

➤ **Manual for S2600P-16F-1G-1TC-Ai**

Hybrid Gigabit Uplink Ai PoE Switch

01 Product introduction

Product overview

S2600P-16F-1G-1TC-AI is gigabit RJ45 and SFP uplink unmanaged PoE switch independently developed by hasivo, which can automatically detect the compliance with IEEE802.3af/at | PoE +| HiPoE standard power receiving equipment and power supply, new integrated hipoe and poedog function, solve the power supply problem of high-power outdoor ball machine, high-power wireless AP and other high-power equipment, pogdog function will realize the automatic repair of PD end equipment when it accidentally crashes, solve the time-consuming and labor-consuming problem of human operation, and realize intelligent unattended.

Port performance

- ◆ Provide 16*10/100M PoE RJ45 adaptive ports, all of which can realize line speed forwarding.
- ◆ Provide 1 gigabit RJ45 and 1 COMBO uplink ports for high-speed uplink transmission.
- ◆ Each port supports MDI / mdix auto flip and duplex / rate self negotiation.
- ◆ Support IEEE 802.3x full duplex flow control and backpressure half duplex flow control.

Special function

- ◆ HiPoE: the 1~2 port outputs 60W to solve the power supply problem of high-power PD. It can connect large ball machine, wireless AP or intelligent door lock and other high-power PoE devices.
- ◆ PoEdog: when PoE is started, it detects the status of PoE electrical equipment in real time; when the equipment side is abnormal, the switch actively sets the port and restores PoE power supply to realize unattended. When the function switch dial back and forth between N-S (< 1.5s), the poe watchdog function can be turned on / off.

PoE power supply function

- ◆ According to IEEE 802.3af/at PoE power supply standard, the maximum PoE output power of the whole machine is 150W/300W, single port for the maximum PoE output power is 30W. (1~2 port supports HiPoE_60W)。
- ◆ Automatic identification of PoE equipment for power supply without damaging non PoE equipment.
- ◆ PoE port supports priority mechanism. When the residual power is insufficient, priority is given to the power supply of high priority port to avoid equipment overload.

Three working modes

- ◆ N——standard switching mode: all ports communicate freely, suitable for common data transmission environment.
- ◆ V——port isolation mode: the downlink ports are isolated from each other, which is suitable for the use scenarios of connecting wireless AP, suppressing network storm and improving network performance.
- ◆ S——flow control mode: port flow balance control, prevent big data flow packet loss, ensure the efficient and stable operation of user network.

02 Spare parts list



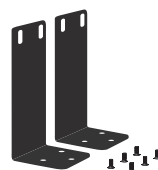
Switch



AC power cable

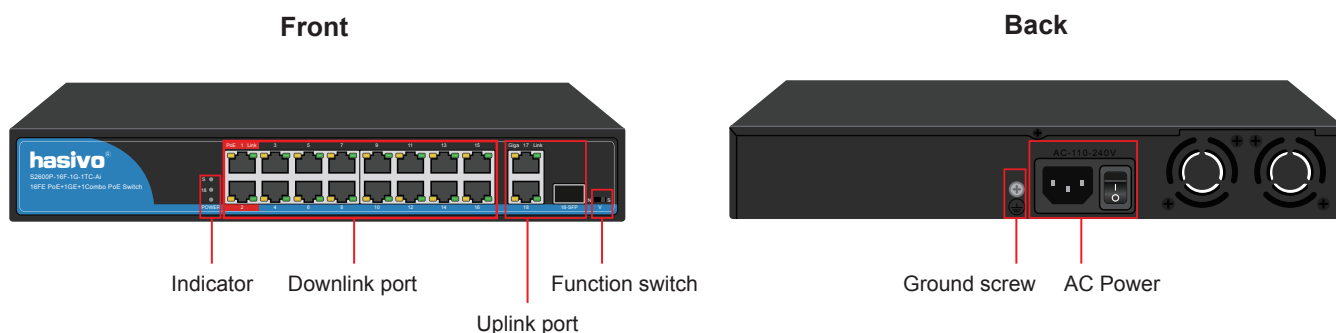


User manual+Warranty Card



Rack hanger

03 Product display



Indicator definition:

