

20 Port Gigabit Intelligent Standard PoE Switch

【Product Description】

20 Port Gigabit Intelligent Standard PoE Switch, using high-quality high-speed network IC and the most stable POE chip, POE port meets 802.3af / 802.3at standard, this series of PoE Switch can be 10/100/1000M Ethernet. The network provides a seamless connection, and the PoE power port can automatically detect and power the powered devices that comply with the IEEE802.3af / IEEE802.3at standards. The non-POE device intelligently detects no power and only transmits data.

PoE is Power over Ethernet, which refers to the transmission of data signals to some IP-based terminals (such as IP phones, wireless access AP, network cameras, etc.), but also provides DC power for the device. Technically, these devices that receive DC power are called powered devices.

With simple and convenient installation and maintenance methods and rich business features, it helps users to build a safe and reliable high-performance network. It is mainly located in the core or convergence layer of user networks such as industrial parks, buildings, factories and mines, government agencies, and residential broadband; it can be widely used in Ethernet access scenarios such as small and medium-sized enterprises, Internet cafes, hotels, and schools.

【Main Features】

- 16* 10/100/1000M PoE Ports+2*Gigabit Uplink+2* Gigabit SFP Ports;
- Comply with IEEE802.3, IEEE802.3u, IEEE802.3ab Standard;
- Ethernet Ports support 10/100/1000M self- adaptive;
- The AI mode is automatically enabled 10M speed for Ports 9~16 in Extend mode;
- POE priority is supported, from port 1 to port 16, which is enabled by default;
- Flow control mode: full-duplex adopts IEEE 802.3x standard, half-duplex adopts Back pressure standard;
- Zero configuration feature, automatically supplied to adaptive equipment;
- Panel indicator monitoring status and help failure analysis;
- With DIP switch, support VLAN, Default and Extend modes;
- Support port lightning surge: common mode 4KV, differential mode 2KV; Electrostatic ESD: air 8KV, contact 6KV.

[Application Environment]

- Metro Optical Broadband Network: Data network operators such as telecommunications, cable TV, and network system integration, etc.
- Broadband private network: Suitable for financial, government, oil, railway, electric power, public security, transportation, education and other industries.
- Multimedia transmission: Integrated transmission of images, voice and data, suitable for remote teaching, conference TV, videophone and other applications.
- Real-time monitoring: Simultaneous transmission of real-time control signals, images and data.

[Specifications]

| I/O Interface | |
|-------------------|--|
| Power | AC100-240V50/60Hz |
| Ethernet | 16*Gigabit PoE Ports 2*Uplink ports 2*Gigabit SFP Ports |
| Chipset | EN8850DH, RTL8238B |
| Performance | |
| Bandwidth | 40Gbps |
| Pack forward rate | 29.76Mpps |
| Package Cache | 3Mbit |
| MAC Address | 8K |
| Jumbo Frame | 9216bytes |
| Forwarding Mode | Store and forward |
| MTBF | 100000 Hours |
| Standard | |
| Network Protocol | IEEE802.3 (Ethernet) IEEE802.3u (Fast Ethernet) IEEE802.3ab (Gigabit Ethernet) IEEE802.3x (Flow Control) IEEE 802.3z (Gigabit Ethernet Fiber Standard) |
| PoE protocol | IEEE802.3af(15.4W) IEEE802.3at(30W) |
| Industry Standard | EMI: FCC Part 15 CISPR (EN55032) class A EMS: EN61000-4-2 (ESD)、 EN61000-4-5 (Surge) |
| Network medium | 10Base-T: Cat 3, 4, 5 Class or above UTP/STP (≤ 100m) 100Base-TX: Cat 5 Class or above UTP/STP (≤ 100m) |

| | |
|----------------------------|--|
| | 1000Base-TX: Cat 5 Class or above UTP/STP ($\leq 100\text{m}$) |
| Optical Medium | Multimode optical fiber: 50/125, 62.5/125, 100/140um Single-mode optical fiber: 8/125, 8.7/125, 9/125, 10/125um |
| Environment Standard | |
| Working Environment | Working temperature: $-10\sim 50^{\circ}\text{C}$ Storage temperature: $-40\sim 70^{\circ}\text{C}$ Working humidity: 10%~90%, non-condensing Storage humidity: 5%~95%, non-condensing |
| Indicator | |
| LED Indicator | PWR (Power) , 1-20 Green Light(Link&Data), 1-16 (Yellow Light) , POE Led Key |
| PWR | On: Powered on Off: Powered off |
| 1-20Green Light(Link&Data) | On: Link normal Off: Link blocked Flashing: Data transmitting |
| 1-16 (Yellow Light) | On: POE power supply is norma Off: POE not powered |
| PoE Max POE power light | Off: indicates PoE power usage is less than 90% Flashing: indicates PoE power usage of $90\% \leq P \leq 95\%$ On: indicates that PoE power is used at $95\% < P < 100\%$ |
| Mode DIP Switch light | On: Extend on Off: Extend off |
| PoE Led Key | Dual color light selection: default green (link data), switch yellow light (PoE) |
| Extend DIP Switch | OFF: common mode, all interfaces can communicate with each other, the transmission distance is less than 100 meters, the transmission rate is 10/100/1000M adaptive; The port AI mode is disabled ON: Link extension mode, 9-16 ports force 10M, link 250M (enable POE watchdog),Port AI mode is enabled; |
| Physical Specification | |
| Structure Size | Product Dimensions: 320*207*44mm Package Dimensions: 370*290*85mm Product N.W: 1.78KG Product G.W: 2.28KG |
| Packing Info | Carton Dimensions: 445*310*390mm Packing Quantity: 5 PCS Packing Weight: 12.4KG |
| Power Voltage | Input Voltage: AC 100-240 V 50-60Hz Supply Power: 52V /3.84A |

| | |
|---------------|--|
| Power | Non POE board power: maximum 10W POE power: maximum 180W |
| Package List | Switch 1 pc, Power cord 1 pc, User manual 1 pc, Certification 1 pc |
| Order Info | |
| HN16G2G2S-200 | 20 Port Gigabit Intelligent Standard PoE Switch |

【Product Rendering】



【Product Structure】

