

10-port Full Gigabit Managed PoE Switch

ITM-POE33010PFM



OVERVIEW

The ITM-POE33010PFM series is a full gigabit L2+ managed PoE fiber switch. It has 8*10/100/1000Base-T RJ45 ports and 2*100/1000Base-X SFP fiber slot ports. Port 1-8 can support IEEE802.3af/at standard PoE power supply. single port PoE power reaches 30W, and the maximum PoE output power is 130W(at-250W). As a PoE power supply device, it can automatically detect and recognize the power receiving equipment that meets the standard and supply power through the network cable. It can supply power to POE terminal equipment such as wireless AP, webcam, VoIP phone, building visual access control intercom through network cable, to meet the network environment that needs high-density PoE power supply, suitable for hotels, campuses, parks, supermarkets, scenic spots, Factory quarters and SMB small and medium-sized enterprises form a cost-effective network.

The POE33010PFM has L2+ full network management, support IPV4 management, static route full line rate forwarding, security protection mechanism, complete ACL/QoS policy and rich VLAN

functions, and is easy to manage and maintain. Supports multiple network redundancy protocols STP/RSTP/MSTP (<50ms) to improve link backup and network reliability. When one-way network fails, communication can be quickly restored to ensure important Uninterrupted communication for applications. According to the actual application requirements, you can configure multiple application services such as PoE power management, port traffic control, VLAN division, and SNMP through the Web network management mode.

FEATURE

■ Gigabit access, Gigabit SFP fiber port uplink

- ◇ All series support “Gigabit Ethernet port and Gigabit SFP port” combination, which enables users to flexibly build networking to meet the needs of various scenarios.
- ◇ Support non-blocking wire-speed forwarding.
- ◇ Support full-duplex based on IEEE802.3x and half-duplex based on backpressure.

■ Intelligent PoE power supply

- ◇ 8*10/100/1000Base-T RJ45 ports, meeting the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.
- ◇ IEEE802.3af/at PoE standard, without damaging non-PoE devices.
- ◇ Priority system for PoE port, it will supply power to the high priority level port first when the power budget is insufficient and avoid overwork of the device.
- ◇ PoE network management, realize PoE port power allocation, priority setting, port power status viewing, time scheduling, etc.

■ Strong business processing capability

- ◇ IEEE802.1Q VLAN, flexible VLAN division.
- ◇ QoS, Priority mode based on 802.1P, Port & DSCP, queue scheduling algorithm including Equ, SP, WRR & SP+WRR.
- ◇ ALC, filter data packet through configuring matching rules, processing operation & time permission, and provide flexible and safe access control.

- ◇ IGMP V1/V2 and IGMP Snooping.
- ◇ STP/RSTP/MSTP.
- ◇ Static and dynamic aggregation.

■ **Security**

- ◇ 802.1X authentication.
- ◇ Port isolation, Storm control.
- ◇ IP-MAC-VLAN-Port binding.

■ **Stable and reliable**

- ◇ Low power consumption, galvanized steel casing, The Fan active cooling.
- ◇ Self-developed power supply, high redundancy design, providing a long term and stable PoE power output.
- ◇ CCC, CE, FCC, RoHS.
- ◇ The user-friendly panel, it can show the device status through the LED indicator of PWR, Link, PoE.

■ **Easy operation and maintenance management**

- ◇ Web management, CLI command line (Console, Telnet), SNMP (V1/V2/V3).
- ◇ HTTPS, SSLV3, and SSHV1/V2.
- ◇ RMON, system log, LLDP, and port traffic statistics.
- ◇ CPU monitoring, memory monitoring, Ping test, and cable diagnose.

TECHNICAL SPECIFICATION

Model	ITM-POE33010PFM	ITM-POE33010PFM-at
Interface Characteristics		
Fixed Port	8*10/100/1000Base-T PoE ports (Data/Power) 2*100/1000Base-X uplink SFP slot ports (Data) 1 * RS232 console port(115200,N,8,1)	
Ethernet Port	10/100/1000Base-T(X), auto-sensing, full/half duplex MDI/MDI-X self-adaption	
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-TX: Cat5 or later UTP(≤100 meter) 1000BASE-T: Cat5e or later UTP(≤100 meter)	
SFP Slot Port	Gigabit SFP optical fiber interface, default matching optical modules (optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC)	
Optical Cable/ Distance	Multi mode: 850nm / 0 ~ 500M, single mode: 1310nm/ 0 ~ 40KM, 1550nm /0 ~ 120KM.	
Chip Parameter		
Network Management Type	L2+	
Network Protocol	IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3u 100Base-TX; IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-X IEEE802.3x	
Forwarding Mode	Store and Forward(Full Wire Speed)	