Indicator		Status	Description
Power indicator: POWER		Green light is always on	Power on normal
		Always off	No power
SFP indicator:18		Light is on	The corresponding port has data transmission
Network indicator 【1~16 downlink】	Green	Light is on	The corresponding port has data transmission
	Orange	Light is on	The corresponding port PoE output normal
Network indicator 【17~18 uplink】	Green	Light is on	The corresponding port works at 10/100M speed
	Orange	Light is on	The corresponding port works at 1000M speed
Super distance mode:S		Light is on	250m ultra long transmission

Function:

Function identifier	Work mode	Description
N	Standard switching mode	All ports communicate freely, suitable for common data transmission environment
V	Port isolation mode	The downlink ports are isolated from each other, which is suitable for the use scenarios of connecting wireless AP, suppressing network storm and improving network performance
S	Super distance mode	The speed limit of downlink port is 10m to realize 250m ultra long transmission

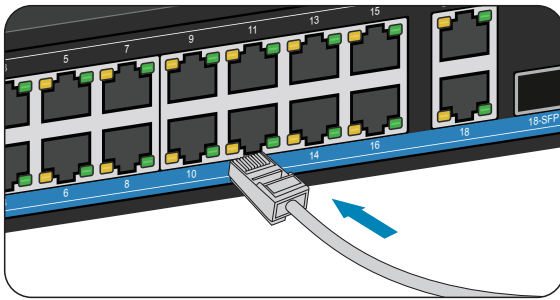
04 Installation&Points of attention

Checking before installation

- 1.Check whether the accessories are complete. If there is any omission, please contact us.
- 2.Check whether the power supply voltage is consistent with the working voltage of the switch,so as to avoid the equipment burning out due to high voltage.
- 3.Ensure that the installation position of the switch has certain ventilation and heat dissipation conditions.
- 4.Please keep the power off during installation to avoid potential safety hazards.
- 5.Please install the switch on a stable plane to avoid falling and damage.

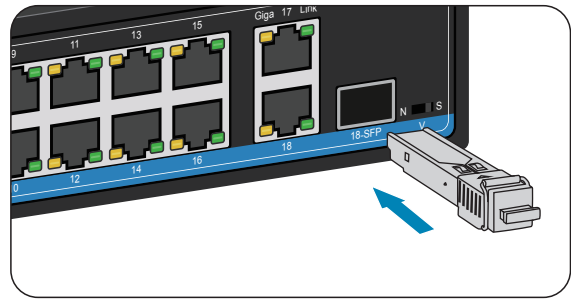
Port installation and connection

Insert the data cable



As shown in the figure, insert the crystal head of the data cable into the network port. When you hear a clear click, it indicates that the crystal head is successfully connected with the network port of the switch. Just plug in all the network cables of the network equipment in this way.

Install the SFP module



As shown in the figure, align the optical fiber module with the optical port of the SFP and insert it smoothly. When you hear a clear click, it indicates that the optical fiber module is installed successfully. Just install the two optical fiber modules in this way.

