

High-power

# Managed PoE Switch

## ➤ User's manual

---

S1300WP-8G-2S-BT



## Product introduction

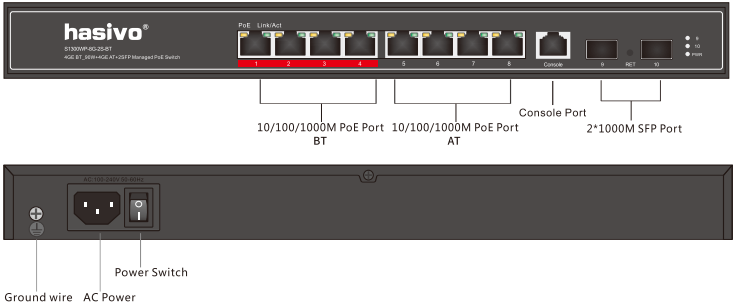
S1300WP-8G-2S-BT is a high-power managed full Gigabit Poe switch independently developed by hasivo. Ports 1 to 4 support high-power bt90w power supply output,It conforms to IEEE 802.3af/at/poe++/bt standard, and the maximum Poe output power of the whole machine is 500W. As the most compatible Poe power supply equipment in the industry by far, it provides flexibleThe active, 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,It is suitable for outdoor high-power AP, Skynet camera, etc. to establish a cost-effective Poe network.

## Product functions

- ◆ Compatible with high-power 90W terminal power supply;56G backplane bandwidth;
- ◆ 56G backplane bandwidth;
- ◆ hasivo intelligent PSE chip;
- ◆ The maximum PoE power supply of the whole machine is 500W, and the maximum PoE power supply of a 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 convergence, port mirroring, port monitoring and loop protection;
- ◆ The host is designed with low power consumption, and the fan enhances heat dissipation to ensure the stable operation of the product;
- ◆ High power built-in PFC high-efficiency power supply independently developed by hasivo is used to provide long-term stable PoE power output

## Product display and description

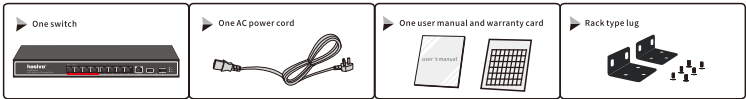
S1300WP-8G-2S-BT , 8\*10/100/1000M PoE Port+2\*1000M SFP Port



## Indicator definition

Front indicator		state	Description
PWR:Power indicator		on	Power on
		off	Power off
Port indicator	PoE:Orange	on	PoE on
		off	PoE off
	Link:Green	on	Link on
		off	Link off
9、10:SFP indicator		on	SFP on
		off	SFP off

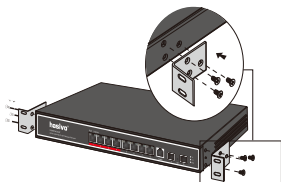
## Product supporting list



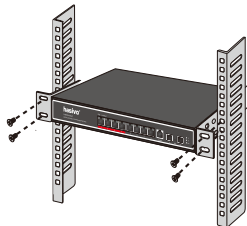
## Installing the switch

### Mounting to rack

1. Check the grounding and stability of the frame
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 the appropriate position in the rack and supported by the bracket.
4. Fix the type bracket on the guide groove 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



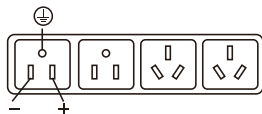
1.1.1



1.1.2

### Power supply socket specification

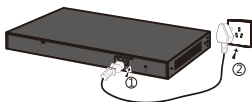
Switch power line single-phase three wire power socket, the middle foot to ground. The left foot on the right foot for the zero line and FireWire, please check before the operation.



1.2.1

### Connect the power cord

1. check the selection of power supply and the switch marking requirements;
2. built-in power adapter, direct access to AC100~240V, 50~60Hz city electricity can be; as 1.2.2.