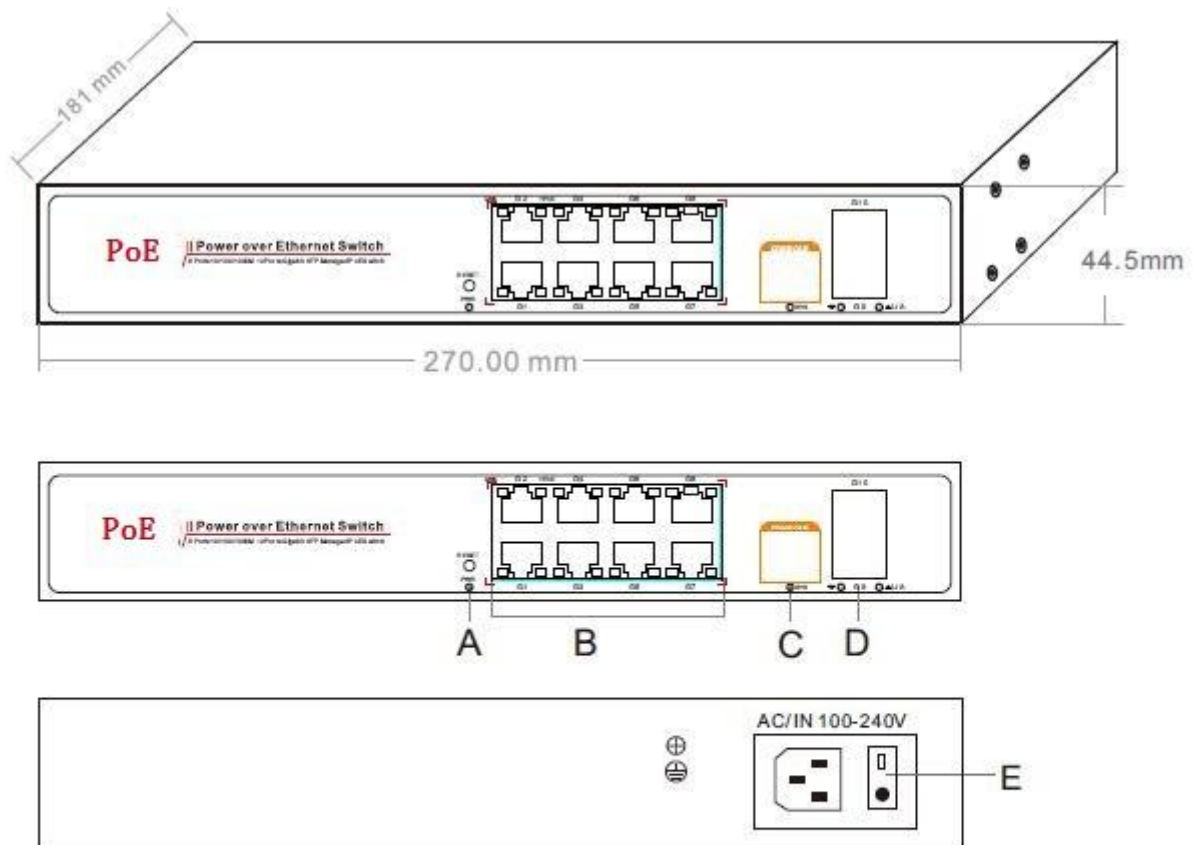
Switching Capacity	56Gbps	
Forwarding Rate@64byte	14.88Mpps	
MAC	8K	
Buffer Memory	4.1M	
Jumbo Frame	10K	
LED Indicator	Power:PWR (yellow), system :SYS (green), network ;Link/Act (yellow), POE: PoE (green), Fiber port: L/A(green)	
Reset Switch	Yes, One-button factory reset	
PoE & Power		
PoE Port	Port 1 to 8 IEEE802.3af/at @ POE	
PoE Management	Total power limit of PoE power supply PoE output power allocation, off& af &at PoE output priority configuration PoE working status Delay start of power supply Scheduling of PoE operation and time	
Power Supply Pin	Defaul 1/2 (+), 3/6 (-)	
Max Power Per Port	30W; IEEE802.3af/at	
Total PWR / Input Voltage	130W (AC100-240V)	250W (AC100-240V)
Power Consumption	Standby:<8W;Full load:<120W	Standby:<10W;Full load:<240W
Power Supply	Built-in power supply, AC 100~240V 50-60Hz 2.3A	Built-in power supply, AC 100~240V 50-60Hz 4.1A
Physical Parameter		
Operation TEMP / Humidity	-20~+55°C;5%~90% RH Non condensing	
Storage TEMP / Humidity	-40~+75°C;5%~95% RH Non condensing	

