

# POE SWITCH SYSTEM PRODUCTS

L2 managed POE switch 8x 10/100/1000M RJ45 and 2xG SFP ports Built-in 150W



## OVERVIEW

SW-M-8G-2SFP is a Layer 2 plus managed switch equipped with 8 Gigabit RJ45 ports, 2G SFP ports and a Console port. 8 RJ45 ports support 802.3af/at (PoE+) standard and provide 150 W total PoE power. The all-metal steel case and internal power adapter are designed for rack mounting. It supports unified management of the entire network configuration and network management, which can simplify user operation and improve the reliability of deployment.



## FEATURE

- Provides 8 10/100/1000Mbps RJ45 ports, 2 10/100/1000Mbps SFP fiber ports and 1 console port.
- Supports IEEE802.3i, IEEE802.3u, IEEE802.3ab, IEEE802.3z, IEEE802.3x , IEEE802.3az, IEEE802.3af, IEEE802.3at.
- Supports MAC address auto-learning and auto-aging.
- 19 inches full metal iron shell and internal power adapter design, suitable for rack installation.
- Supports QoS, port mirroring, link aggregation protocol.
- Support DHCP Snooping, DHCP Relay, Option 82, DHCP client.
- CE, ROHS, FCC, UKCA , 802.1Q VLAN

### Diverse reliability protection

- Support STP (IEEE 802.1d), RSTP (IEEE 802.1w) and MSTP (IEEE 802.1s) protocols to eliminate Layer 2 loops and implement link backup.
- Supports loop protection, root bridge protection, TC protection, BPDU protection, and BPDU filtering.
- Support 50ms switching of optical ports.

### Perfect POE power supply function

- Support 802.3af/at standard, built-in high-power power supply, meet the needs of POE scenarios such as security monitoring, wireless coverage, and IP telephony.
- Support PoE power limit and set PoE port priority. When the power exceeds the limit, the power supply of the high-priority port will be given priority.
- Support setting PoE power supply time period, users can control the time period of PoE power supply according to their own needs.
- Support PoE chip status check, users can view the PoE chip temperature, output power and other parameters in real time through the web page.

### Flexible and convenient management and maintenance

- Support Telnet, SSH and other management methods.
- Support WEB network management (HTTP, HTTPS, SSL V3), which is simpler and more efficient, and is convenient for users to install and debug.
- Supports file upload and download management in TFTP mode.
- Support SNMP V1/V2/V3 to facilitate device management through the network management platform.
- Support one-stop management and maintenance of Apollo cloud platform, which can realize all-round remote operation and maintenance such as automatic device discovery, network topology management, and remote configuration management of devices.

## APPLICATIONS

### Value-Added Features Bring Unexpected Experiences

#### QoS for a Lag-Free Experience

- Ensures smooth traffic for latency-sensitive applications, such as voice and video

#### IGMP Snooping for Multicast Optimization

- Ensures a better network experience, especially for applications like IPTV, by optimizing multimedia traffic delivery.

#### VLAN for Security

- Helps to create a network with higher security and better overall performance by dividing the network into smaller groups

## SPECIFICATIONS

Power Supply	AC100~240V 50/60Hz
Standards	IEEE 802.3i,802.3u,802.3ab,802.3x,802.3at,802.3af,802.3z
Ports	8 x 10/100/1000Mbps ports, 2 x 1000Mbps SFP ports, 1x Console port
Indicators	Electrical port indicators, SFP fiber port indicators, power input indicator, system running indicator.
Network medium	10Base-T: UTP category 3, 4, 5 cable (maximum 100m) 100Base-Tx: UTP category 5, 5e cable (maximum 100m) 1000Base-T: UTP category 5e, 6 cable (maximum 100m) 1000Base-X:MMF,SMF
Dimensions	271*181.5*44.5 mm
PoE port	8 802.3at/af standard POE
PoE Pin Definition	1/2(+),3/6(-)
PoE power	130 W
Total power	150 W
Transfer Method	Store-and-Forward
MAC Address Table	8K
Switching Capacity	20Gbps
Packet Forwarding Rate	14.88Mpps
Packet Buffer	4.1Mbit
Jumbo Frame	10KBytes
Environment	Operating Temperature: 0°C ~45°C (0°F~113°F) Storage Temperature: -40°C ~70°C (-40°F ~158°F) Operating Humidity: 10%~90% non-condensing Storage Humidity: 5%~95% non-condensing
Warranty	2 Year

