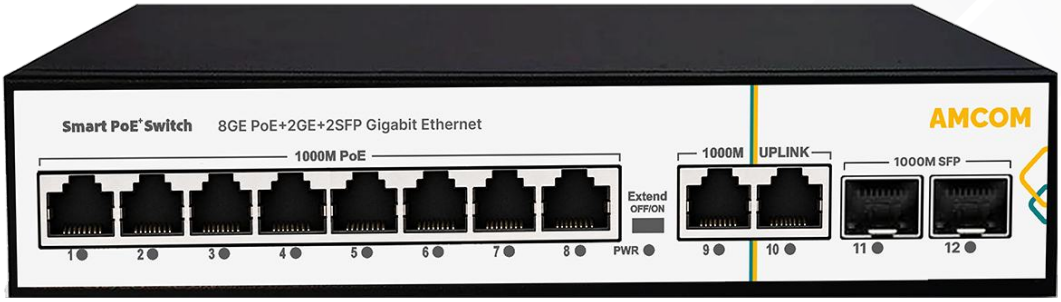


The 8-port 10/100/1000 Mbps unmanaged PoE switch delivers seamless Ethernet connectivity while supplying PoE power to devices such as IP surveillance cameras and wireless access points. It integrates data transmission and power delivery into one solution, ensuring efficient deployment and reliable performance.

This switch is equipped with 8 PoE+ ports, 2 uplink ports, and 2 x Gigabit SFP port, all supporting 100/1000Mbps speeds. The downlink ports can power PoE-enabled cameras via CAT 5 or higher UTP cables. Each RJ45 port complies with IEEE 802.3af/at standards, offering up to 30W per port, with a total PoE budget of 120W. A priority mechanism ensures high-priority ports maintain power when demand exceeds capacity, preventing overload.

The switch adopts the latest high-speed Ethernet switching chip combined with an ultra-high backplane bandwidth design. This architecture delivers extremely fast data processing capability, ensuring smooth and efficient transmission performance even under heavy network loads.

Additionally, the device can automatically detect and identify powered devices compliant with IEEE 802.3af/at standards. Through its built-in priority mechanism, critical ports are guaranteed power allocation when overall demand exceeds capacity, preventing overload and maintaining system stability. This makes the switch a robust and efficient solution for modern PoE networking requirements.

FEATURES

- 8 × 10/100/1000Mbps PoE ports, 2 x 10/100/1000Mbps uplink ports & 2 x 1000Mbps SFP slots
- Compliant with IEEE 802.3af/at standards
- Supports network storm control and VLAN functionality
- PoE transmission distance up to 250m
- Built-in power supply
- Maximum PoE output per port: 30W
- Total PoE power budget: 120W
- Smart function for automatic fault detection and recovery
- All ports support MDI/MDIX auto-flip and self-negotiation
- Store-and-forward switching architecture for reliable data handling
- Fanless, compact, and quiet operation
- Natural cooling system
- Port lightning protection up to 4kV
- Suitable for desktop or wall mounting

Specifications

Model	HW-02G12-FG

Network Connector

Network Port	
PoE Ethernet Port	1~8Port : 10/100/1000Mbps
Ethernet port	Uplink Port : 10/100/1000 Mbps
SFP Port	2 x SFP Ports : 1000Mbps
Smart Function	1~8 port

Transmission Distance	
1~8 Port : 100/1000Mbps: 0~100m; 10Mbps: 0~250m;	Uplink Port : 0 ~ 100m SFP : depends on the optical module (20km...100km)

Transmission Medium

Cat5/5e/6 standard network cable

Power Over Ethernet

PoE Standard	IEEE802.3af/at
PoE Power Supply	1/2 +, 3/6 -, 4 core power supply
PoE Power	af=15.4W, at=30W for each port

Network Switch

Network Standard

IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3x

Switching Capacity	24Gbps
Packet Buffer Memory	1Mbits
Throughput	17.856Mpps
MAC Table	4K

RJ45 port

Port Function

Power priority mechanism, fast forward switching, MAC learning & aging;
IEEE802.3X full duplex; backpressure in half duplex

Smart Function

When camera stops working for 2mins, the port will restart and recover automatically the camera.

LED Indicator

LED Indicator

LINK/ACT.100Mbps; PoE Status Indicator; Power Indicator; Extender

Power

Power Adaptor Voltage	AC 110V-240V
Consumption	120W(52V)

