18 Port Managed

PoE Switch

PLN-M1116MGB-SF

10/100 Mbps
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Overview:

The **PLN-M1116MB-SF** is a Gigabit uplink managed PoE fiber switch independently developed by Pollo. It has 16*10/100M RJ45 ports and 2*10/100/1000MRJ45 ports and2*100/1000M SFP fiber slot ports (combo port), Port 1-16 can support IEEE802.3af/at standard PoE power supply, and single port PoE power reaches 30W. The maximum PoE output power is 400W and each port can realize line-speed forwarding. The PLN-M1116MB-SF adopts a new generation of high-performance hardware and software platforms to provide flexible and cost-effective 100Mbps access and uplink ports. It supports complete security protection mechanisms, complete ACL/QoS policies, and flexible VLAN functions, and is easy to manage and maintain. As a PoE power supply device, it can automatically detect and identify 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, visual intelligent building intercom through the network cable, and meet the network environment that needs high-density PoE power supply. It is suitable for hotels, supermarkets, factory quarters and small and medium-sized enterprises form a cost-effective network.

FEATURES:

100Mbps access, Gigabit (TP/SFP) combo port uplink

- All series supports "10/100M Ethernet port and Gigabit TP/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

- 16*10/100Base-TX RJ45 ports, meeting the needs of security monitoring, tele conferencing system, wireless coverage, and other scenarios.
- IEEE 802.3af/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, Voice VLAN, and Q In Q configuration.
- 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
- ERPS/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, no fan mute design, galvanized steel metal casing.
- 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.
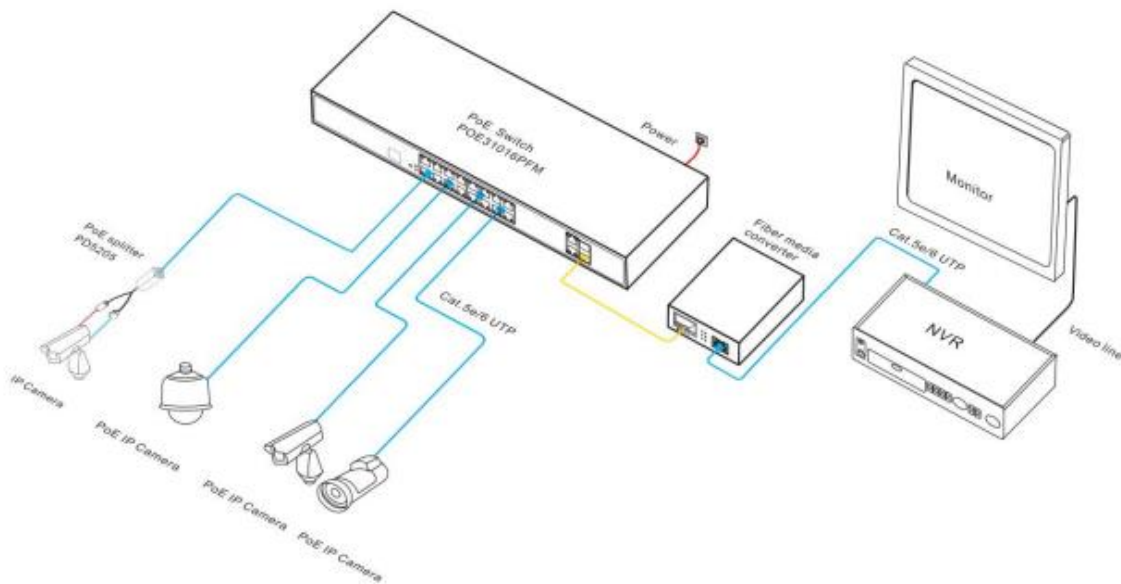
Easy operation and maintenance management

- 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.

