

High-power

# Full Gigabit managed PoE Switch

➤ User's manual

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S5800WP-8G-2S-BT

## Product introduction

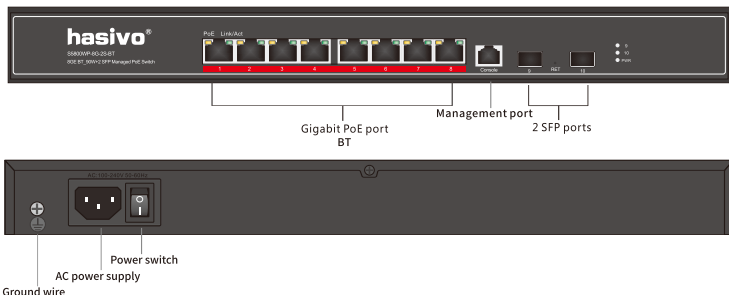
S5800WP-8G-2S-BT i's a high-power managed full Gigabit Poe switch independently developed by hasivo. Ports 1 to 8 support high-power bt90w power supply output,It complies with IEEE 802.3af/at/poe + + / BT standard, and the maximum Poe output power of the whole machine is 800W. As the most compatible Poe power supply equipment in the industry so far, it provides flexible power supplyThe live, cost-effective full Gigabit port can automatically detect and identify the power receiving equipment that meets the standard and supply power to it through the network cable. Plug and play, easy to use, easy to manage,Suitable for outdoor high-power AP, Skynet camera, etc., to establish a cost-effective Poe network.

## Product function

- ◆ Compatible with high-power 90W terminal power supply;
- ◆ 56G super large backplane bandwidth;
- ◆ Hasivo intelligent PSE chip;
- ◆ The maximum Poe power supply of the whole machine is 800W, and the maximum Poe power supply of single port is 90W;
- ◆ Comply with IEEE 802.3af/at Poe standard, and the port supports power supply priority;
- ◆ Support 802.1Q VLAN, port VLAN, QoS and storm suppression;
- ◆ Support port aggregation, port mirroring, port monitoring and loop protection;
- ◆ The host is designed with low power consumption, and the fan strengthens heat dissipation to ensure the stable operation of the product;
- ◆ The high-power built-in PFC high-efficiency power supply independently developed by hasivo is adopted to provide long-term and stable Poe power output.

## Product display and description

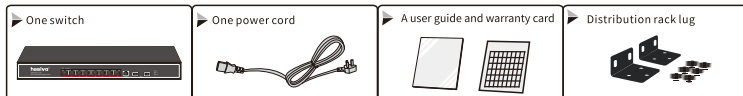
S5800WP-8G-2S-BT , 8\*10/100/1000M PoE Port+2\*SFP Port



## Indicator definition

indicator light		state	Description
PWR:Power indicator		Chang Liang	normal
		Constant extinction	Not powered on
Downlink port indicator	orange (PoE)	Chang Liang	The power receiving equipment is connected with it and supplies power normally
		Constant extinction	No power receiving equipment is connected with it or there is no power supply
	green (Link)	Chang Liang	Corresponding port network signal connection
		Constant extinction	The network signal of the corresponding port is not connected
9、10:Light port indicator		Chang Liang	The optical port connection is normal
		Constant extinction	Optical port not connected or abnormal

## Product supporting list



## Product introduction, installation and precautions

For the safe installation and operation of the switch, it is recommended that you:

- Check that the power cord is securely wrapped around the AC power connector.
- Ensure proper heat dissipation and ventilation conditions around the switch.
- Do not stack heavy objects on the switch.

### Mounting to rack

1. Check the grounding and stability of the rack
2. Install the two L-shaped brackets in the accessories on both sides of the switch panel and fix them with the screws provided in the accessories, as shown in Figure 1.1.1.
3. Place the switch in a proper position in the rack and supported by the bracket.4. Fix the L-shaped bracket on the guide grooves fixed at both ends of the rack with screws to ensure that the switch is stably and horizontally installed on the rack, as shown in Figure 1.1.2.

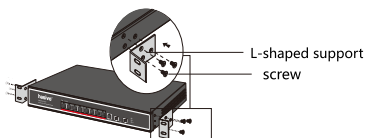


Figure 1.1.1 installation diagram of switch

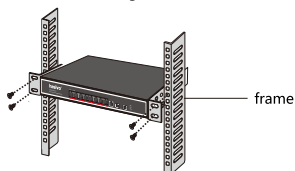


Figure 1.1.2 installation diagram of switch

### Power socket specification

The switch power line adopts single-phase three wire power socket, and the middle pin is grounding wire, The left foot is the zero line and the right foot is the live line. Please check before operation.