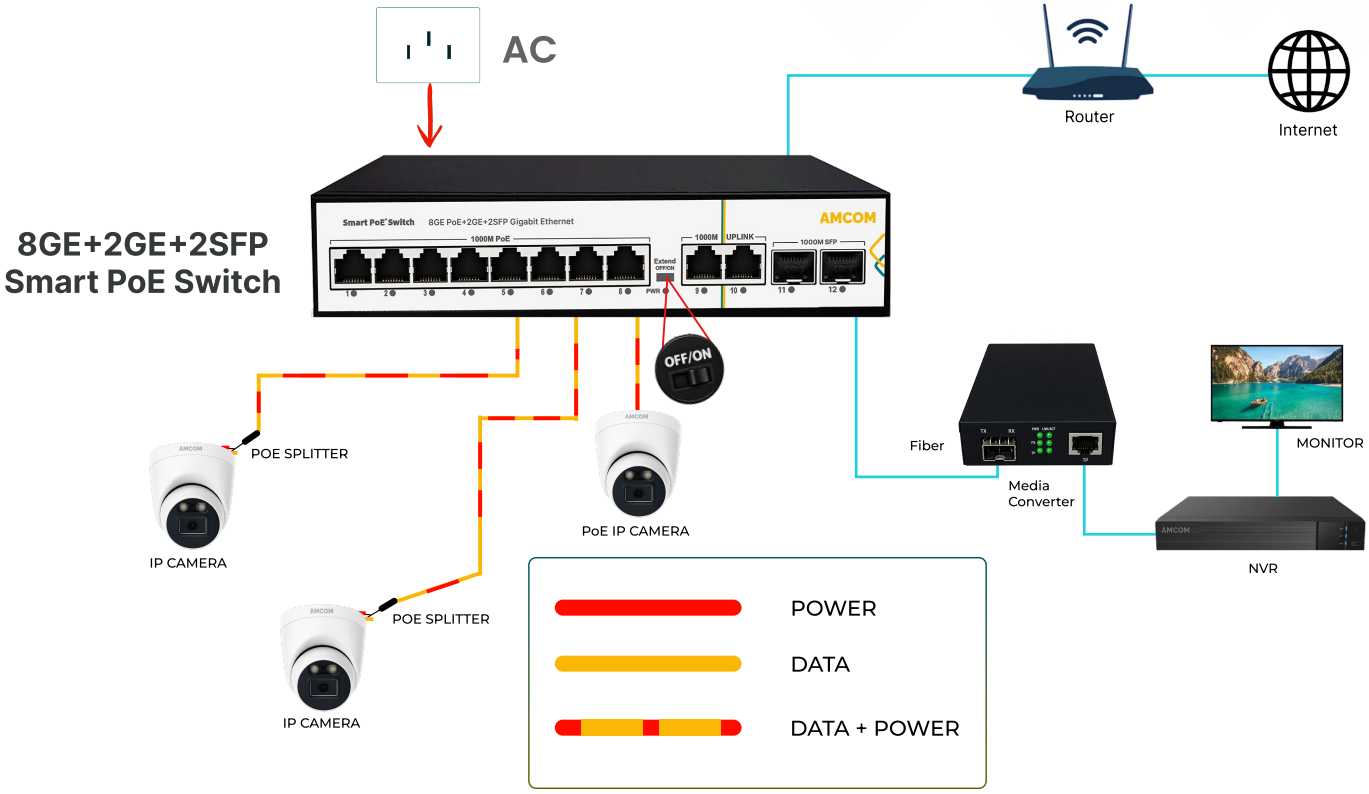
Environmental

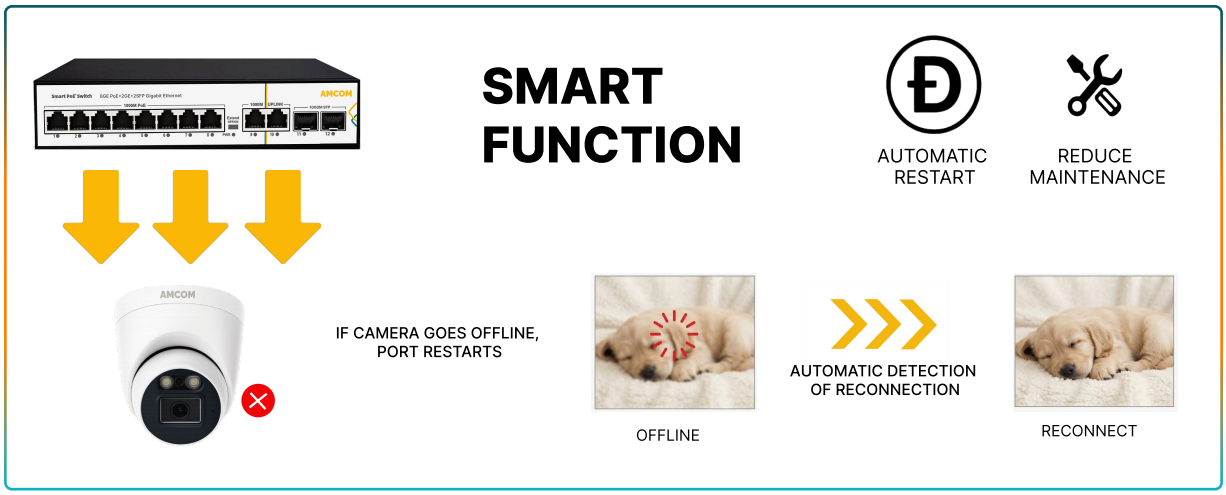
Lightning Protection	4kV
Working temperature	0°C~55°C
Relative Humidity	20~90%
Storage temperature	-20°C~70°C

Mechanical

Dimension (L×W×H)	202mm*140mm*44mm
Color	Black

Application





Model Number	Description of product
HW-02G12-FG	12-port Gigabit PoE switch is equipped with 8 × 10/100/1000Mbps PoE+ ports, 2 × 10/100/1000Mbps uplink ports, and 2 × 1000Mbps SFP slots. Fully compliant with IEEE 802.3af/at standards, it supports simultaneous data and power transmission up to 100 meters at 100Mbps and extends to 250 meters at 10Mbps. Enhanced with a smart function for automatic fault recovery and to provide stable, secure, and continuous operation in demanding environments.