20-Port Gigabit PoE Network Switch with Uplink & 2 SFP

PLN-1116GB-SFP

20-Port Gigabit PoE Network Switch with Gigabit uplink & 2SFP

Overview:

The **PLN-116GB-SFP** is a gigabit PoE fiber switch independently developed by POLLO. It has 18*10/100/1000M adaptive RJ45 ports and 2*1000M uplink SFP fiber ports. Port 1-16 can support IEEE 802.3 af/at PoE standard and single-port PoE power reaches 30W. 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, IP camera, VoIP phone, building visual access control intercom, etc. through a network cable, to meet the network environment that needs a high-density PoE power supply. It is suitable for hotels, campuses, factory dormitories, and small and medium-sized enterprises. Unmanaged model, plug and play, no configuration, easy to use.

Key Features:

- 16 × Gigabit PoE ports for data and power
- 2 × Gigabit RJ45 uplink ports
- 2 × Gigabit SFP fiber uplink ports
- Auto-sensing 10/100/1000Base-T with full/half duplex and MDI/MDI-X
- Supports Cat3–Cat5e UTP cabling up to 100 meters
- SFP ports support single-mode and multi-mode fiber (optional modules)
- Fiber transmission distance up to 120 km depending on module
- Comply with IEEE 802.3 / 802.3u / 802.3ab / 802.3z / 802.3x standards
- Store-and-forward switching with full wire-speed performance
- 56 Gbps non-blocking switching capacity
- 29.76 Mpps forwarding rate at 64-byte packets
- 8K MAC address table with 4 MB buffer memory
- Supports 9.6K jumbo frames
- IEEE 802.3af/at PoE with up to 30 W per port
- Total PoE power budget up to 250 W
- Built-in AC power supply (100–240 V, 50/60 Hz)

- LED indicators for power, network, PoE, and fiber status
- One-button factory reset support
- Desktop, wall-mount, or 19” 1U rack installation
- 4 KV lightning protection with IP30 protection level

FEATURES:

Full gigabit access

- Gigabit RJ45 ports and SFP fiber ports combination, high-speed high-bandwidth connection, to meet the networking needs of various scenarios.
- Support non-blocking wire-speed forwarding.
- Support full-duplex based on IEEE802.3x and half-duplex based on backpressure.

Smart PoE power supply function

- 16*10/100/1000Base-T RJ45 ports can support bt PoE power supply, meeting the demand for super high power PoE power supply in various scenarios.
- The maximum output power of single-port POE is 95W, and the backwards compatibility IEEE802.3af/at PoE power supply standard automatically identifies PoE devices for power supply 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.