DIMENSION
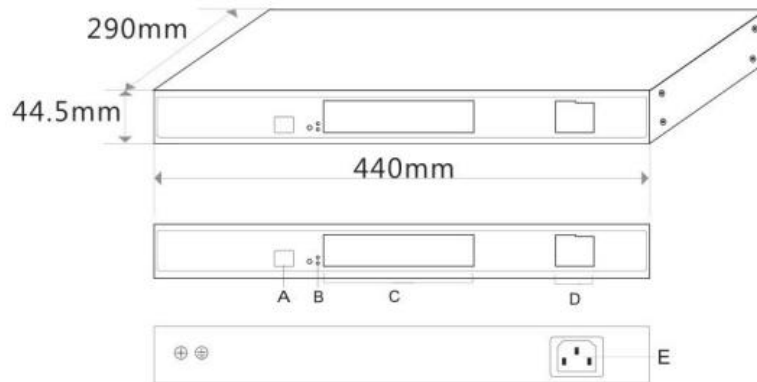
A. Console Port
B. Working Indicator
C. 16*10/100M PoE Ports
D. 2*10/100/1000M Combo Ports
E. Power Input Port AC100-240V,50/60Hz

APPLICATION

TECHNICAL SPECIFICATION

Model	PLN-M1116MGB-SF
Fixed Port	16*10/100Base-TX PoE ports (Data/Power) 2*10/100/1000Base-T uplink RJ45 ports (Data) 2*1000M uplink SFP fiber slot ports (Data)(Combo port) 1*Console port (command line)
Ethernet Port	Port 1-16 support 10/100Base-TX, port 17-18 support 10/100/1000Base-T auto-sensing, full/half duplex MDI/MDI-X self-adaption
Functional Switch	1*(Extender+ CCTV) Note: when the switch state changes, it must be restarted before the PoE switch function can take effect
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	Multi-mode: 850nm 0 ~ 550M, single-mode: 1310nm0 ~ 40KM, 1550nm0 ~ 120KM.
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	64Gbps (non-blocking)
Forwarding Rate@64byte	5.36Mpps
MAC	16K
Buffer Memory	4M
Jumbo Frame	10K
LED Indicator	Power: PWR (green), Data: Link, Link/Act (yellow), PoE: PoE(green), Speed: SPD (green
PoE Port	Port 1 to 16 IEEE802.3af/at @ POE
PoE Management	PoE working status Delay start of power supply PoE output priority configuration Scheduling of PoE operation and time
Power Supply Pin	Default :1/2 (+), 3/6 (-), optional:4/5 (+), 7/8 (-)
Max Power Per Port	30W; IEEE802.3af/at
Total PWR / Input Voltage	400W (AC100-240V)
Power Consumption	Standby:<380W
Power Supply	Built in power supply, AC100~240V50-60Hz 5.0A
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)	440*225*44mm
Net /Gross Weight	<3.5kg

Installation	Desktop, wall mounted,19-inch 1U cabinet installation
Lightning protection / protection level	Port lightning protection: 4KV 8/20us, Protection level: IP30
Certification	CCC; CE mark, commercial; CE/LVD EN60950; FCC Part 15 Class B; RoHS

NETWORK MANAGEMENT FEATURES

Interface	IEEE802.3X (Full-duplex) Broadcast storm control based on port speed The speed limit of the message flow in the access port. The minimum particle size is 64Kbps.
VLAN	Q In Q configuration VLAN based on protocol 4K VLAN based on port, IEEE802.1q
Port Aggregation	LACP, Static aggregation Max 8 aggregation groups and 8 ports per group.
Spanning Tree	STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)
Multicast	MLD Snooping v1/v2, Multicast VLAN IGMP Snoopingv1/v2/v3, Max 64 multicast groups, Fast log out
Image	Bi-directional traffic mirroring supporting the basic port
QoS	8*Output queues of each port 802.1p/DSCP priority mapping Diff-Serv QoS, Priority Mark/Remark Queue Scheduling Algorithm (SP, WRR, SP+WRR)
ACL	Port-based Issuing ACL 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.
Security	Port isolation, Storm control. IP-MAC-VLAN-Port binding
DHCP	DHCP Client, DHCP Snooping, DHCP Relay
Management	NTP SNMP V1/V2C/V3 One-key recovery System work log Web Management (HTTPS)