



EW-S8P2U2SG switch adopts standard PSE chip, non-blocking design; lightning surge protection 6KV design; AI watchdog function and PoE power usage indicator. It will save more costs, reduce more risks and bring more value to the establishment and operation of the security transmission ecosystem, and help to build the AI intelligent security transmission ecosystem.

FEATURE

Gigabit Fast Ethernet Access

- Provides $8 \times 10/100/1000\text{Base-T RJ45}$ ports + $2 \times 1000\text{Mbps}$ uplink port and $2 \times 1000\text{Mbps}$ fiber optic interfaces for flexible network to meet the networked needs of various scenarios.
- All ports support non-blocking wire-speed forwarding for smoother transmission.
- Support IEEE 802.3x full-duplex flow control and Back pressure half-duplex flow control.

Intelligent Power over Ethernet Function

- 8 × 10/100/1000Base-TX RJ45 ports support Power over Ethernet to meet the demand of Power over Ethernet in various security scenarios.
- Comply with IEEE 802.3af/at Power over Ethernet standard, automatically identifies PoE devices and supply power, without damaging non-PoE devices. The output power of the whole machine is 150W, and the maximum output power of a single port is 30W.
- The 8 ports of Power over Ethernet support watchdog function, which automatically detects the data communication status in real time. When a port communication fault occurs, the corresponding port restarts automatically to recover the network communication and avoid manual maintenance.

Easy to operate

- Plug-and-play, no need to configure, easy to use and maintain.
- Users can easily know the device status through the PoE work indicators.

Innovative function

- Long distance mode (1): the switch is set to "ON" (default "OFF"), and the rate of ports 1–8 is reduced to 10M, so that the existing twisted-pair cable can be used to break the limitation of twisted-pair transmission of 100 meters, and the transmission distance can reach up to 250 meters. On the other hand, it can solve the problem of poor transmission caused by the aging of the line.
- VLAN mode (2): switch to "ON" (default "OFF") to open the physical VLAN isolation function of ports 1–8 to suppress broadcast storms and improve network performance.
- AI self-healing mode (3): switch to "ON" (default "OFF"), ports 1–8 open the watchdog function, which automatically detects the data communication status in real time, and when the port communication fails, the corresponding port POE will automatically restart and repair itself. Network communication, eliminating the trouble of manual maintenance.
- Fiber conversion mode (4): When the switch is set to "ON" (default "OFF"), the fiber optic interface is immediately will be converted to 2.5G, the fiber optic port is gigabit by default.

Stable and reliable equipment

- The device has low power consumption, fanless and silent design, galvanized steel metal shell, excellent heat dissipation, ensuring stable operation of the product.
- The equipment fully meets the requirements of 3C, CE and FCC safety regulations, and is safe and reliable to use.

TECHNICAL SPECIFICATION

The diagram illustrates a PoE network architecture. It features a central **8Port PoE Switch** (labeled "Smart PoE Switch") connected to an **AC** power source. The switch is connected to a **Router** and an **Internet** cloud. The switch also connects to a **PoE IP Camera** and a **Non-PoE IP Camera** via a **PoE Splitter**. A **PoE Extender** is used to connect the switch to two more **PoE IP Cameras** over a distance of **100m**. The switch is connected to a **2.5G Ethernet Switch** via **1.25G/2.5G Fiber**. The 2.5G Ethernet Switch is connected to an **NRV** (Network Video Recorder) and a **Monitor**. A legend indicates the connection types: **Power** (red line), **Data** (blue line), **Data+Power** (red and blue lines), and **Fiber** (green line). A note states: "No data returned from the camera is detected Automatic power-off and restart, back to normal".

Ordering Information

Part No	Description of product	Unit
EW-S8P2U2SG	8*10/100/1000Mbps PoE+Port, 2*10/100/1000Mbps Uplink port, 2*1000Mbps SFP Slot. 1. Standard PSE chip, Non-blocking design, Support 8MP 2. AI watchdog function. 3. Lightning surge protection: 6KV 4. DIP switch design, can freely choose 250m extended, VLAN, AI and 1.25G or 2.5G optical channel. 5. 3pcs LED indicators show power usage condition. 6. Power supply 150W	pc