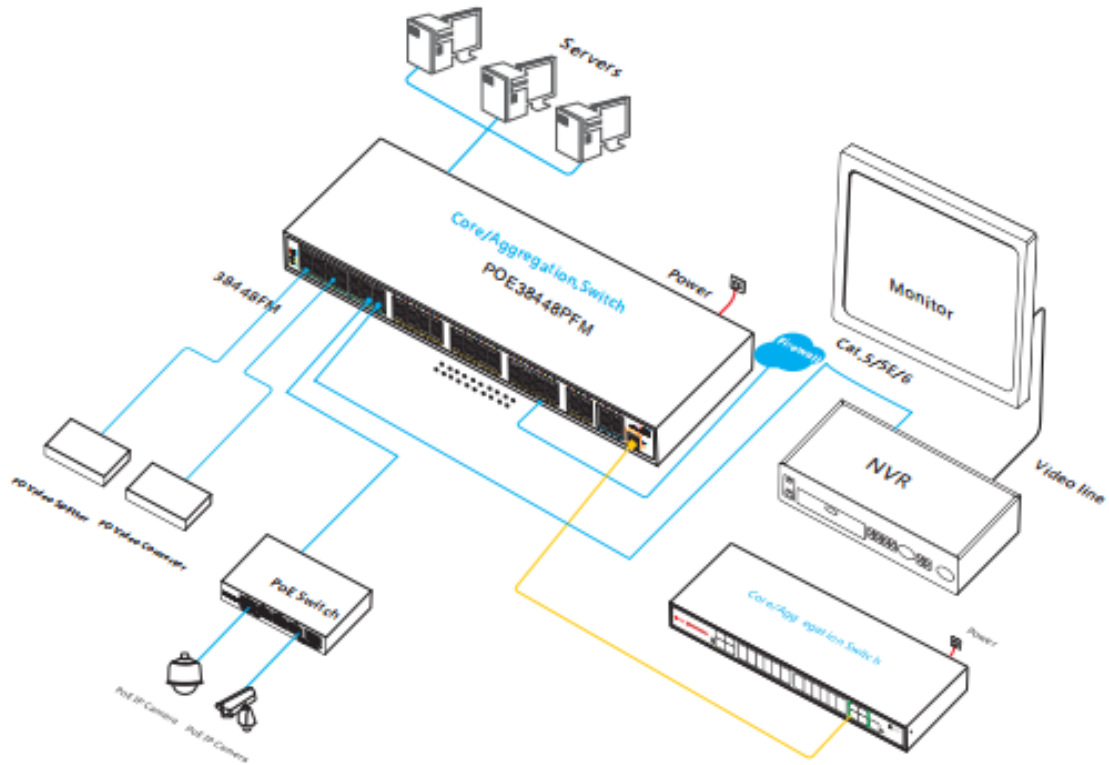
Ordering Information

Product Model: POE38448PFM

Product Description: 44-port 10G Managed Ring PoE Switch, 12x 10/100/1000M RJ45 (PoE) +28*1000M   SFP + 4x 10G SFP+,   Port 1-12 supports PoE, compliant with both IEEE 802.3af/at standard. Max PoE port power: 30W, can be set by management system. **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	44-port 10G Managed Ring PoE Switch (POE38448PFM)
	Power Cable
	Mounting Kits
	User Guide
	Warranty Card