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10-Port Megabit PoE Network Switch with Gigabit Uplink

PLN-1108MGB

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DATASHEET

10-Port Megabit PoE Network Switch with Gigabit uplink

Overview:

The **PLN-1108MGB** series is a 10/100Mbps unmanaged PoE switch. it has 8*10/100M PoE ports and 2*10/100/1000M 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 120W. 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
- 2 × Gigabit uplink RJ45 ports (10/100/1000Base-T)
- Ports 1–8 support 10/100 Mbps, ports 9–10 support 10/100/1000 Mbps
- Full/half-duplex operation with MDI/MDI-X auto-adaptation
- Built-in Extender mode for long-distance transmission
- Extended transmission up to 250 m on Cat5 UTP
- Complies with IEEE 802.3 / 802.3u / 802.3x standards
- Store-and-forward switching with full wire-speed performance
- 11.8 Gbps non-blocking switching capacity
- 4.17 Mpps forwarding rate 64-byte packets
- 3K MAC address table with 2 MB buffer memory
- IEEE 802.3af/at PoE supported on ports 1–8
- Maximum 30 W per PoE port
- Total PoE power budget up to 120 W
- Built-in AC power supply (100–240 V, 50/60 Hz)
- Low power consumption: <5 W standby, <120 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: CCC, CE, FCC, RoHS

FEATURES:

10/100Mbps access, Gigabit dual RJ45 port uplink

- Provides 8*10/100Base-TX RJ45 ports and 2*10/100/1000Base-T 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 scenario.
- 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.

Innovative function

- Long distance file: When opening, the speed of port 1-8 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.

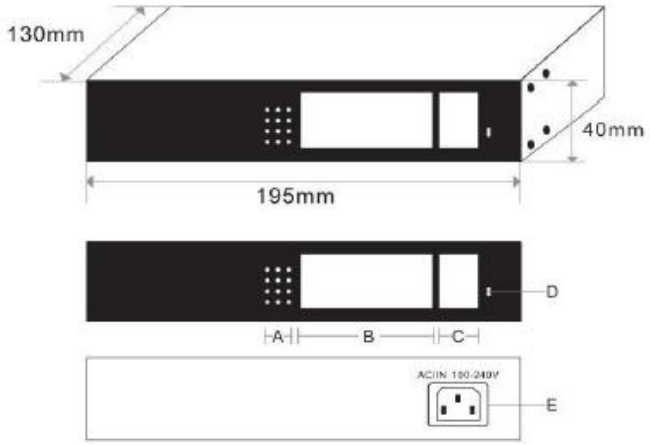
Stable and reliable, easy to use

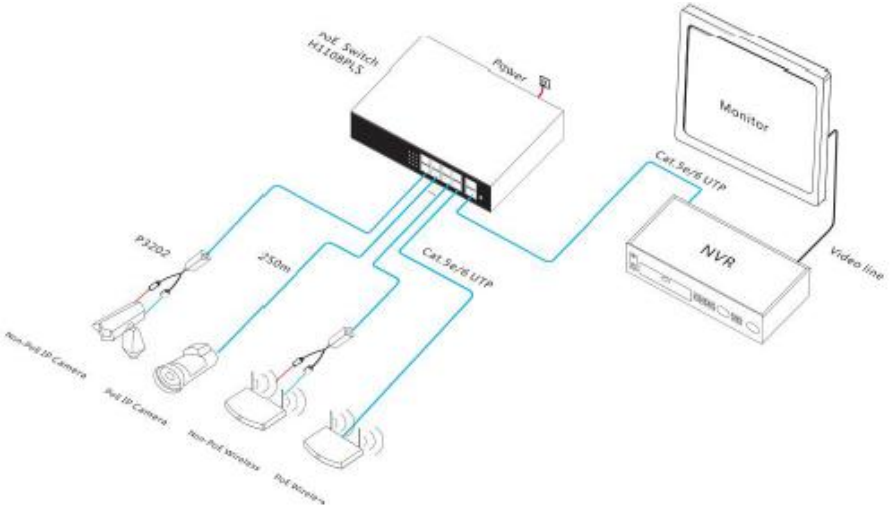
- CCC, CE, FCC, RoHS.
- Plug and play, no configuration, simple and convenient.
- Low power consumption, galvanized steel casing, no fan.
- The user-friendly panel, it can show the device status through the LED indicator of PWR, Link/Act, PoE.
- Self-developed power supply, high redundancy design, providing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

TECHNICAL SPECIFICATION

Model	**PLN-1108MGB**
Fixed Port	8*10/100Base-TX PoE ports (Data/Power)
	2*10/100/1000Base-T uplink RJ45 ports (Data)
Ethernet Port	Port 1-8 can support 10/100Base-T X auto detect, port 9-10 can support
	10/100/1000Base-T auto detect, full / half duplex MDI / MDI-X adaptive
Functional Switch	1*(Extender) 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 (≤250 meter)
	100BASE-TX: Cat5 or later UTP (≤100 meter)
	1000BASE-T: Cat5e 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	11.8Gbps (non-blocking)
Forwarding Rate@64byte	4.17Mpps
MAC	3k
Buffer Memory	2M
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	120W/ (AC100-240V)
Power Consumption	Standby <5W, Full load <120W
Power Supply	Built-in power supply, AC100~240V 50-60Hz 2.2A
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