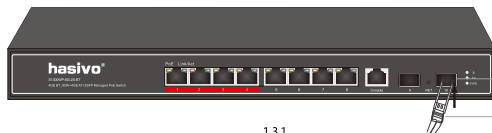


1.2.2

### 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.



1.3.1

SFP Port

Fiber optic module

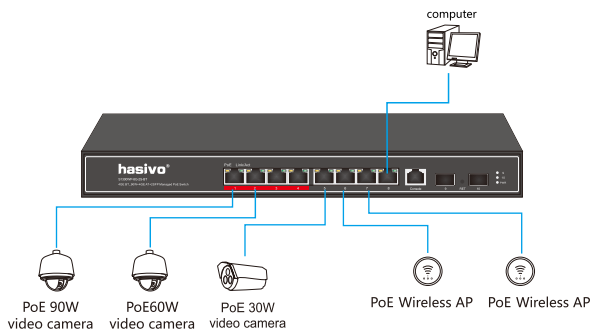
### Inspection after installation

Please check the following items after installation:

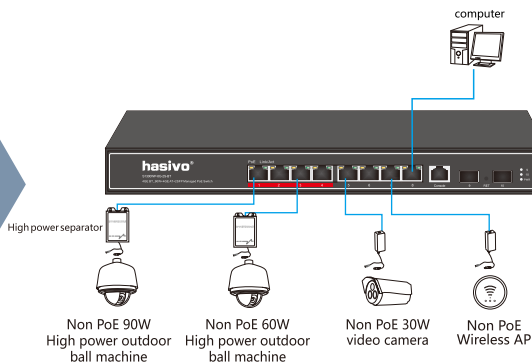
1. Check whether there is enough space for heat exchange, air circulation is smooth;
2. Check the power supply socket power supply switch is in accordance with the specifications;
3. Check the power supply, switchboard, rack and other equipment have been properly grounded;

## Product application

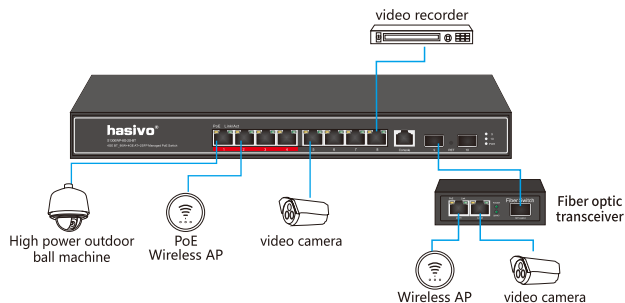
Scheme 1



Scheme 2



Scheme 3



## Technical parameter

Model	S1300WP-8G-2S-BT
Product name	Full Gigabit 2SFP+8GE BT L2+ Managed PoE Switch
Fixed Port	8*10/100/1000Base-TX PoE port ( Data/Power ) 2*1000M SFP
PoE Ports	1-4 port supports IEEE802.3af/at/poe+ +/bt, max 90W PoE out 5-8 port supports IEEE802.3af/at, max 30W/port, PoE out
Console port	1*console port
Reset Key	1
PoE Pin	Af/at/bt: 12+ 45+ ; 36- 78- Af/at: 12+ 36-
PoE Bridge	max 400W
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 5A max 410W
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 )	333mm*217mm*45mm 410mm*278mm*95mm
N.W/G.W ( kg )	2.3kg/3.0kg
Installation	Desktop (optional wall +machine hangers)
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

model	S1300WP-8G-2S-BT
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 protocol; Support EAPs ring protocol; Support 802.1x demonstration protocol
Negotiation mode	The port supports automatic negotiation function (self negotiation transmission rate and duplex mode)
Port Mirror	Support bi-directional port mirroring
Loop Guard	Support loop protection function, real-time detection, rapid alarm, accurate positioning, intelligent blocking and automatic recovery
Port isolation	Support 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 I / O bandwidth management
Network management	Support web interface management; Based on telnet CLI management of tftip and console; Support SNMP V1/V2/V3 management; Support rmonvi/V2 management; RMON management
Port convergence	Support 8 groups of convergence, and each group supports up to 8 ports; Static convergence and dynamic convergence
IGMP Snooping	IGMP V1/2/3 and mldV1/2 snooping; Support GMRP protocol registrationMulticast 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 features	Support user port +ip address +mac address; ACL based on IP and MAC; Security properties that support 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 uploading; 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 displayPoe 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	Support 8K MAC address table, automatic update and two-way learning
DHCP	DHCP Snooping

The above are the main software functions, not all of them. If there are no functions, please consult us first! Support software development with customization requirements!

PS: We will try our best to check the errors in the printing and pictures, but hasivo will not be responsible for any possible omissions. The appearance, specifications, parameters, prices and supply conditions of the products listed on this page are subject to change without notice.