## SOFTWARE SPECIFICATIONS

Protocol standard	IEEE 802.3:Ethernet media access control (MAC) protocol IEEE 802.3i:10BASE-T Ethernet IEEE 802.3u:100BASE-TX Fast Ethernet IEEE 802.3ab:1000BASE-T gigabit Ethernet IEEE 802.3z:1000BASE-X gigabit Ethernet (optical) IEEE 802.3ad:perform link aggregation standard way IEEE 802.3x:flow control IEEE 802.1p:LAN Layer 2 QoS/Cos protocol for traffic prioritization (multicast filtering function) IEEE 802.1q:VLAN bridge operation IEEE 802.1d:STP spanning tree IEEE 802.1s:MSTPspanning tree IEEE 802.1w:RSTPspanning tree IEEE 802.3af IEEE 802.3at
One-click shortcut function	AI VLAN , AI Extend , AIPoE , AI QoS
DHCP	support DHCP Snooping

<b>VLAN</b>	support 4K VLAN, support 802.1Q VLAN、MAC VLAN ,IP VLAN Voice VLAN
<b>MAC address table</b>	Follow IEEE 802.1d standard Support MAC address automatic learning and aging Support static, dynamic, filtering address table
<b>Safety features</b>	password protection Support to restrict user access based on port number, IP address, MAC address Support HTTPS、SSL V3、TLS V1、SSH V1/V2 Support IP-MAC-PORT ternary binding Support ARP protection、IP source protection、DoS protection Support DHCP Snooping、DHCP attack protection Support 802.1X、AAA Support port security and port isolation
<b>PoE management</b>	Support PoE total power limit Support PoE chip status check Support setting PoE port priority Support setting PoE power supply time period
<b>Access control(ACL)</b>	Support L2 (Layer 2) ~ L4 (Layer 4) packet filtering function Support port mirroring, port redirection, flow rate limit, QoS remarking
<b>Service quality(QoS)</b>	Supports 8 port queues Support port priority, 802.1P priority, DSCP priority Support SP, WRR, WFQ priority scheduling algorithm
<b>Spanning tree</b>	Support STP (IEEE 802.1d), RSTP (IEEE 802.1w) and MSTP (IEEE 802.1s) protocols Support loop protection, root bridge protection, TC protection, BPDU protection, BPDU filtering
<b>Multicast</b>	Support IGMP v1/v2 Snooping , Support multicast VLAN Support multicast filtering, packet statistics, unknown multicast discard
<b>Storm suppression</b>	Support multicast suppression Support broadcast suppression Support unknown unicast suppression
<b>Link aggregation</b>	Support static aggregation Support dynamic aggregation Support based on IP, MAC, mixed load balancing mode A maximum of 32 aggregation groups are supported
<b>IPv6</b>	Support IPv6 Ping, IPv6 Tracert, IPv6 Telnet , Support IPv6 SSH, IPv6 SSL
<b>Management and maintenance</b>	Support WEB network management (HTTP, HTTPS, SSL V3) Support CLI (Telnet、SSH V1/V2) Support SNMP V1/V2/V3, Support LLDP、RMON Support ARP protection, IP source protection, DoS protection Support CPU monitoring, memory monitoring Support system log, graded warning Support Ping, Tracert detection, cable detection

## ORDER INFORMATION

PRODUCT	PART NUMBER
L2 managed POE switch 8x 10/100/1000M RJ45 and 2xG SFP ports Built-in 150W	SW-M-8G-2SFP