Install to desktop

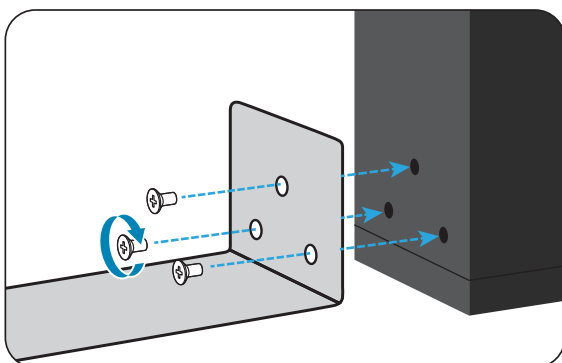
Place the switch on the desktop



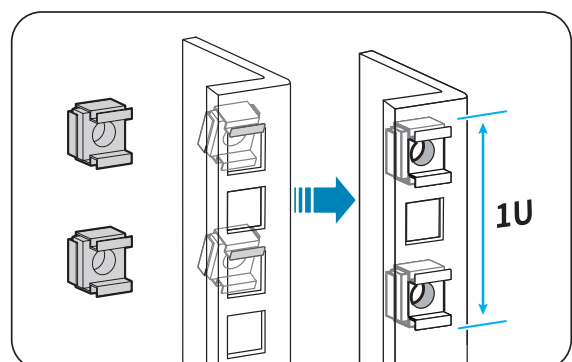
The switch should be placed on a well ventilated horizontal desktop, which is conducive to better heat dissipation of the equipment

Install to cabinet/Rack

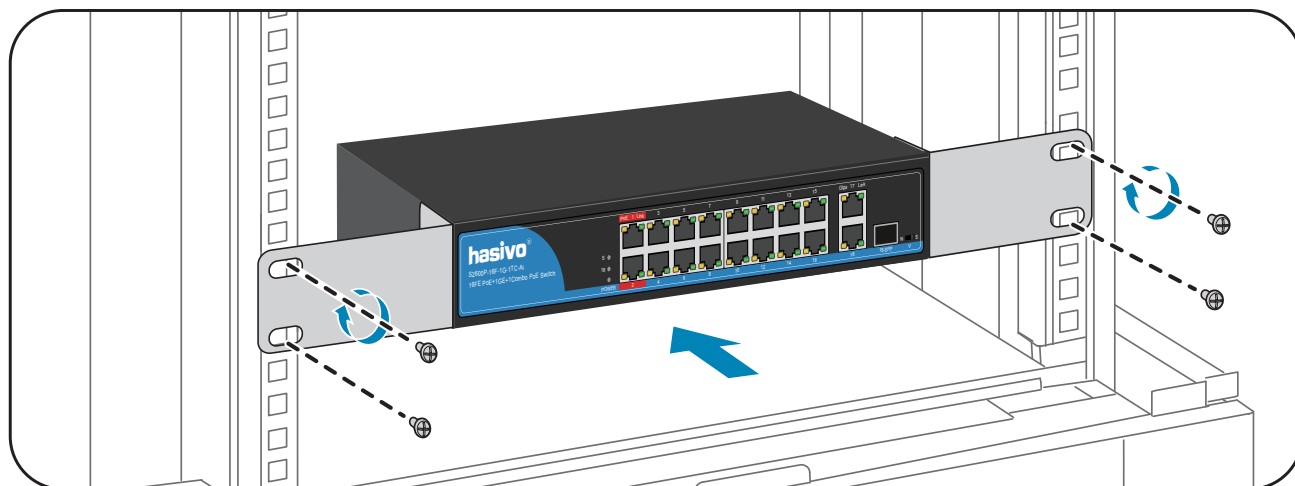
1. install the rack lug attached to the equipment to both sides of the switch with screws