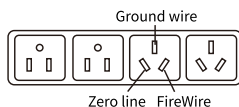


Figure 1.2.1 single phase three wire power socket

### Connect the power cord

1. Check that the selected power supply is consistent with the power supply requirements marked on the switch;2. Built in without power adapter, directly connected to AC100 ~ 240V,50 ~ 60Hz mains power is enough; As shown in Figure 1.2.2.

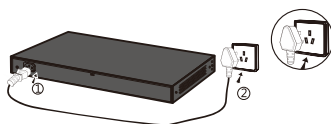


Figure 1.2.2 power connection diagram

### Connecting SFP ports

The process of installing the optical fiber module in the switch is as follows:

Grasp the optical fiber module from the side and insert it smoothly along the SFP port slot of the switch until the optical fiber module is in close contact with the switch, as shown in Figure 1.3.1.

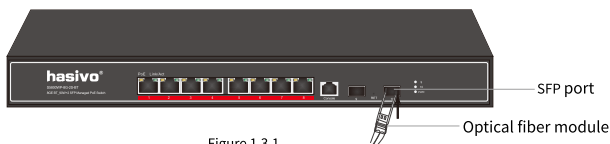


Figure 1.3.1

### Post installation inspection

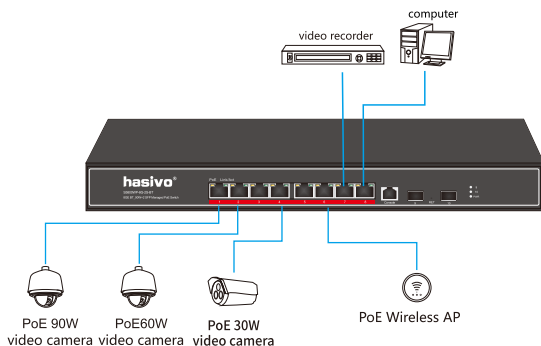
After installation, check the following:

1. Check whether there is enough heat dissipation space around the switch and whether the air circulation is smooth;
2. Check whether the power supply of the power socket meets the specification of the switch;
3. Check that the power supply, switch, rack and other equipment have been properly grounded;