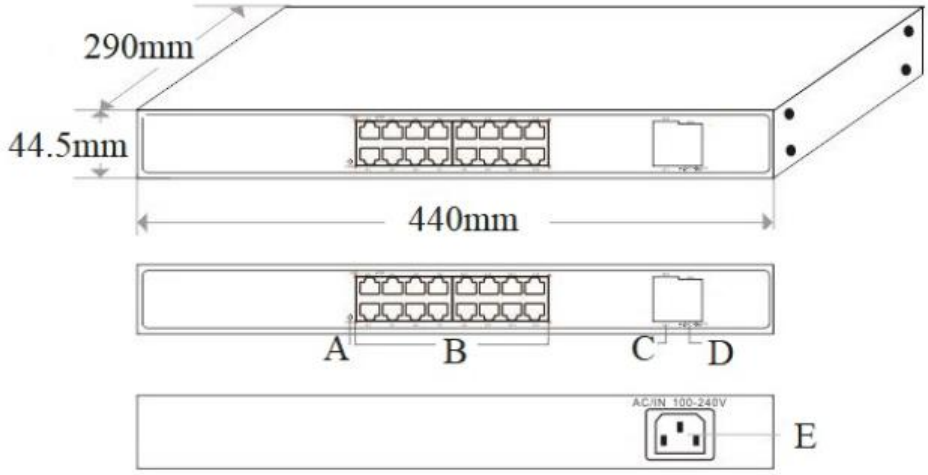
Stable and reliable, easy to use

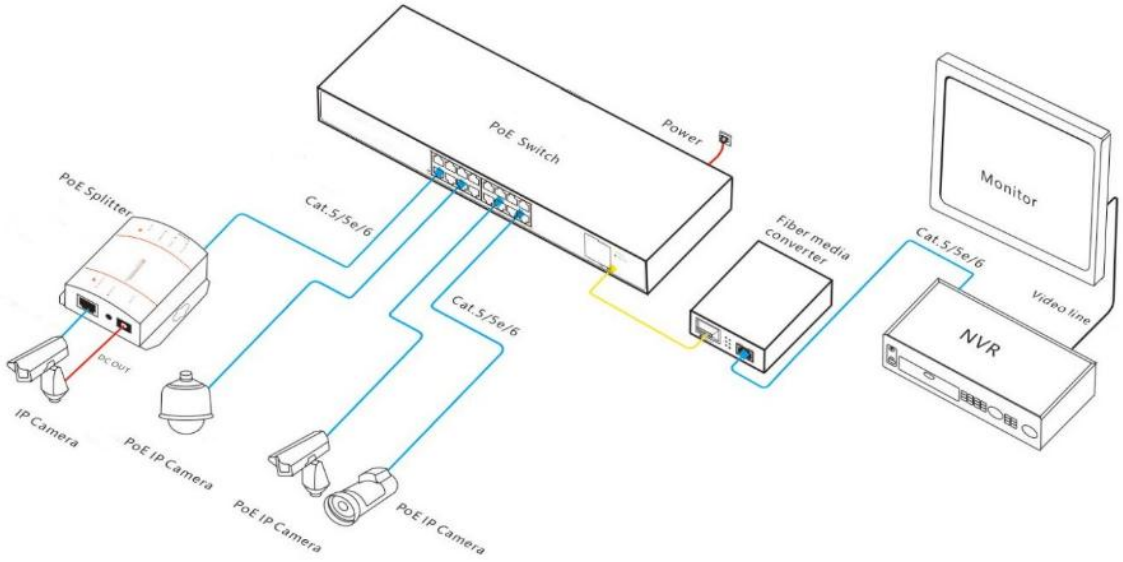
- CCC, CE, FCC, RoHS.
- Plug and play, no configuration, simple and convenient.
- Low power consumption, galvanized steel casing, no fan.
- The user-friendly panel, it can show the device status through the LED indicator of PWR, Link/Act, PoE.
- Self-developed power supply, high redundancy design, providing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

TECHNICAL SPECIFICATION

Model	**PLN-116GB-SFP**
Fixed Port	2*1000Base-X uplink SFP fiber ports (Data)
	2*10/100/1000Base-T uplink RJ45 ports (Data)
	16*10/100/1000Base-T PoE ports (Data /Power)
Ethernet Port	Port 1-16 can support 10/100/1000Base-T auto-sensing, full/ half duplex MDI/ MDI-X self-adaption
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP (≤100 meters)
	100BASE-TX: Cat5 or later UTP (≤100 meters)
	1000BASE-T: Cat5e or later UTP (≤100 meters)
Optical Fiber Port	Gigabit optical fiber interface, default no include optical module (optional single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)
Optical Cable/ Distance	Multi-mode: 850nm/ 0-550m, Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km
Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X, IEEE 802.3x
Forwarding Mode	Store and Forward (Full Wire Speed)
Switching Capacity	56Gbps (non-blocking)
Forwarding Rate @64byte	29.76Mpps
MAC	8K
Buffer Memory	4M
Jumbo Frame	9.6K
LED Indicator	Power: PWR (Green), Network: Link, Link/Act (Yellow), PoE: PoE (Green), Fiber port: L/A (Green)
Reset Switch	Yes, One-button factory reset
PoE Port	Port 1-16
Power Supply Pin	1/2(+) 3/6 (-)
Max Power Per Port	30W, IEEE 802.3 af/at
Total PWR / Input Voltage	250W/ (AC100-240V)
Power Consumption	Standby<15W, Full Load<240W
Power Supply	Built-in power supply, AC100-240V 50-60Hz, 4.1A
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*290*44.5mm
Net /Gross Weight	3.6kg /4.5kg
Installation	Desktop, wall mount, 1U/19” cabinet
Lightning Protection	Lightning protection: 4KV 8/20us, Protection level: IP30
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B, RoHS
Warranty	3 years, lifelong maintenance.

DIMENSION



A. Working indicator
B. 16*10/100/1000M PoE ports
C. 2*10/00/1000M RJ45 ports
D. 2*1000M uplink SFP fiber ports
E. Power input port AC100-240V, 50/60Hz

APPLICATION