2. Install floating nut on cabinet / rack

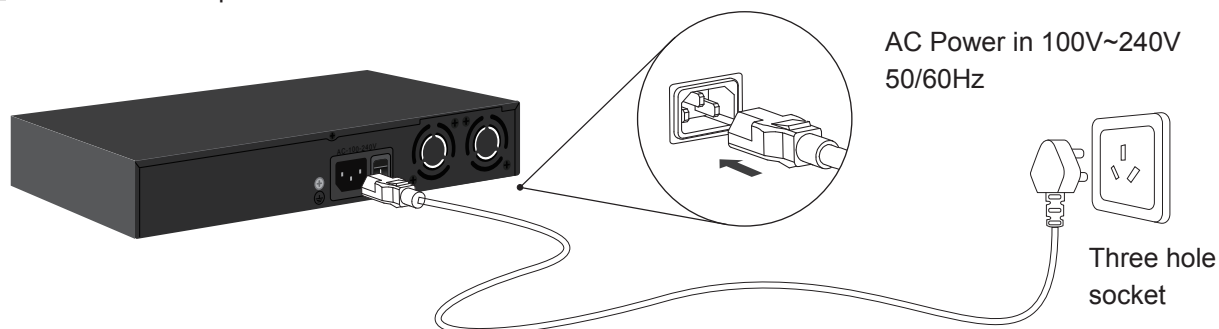


3. Put the switch installed with the lug into the cabinet and screw on the screw to complete the installation.



Power on

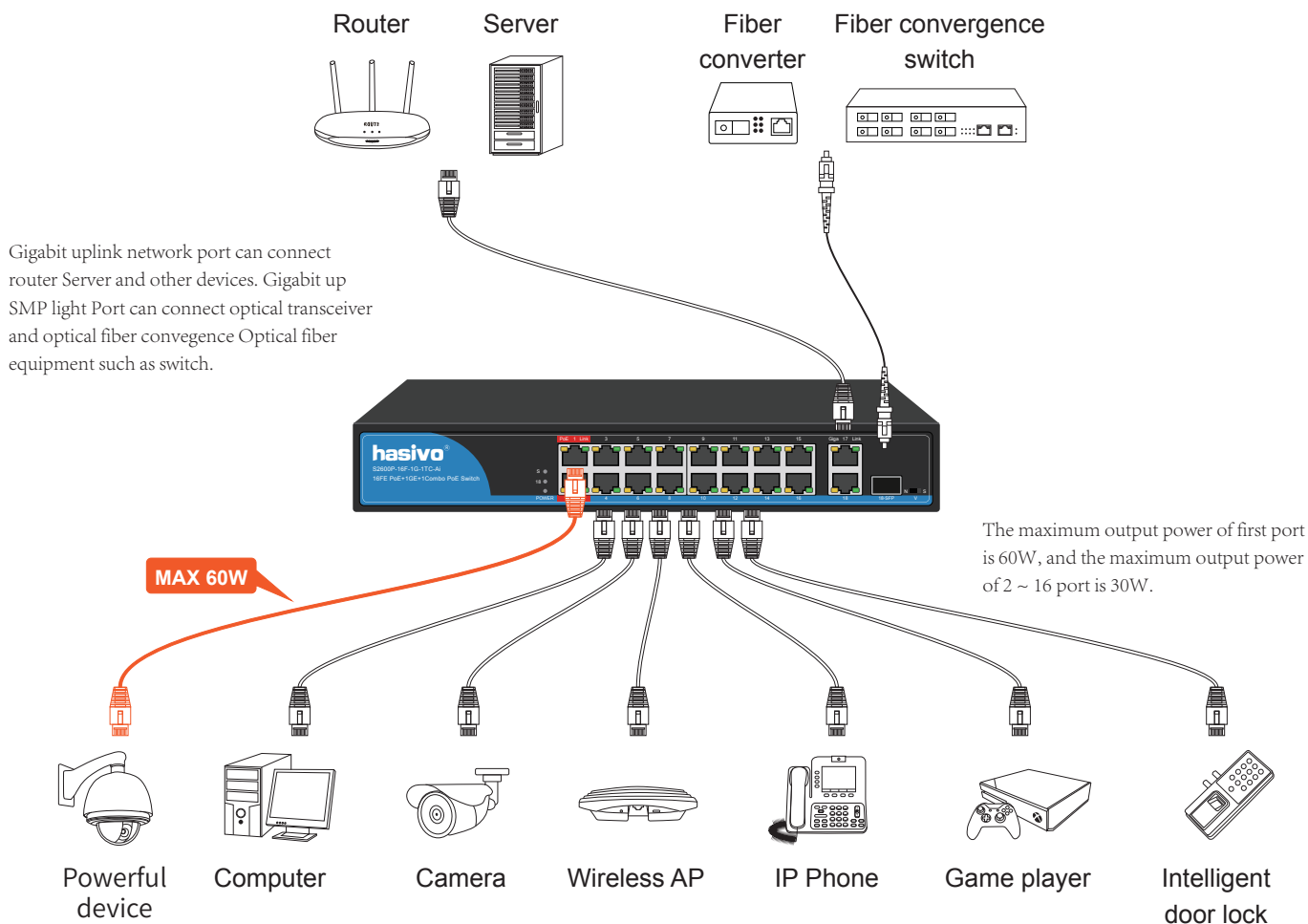
➤➤➤ Connected the power



Points of attention

1. Do not stack heavy objects on the switch to avoid danger.
2. In order to avoid the risk of electric shock, please do not open the machine box when the switch is working, even if it is not powered on, please contact us in case of any problem.
3. Before cleaning the switch, pull out the power plug of the switch. Do not wipe it with wet fabric or clean it with liquid.
4. If the power adapter is damaged, do not replace it with other power adapters. This switch should be equipped with original power adapter.

05 Application



06 Common troubleshooting

- ⚠ The PWR indicator is not on after the power is connected → Check whether the power adapter and plug are connected correctly, whether the power cord is damaged, and whether the power adapter is damaged.
 - ⚠ Switch cannot communicate after power up → Check whether the switch indicator is on. If the indicator is off, the network cable is not connected. If the indicator is on, the communication fault is indicated.
 - ⚠ Switch network speed suddenly become very slow → Take off the plug and restart the switch.
- [If the above problems or other switch problems can not be solved, please contact us for technical support]

07 Product Parameter

Model	S2600P-16F-1G-1TC-Ai
Product	Hybrid Gigabit Uplink 16+2+1 Ai PoE Switch
Fixed Port	16*10/100Base-TX PoE port (Data/Power) 1*10/100/1000Base-TX uplink RJ45 port (Data) 1*COMBO
PoE Ports	1-16 port supports PoE(first port supports HiPoE_60W)
