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10-Port Megabit PoE Network Switch

PLN-1108MB

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DATASHEET

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Overview:

The **PLN-1108MB** is a 10/100Mbps unmanaged PoE switch. it has 8*10/100M PoE ports and 2*10/100M uplink RJ45 ports, Port 1-8 can support IEEE802.3af/at standard PoE power supply, single port PoE power up to 30W, and the maximum POE output power is 100W. 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, video access control intercom, etc. through network cable to meet the network environment that needs high-density PoE power supply. It is suitable for hotels, campuses, factory quarters and small and medium-sized enterprises to form an economy efficient network.

Key Features:

- 8 × 10/100Base-TX PoE ports for data and power delivery
- 2 × 10/100Base-TX uplink RJ45 ports for network connection
- All ports support auto-detection, full/half-duplex, MDI/MDI-X
- Built-in Extender + CCTV mode functional switch
- Extended transmission up to 250 meters on Cat5 or higher cable
- Compliant with IEEE 802.3 / 802.3u / 802.3x standards
- Store-and-forward switching with full wire-speed performance
- 2 Gbps non-blocking switching capacity
- 1.488 Mpps forwarding rate 64-byte packets
- 1K MAC address table with 768 KB buffer memory
- Supports IEEE 802.3af/at PoE on ports 1–8
- Maximum 30 W per PoE port
- Total PoE power budget up to 100 W
- Built-in AC power supply (100–240 V, 50/60 Hz)
- Low power consumption: <5 W standby, <100 W full load
- LED indicators for power, link, PoE, and extender status
- Operating temperature range -20°C to +55°C
- Desktop and wall-mount installation options
- 4 KV lightning protection, IP30 protection level
- Certified with CCC, CE, FCC, RoHS

FEATURES:

10/100Mbps access, Dual RJ45 port uplink

- Provides 8*10/100Base-TX RJ45 ports and 2*10/100Base-TX RJ45 ports for flexible networking and meets the networking requirements of various scenarios.
- All ports support non-blocking wire-speed forwarding for smoother transmission.
- Support IEEE 802.3x full-duplex flow control and Backpressure half-duplex flow control.

Intelligent PoE power supply

- 8*10/100Base-TX RJ45 ports, meeting the needs of security monitoring, teleconferencing 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.

· Innovative function

- Long distance file: When opening, the speed of 1-8 port is reduced to 10M. With the existing twisted pair cable, the transmission limit of the twisted pair line can be broken, and the transmission distance can reach 250 meters; on the other hand, it can solve the problem of poor transmission caused by line aging.
- Video monitoring mode: Open with the long-distance switch, 1-8 ports are isolated from each other but communicate with 9-10 ports to prevent DHCP conflicts, optimize port cache utilization, and reduce broadcast storms.

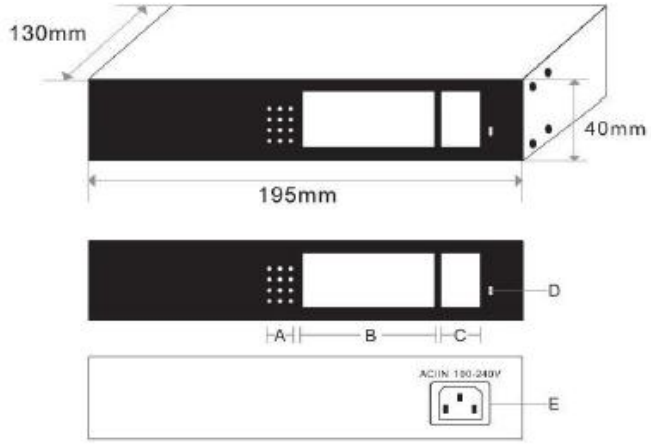
Stable and reliable, easy to use

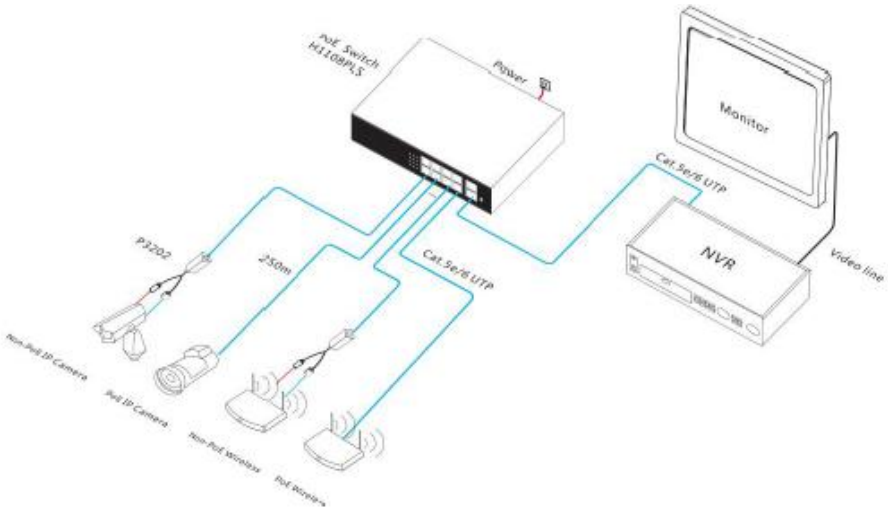
- CCC, CE, FCC, RoHS.
- Plug and play, no configuration, simple and convenient.
- Low power consumption, galvanized steel casing, no fan.
- The user-friendly panel, it can show the device status through the LED indicator of PWR, Link/Act, PoE.
- Self-developed power supply, high redundancy design, providing a long term and stable PoE power output.

TECHNICAL SPECIFICATION

Model	**PLN-1108MB**
Fixed Port	8*10/100Base-TX PoE ports (Data/Power) 2*10/100Base-TX uplink RJ45 ports (Data)
Ethernet Port	Port 1-10 can support 10/100Base-TX auto-detection, full/half-duplex MDI/MDI-X auto-sensing
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-TX: Cat5 or later UTP (≤250 meter)
	100BASE-TX: Cat5 or later UTP (≤100 meter)
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T
	IEEE802.3u 100Base-TX, IEEE802.3x
Forwarding Mode	Store and Forward (Full Wire Speed)
Switching Capacity	2Gbps (non-blocking)
Forwarding Rate@64byte	1.488Mpps
MAC	1K
Buffer Memory	768K
LED Indicator	Power: PWR (green), network: Link(yellow), PoE: PoE (green) Functional switch: EXTEND (green)
PoE Port	Port 1 to 8 IEEE802.3af/at @POE
Power Supply Pin	Default 1/2(+), 3/6(-), optional 4/5(+), 7/8(-) 2-pairs power supply
Max Power Per Port	30W, IEEE802.3af/at
Total PWR / Input Voltage	100W/ (AC100-240V)
Power Consumption	Standby <5W, Full load <100W
Power Supply	Built-in switching power supply, AC100~240V 50-60Hz 2.0A
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)	195*130*40mm
Net /Gross Weight	<0.8kg / <1.2kg
Installation	Desktop, wall mounted
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

DIMENSION



A. Working indicator B. 8*10/100M PoE ports
C. 2*10/100M uplink ports D. Functional switch
D. Power input port AC100-240,50/60Hz

APPLICATION