Dimension (L*W*H)	270*181*44.5mm
Net /Gross Weight	<1.7kg / <2.2kg
Installation	Desktop, 19 inch 1U cabinet
Certification & Warranty	
Lightning protection / protection level	Lightning protection: 4KV 8/20us; Protection level: IP30
Certification	CCC;CE mark, commercial; CE/LVD EN60950;FCC Part 15 Class B; RoHS;
Warranty	3 years, lifelong maintenance.
Network Management Features	
Interface	IEEE802.3X (Full-duplex) Broadcast storm control based on port speed Port real-time traffic management (Flow Interval) The speed limit of the message flow in the access port. The minimum particle size is 1Gbps.
Layer 3 Features	L2+ Network management IPV4 management Static route, Default route @ 128 pcs, APR @ 1024 pcs
VLAN	VLAN based on the protocol 4K VLAN based on port, IEEE802.1q Port configuration of Access, Trunk, Hybrid
Port Aggregation	LACP, Static aggregation Max 5 aggregation groups and 8 ports per group.
Spanning Tree	STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)
Multicast	IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out Multicast VLAN
Port Mirroring	Bidirectional data mirroring based on port
QoS	Flow-based redirection Flow-based rate limiting

	<p>Flow-based packet filtering</p> <p>8*Output queues of each port</p> <p>802.1p/DSCP priority mapping</p> <p>Diff-Serv QoS,Priority Mark/Remark</p> <p>Queue Scheduling Algorithm (SP, WRR, SP+WRR)</p>
ACL	<p>Port-based Issuing ACL</p> <p>ACL based on port and VLAN</p> <p>L2 to L4 packet filtering, matching first 80 bytes message. Provide ACL based on MAC, Destination MAC address, IP Source, Destination IP, IP Protocol Type, TCP/UDP Port, TCP/UDP Port Range, and VLAN, etc.</p>
Security	<p>IP-MAC-VLAN-Port binding</p> <p>ARP inspection,Anti-DoS attack</p> <p>AAA & RADIUS,MAC learning limit</p> <p>Mac black holes,IP source protection</p> <p>Broadcast storm control,Backup for host datum</p> <p>SSH 2.0,SSL,Port isolation,ARP message speed limit</p> <p>User hierarchical management and password protection</p>
DHCP	<p>DHCP Client,DHCP Snooping,DHCP Server</p>
Management	<p>One-key recovery</p> <p>Cable Diagnose,LLDP</p> <p>Web Management (HTTPS)</p> <p>NTP,System work log,Ping Test</p> <p>CPU instant utilization status view</p> <p>Console/AUX Modem/Telnet/SSH2.0 CLI</p> <p>NMS - Smart Network Management System Platform (LLDP+SNMP)</p> <p>Download & Management on FTP, TFTP, Xmodem, SFTP,SNMP</p> <p>V1/V2C/V3</p>
System	<p>Category 5 Ethernet network cable</p> <p>Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42</p>

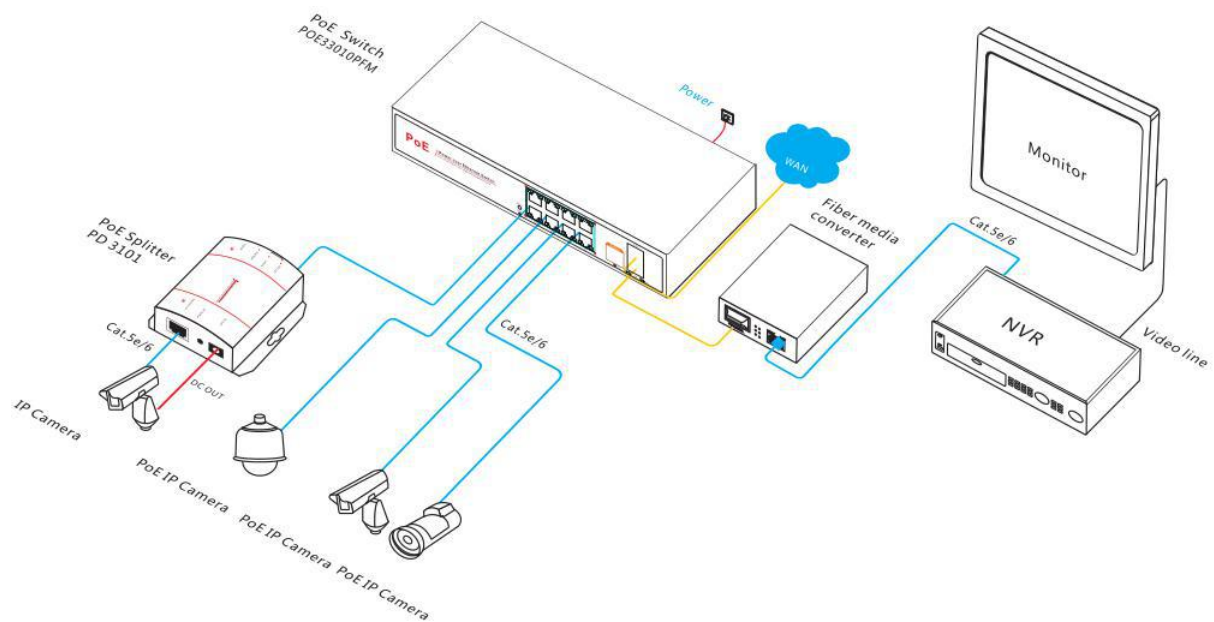
or higher, Microsoft Internet Explorer10 or later;
TCP/IP, network adapter, and network operating system (such as
Microsoft Windows, Linux, or Mac OS X) installed on each computer in a
network