Function	N:(Standard normal) V:(Port Isolation) S:(Super mode) (specific port refers to user manual) Ai version:PoE auto execution、detection and resets fault device,when PoE is on.
PoE Standard	Port 3-16 support IEEE802.3af/at Port 1-2 support IEEE802.3af/at/PoE++/HiPoE
Network Protocol	IEEE 802.3 IEEE 802.3i 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab1000BASE-T IEEE 802.3z 1000BASE-X IEEE 802.3x
Port Specification	10/100/1000BaseT (X) Auto
Power Pin	Default 1/2(+), 3/6(-); Optional order4/5(+), 7/8(-)
Single port power	15.4W/30W(1-2 port output MAX 60W)
Total power	MAX 150W/300W
Transmission Mode	Store and Forward(full wirespeed)
Bandwidth	20Gbps
Packet Forwarding	9.2Mpps
MAC Address	8K
Buffer	4M
Transmission Distance	10BASE-T : Cat3,4,5 UTP(≤250 meter) 100BASE-TX : Cat5 or later UTP(≤100 meter) 1000BASE-TX : Cat6 or later UTP(≤1000 meter) 1000BASE-SX:62.5μm/50μm MMF(2m~550m) 1000BASE-LX:62.5μm/50μm MM(2m~550m) or 10μm SMF(2m~5000m)
Watt	Standby Power Consumption: ≤8W
LED Indicator	POWER:Power LED(over-power LED) 18:(SFP LED) S:(Super mode LED) Uplink port:(Orange=1000M、Green=10/100M) Downlink port:(Orange=PoE LED、Green=Link LED)
Power Input	Built-in power AC: 100~240V 50-60Hz 2.1A/4.2A
Operating Temperature/Humidity	-10~+55°C; 5%~90% RH Non coagulation
Storage Temperature/Humidity	-40~+75°C; 5%~95% RH Non coagulation

Product size/Packing size (L*W*H)	295mm*195mm*45mm 410mm*275mm*95mm
N.W/G.W (kg)	1.6kg/2.4kg
Installation	Rack-mount(optional machine hanger spare parts)
Lightning protection level	3KV 8/20us; IP30
Certificate	3C; CE mark, commercial; CE/LVD EN60950; FCC Part 15 Class B; RoHS;
Warranty	Whole device for 1 year(Accessories not included)



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