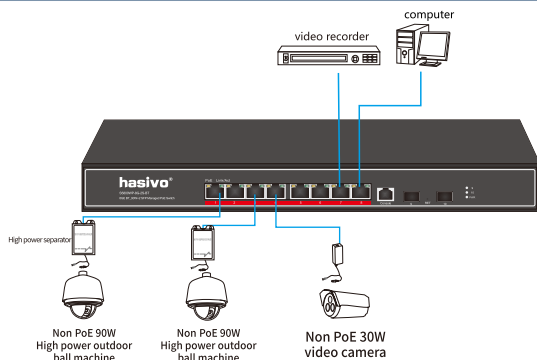
## Product application

### Equipment connection diagram

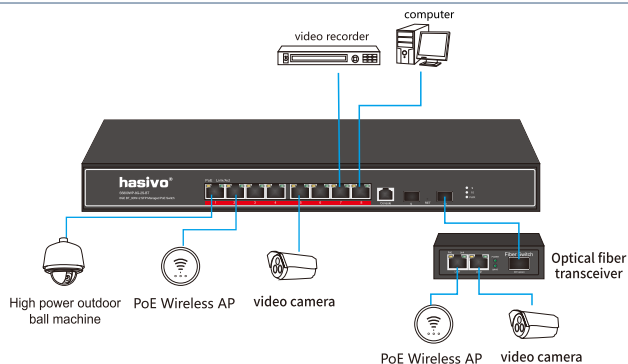
Programme 1



Programme 2



Programme 3



## Hardware parameters

Model	S5800WP-8G-2S-BT
Product name	Full Gigabit 25FP+8GE BT L2+ Managed PoE Switch
Fixed Port	8*10/100/1000Base-TX PoE port ( Data/Power ) 2*1000M SFP
PoE Ports	1-8 port supports IEEE802.3af/at/poe++/bt, max 90W PoE out
Console port	1*console port
Reset Key	1
PoE Pin	Af/at/bt: 12+ 45+ ; 36- 78-
PoE Bridge	max 800W
Bandwidth	20Gbps
Packet Forwarding	14.88Mpps
MAC	8K
Buffer	4.1M
FLASH	128MBytes
RAM	128MBytes
CPU	500MHz
DDR	1G DDR3
Jumbo Frame	10000Bytes
VLAN Address	4K
Transmission Distance	10BASE-T : Cat3,4,5 UTP(≤250 meter) 100BASE-TX : Cat5 or later UTP(150 meter) 1000BASE-TX : Cat6 or later UTP(150 meter) SFP: 1000M single and multimode optical module with maximum distance ≤ 120km (depending on the optical module)
LED Indicator	PW:Power LED SYS:System LED 1-8:PoE_Work indicator;Link_Network connection indicator 9-10:SFP connection indicator Port:Orange=PoE LED, Green=LAN Link LED
Power	Built-in power AC : 100-240Vac 50-60Hz 9.8A max 810W
Operating Temperature /Humidity	-10 ~ +55°C ; 5% ~ 90% RH Non coagulation
Storage Temperature /Humidity	-40 ~ +75°C ; 5% ~ 95% RH Non coagulation
Product /Packing size ( L*W*H )	440mm*240mm*45mm 515mm*375mm*95mm
N.W/G.W ( kg )	3.3kg/4.0kg
Installation	Rack-mount (optional machine hanger spare parts)
Lightning Protection level	6KV 8/20us ; IP30
Certificate	3C ; CE-EMC EN55032 ; CE-LVD EN62368 ; FCC Part 15 Class B ; RoHS ;
Warranty	Whole device for 1 year(Accessories not included)

## Software parameters

Protocol standard	IEEE 802.3x; IEEE 802.3. IEEE 802.3u、IEEE 802.3ab. IEEE 802.3z; IEEE 802.3ad; IEEE 802.3q、IEEE 802.3q/p; IEEE 802.1w、IEEE 802.1d、IEEE 802.1s
VLAN configuration	Support port based VLAN; Up to 4096 VLANs are supported; Support voice voicevlan and configure QoS for voice data; Support 802.1Q standard VLAN
Spanning tree	Support STP spanning tree protocol; Support RSTP fast spanning tree protocol; Support MSTP fast spanning tree protocolSupport EPPs ring network protocol; Support EAPs ring network protocol; Support 802.1x Protocol
Negotiation mode	The port supports automatic negotiation function (self negotiation transmission rate and duplex mode)
Port Mirror	Support loop protection function, real-time detection, rapid alarm, accurate positioning, intelligent blocking and automatic recovery
Loop Guard	Support bidirectional port mirroring
Port isolation	It supports mutual isolation of downlink ports and communication with uplink ports
Port flow control	Half duplex based on back pressure control: full duplex based on pause frame
line rate	Support port based input / output bandwidth management
Network management	Support web interface management; Based on telnet CLI management of tftip and console; Support SNMP V1 / V2 / V3 managementSupport rmonvi / V2 management; RMON management
Port aggregation	Support 8 groups of aggregation, and each group supports up to 8 ports; Static convergence and dynamic convergence
IGMP Snooping	Igmpv1 / 2 / 3 and mldv1 / 2 snooping; Support GMRP protocol registration Multicast address management, multicast VLAN, multicast routing port, static multicast address
Storm suppression	Support storm suppression of unknown unicast, multicast, unknown multicast and broadcast types; Storm suppression based on bandwidth adjustment and storm filtering
Safety characteristics	Support user IP address + MAC address; ACL based on IP and MAC; Support the security nature of the number of port based MAC addresses
QOS	802.1p port queue priority algorithm; Cos / TOS, QoS flag; WRR (weighted round robin), weighted priority rotation algorithm Support three priority scheduling modes: WRR, SP and WFQ; Support classification based on port, MAC, 802.1Q and DSCP
System maintenance	Support upgrade package upload; Support system log viewing; Support web to restore factory settings
PoE management	48V / 24V Poe output can be configured; Open or close the port; Standard Poe dispatching management; Power and current display PoE watchdog function; Timed reactivation; Support IP binding restart
Network cable sequence	Support auto mdix, automatic identification of direct network cable and cross network cable
MAC address table	Support 8K MAC address table, automatic update and two-way learning
DHCP	DHCP Snooping

## **Matters needing attention**

To avoid equipment damage and personal injury caused by improper use, please follow the following precautions:

- During installation, keep the power off, wear anti-static wrist, and ensure that the anti-static wrist is in good contact with the skin to avoid potential damage. Potential safety hazards in;
- The switch can work normally only under the correct power supply. Please confirm that the power supply voltage is consistent with the voltage marked by the switch;
- Before the switch is powered on, please make sure that the power circuit will not be overloaded, so as not to affect the normal operation of the switch or even cause unnecessary damage;
- In order to avoid the risk of electric shock, do not open the shell when the switch is working, and do not open it by yourself even when it is not charged;
- Before cleaning the switch, pull out the power plug of the switch. Do not wipe it with wet fabric or clean it with liquid;
- The equipment installed in the rack is generally from bottom to top to avoid overload installation;
- Avoid placing other heavy objects on the surface of the switch to avoid accidents.

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