DIMENSION



- A. Working indicator
- B. 8* PoE ports
- C. Console port
- D. 2*Gigabit SFP ports
- E. AC power input port 100-240v, 50/60Hz

APPLICATION



ORDERING INFORMATION

Model	Description
ITM-POE33010PFM	L2+ managed PoE fiber switch with 8* 10/100/1000M RJ45 ports and 2*100/1000M SFP fiber slot ports, Port 1-8 can support IEEE802.3af/at PoE standard, Built-in 130W power supply.
ITM-POE33010PFM-at	L2+ managed PoE fiber switch with 8* 10/100/1000M RJ45 ports and 2*100/1000M SFP fiber slot ports, Port 1-8 can support IEEE802.3af/at PoE standard, Built-in 250W power supply.

Note: PoE switch does not match SFP module by default.

PACKING LIST

Packing List	CONTENT	QTY	UNIT
	10-port full gigabit managed PoE switch	1	SET
	RJ45-DB9 Line	1	PC
	AC Power Cable	1	PC
	Mounting Kits (Hanging Ear)	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

OPTICAL MODULE INFORMATION

Product	Model	Description	Unit
1.25G Optical Module	2630	SFP optical module, 1.25G, multi mode dual fiber 850nm, transmission distance: 550m, LC interface, support DDM function, support hot plug and pull.	PC
	2632	SFP optical module, 1.25G, single-mode dual fiber 1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC
	2612-T	SFP optical module, 1.25G, single-mode single fiber TX1310nm/RX1550nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC
	2613-R	SFP optical module, 1.25G, single-mode single fiber TX1550nm/RX1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC
	2612-T-SC	SFP optical module, 1.25G, single-mode single fiber TX1310nm/RX1550nm, transmission distance: 20km, SC	PC

		interface, support DDM function, support hot plug and pull.	
	2613-R-SC	SFP optical module, 1.25G, single-mode single fiber TX1550nm/RX1310nm, transmission distance: 20km, SC interface, support DDM function, support hot plug and pull.	PC
Power Module	2633	1.25G SFP optical module transfers to 10/100/1000M RJ45 port.	PC

RELATED PRODUCT

Model	Description
ITM-POE33020PFM	L2+ managed PoE fiber switch with 16*10/100/1000M RJ45 ports and 4*10/1000M SFP slot ports, Port 1-16 can support IEEE802.3af/at PoE. Built-in 250W power supply.
ITM-POE33028PFM	L2+ managed PoE fiber switch with 24* 10/100/1000M RJ45 ports and 4*100/1000M SFP fiber slot ports, Port 1-24 can support IEEE802.3af/at PoE standard, Built-in 400W power supply.
ITM-POE36036PFM	L2+ managed PoE fiber switch with 24*10/100/1000M RJ45 ports and 8*100/1000M SFP slot ports and 4*1/10G SFP+ slot ports, Port 1-24 can support IEEE802.3af/at PoE. Built-in 400W power supply.
ITM-POE36048PFM	L2+ managed PoE fiber switch with 48*10/100/1000M RJ45 ports and 4*1/10G SFP+ slot ports, Port 1-48 can support IEEE802.3af/at PoE. Built-in 600W power supply.
ITM-POE36448PFM	L2+ managed PoE fiber switch with 12*10/100/1000M RJ45 ports and 28*100/1000M SFP slot ports and 4*1/10G SFP+ slot ports, Port 1-8 can support IEEE802.3af/at PoE. Built-in 400W power supply.