Industrial Ethernet PoE Switch

VSP510/VSP500/VS510/VS500 Series

Specifications

Statement

The product specifications and information referenced in this manual are for reference only and are subject to change without notice. Unless otherwise specified, this manual is provided solely as a usage guide. No representations, warranties, or guarantees of any kind are made in this manual.

Precautions for using POE:

- If the product has PSE function (POE output), it needs 48V power supply voltage and meets the power requirements of POE output before it can be used;
- If the network port of the product has a POE output port, if it is connected to other non-POE network ports, please use it with caution, and ensure that the access network port is isolated from the ground, otherwise it may cause damage to the connected product!

  A safe way is: let the product use a two-pin switching power supply without ground (AC TO DC, AC input is two-pin instead of three-pin).

1、VSP510 product features introduction:

- Industrial Ethernet switches are designed for reliable and stable operation in harsh industrial environments.
- Support IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE802.3ab, IEEE 802.3z, IEEE 802.3af, IEEE 802.3at protocol, support Gigabit SFP port (optical module) and 10/100/1000Mbps RJ45 port, full dual duplex/half duplex.
- Support DC12V~DC48V wide power input, **POE output is valid only when the power input is 48V (≥96W).**
- The working temperature is -40 ~ 55°C, and the one-piece thickened aluminum alloy shell is more conducive to use in harsh industrial environments, with fast heat dissipation and durability.
- The use of industrial temperature compensation devices is helpful for the switch to maintain a lasting and stable communication rate.
- It can be easily installed on DIN rail and installed in the distribution box. DIN rail installation and metal shell with LED indicators make the switch easy and reliable to plug and play.

Product Mdel	10/100/1000Mbps RJ45 Port	1000Mbps SFP Port	UPLINK	Voltage
VSP510	3（POE）	1	1	12V~48V
VSP500	3（POE）	/	1	12V~48V
VS510	3	1	1	12V~48V
VS500	3	/	1	12V~48V

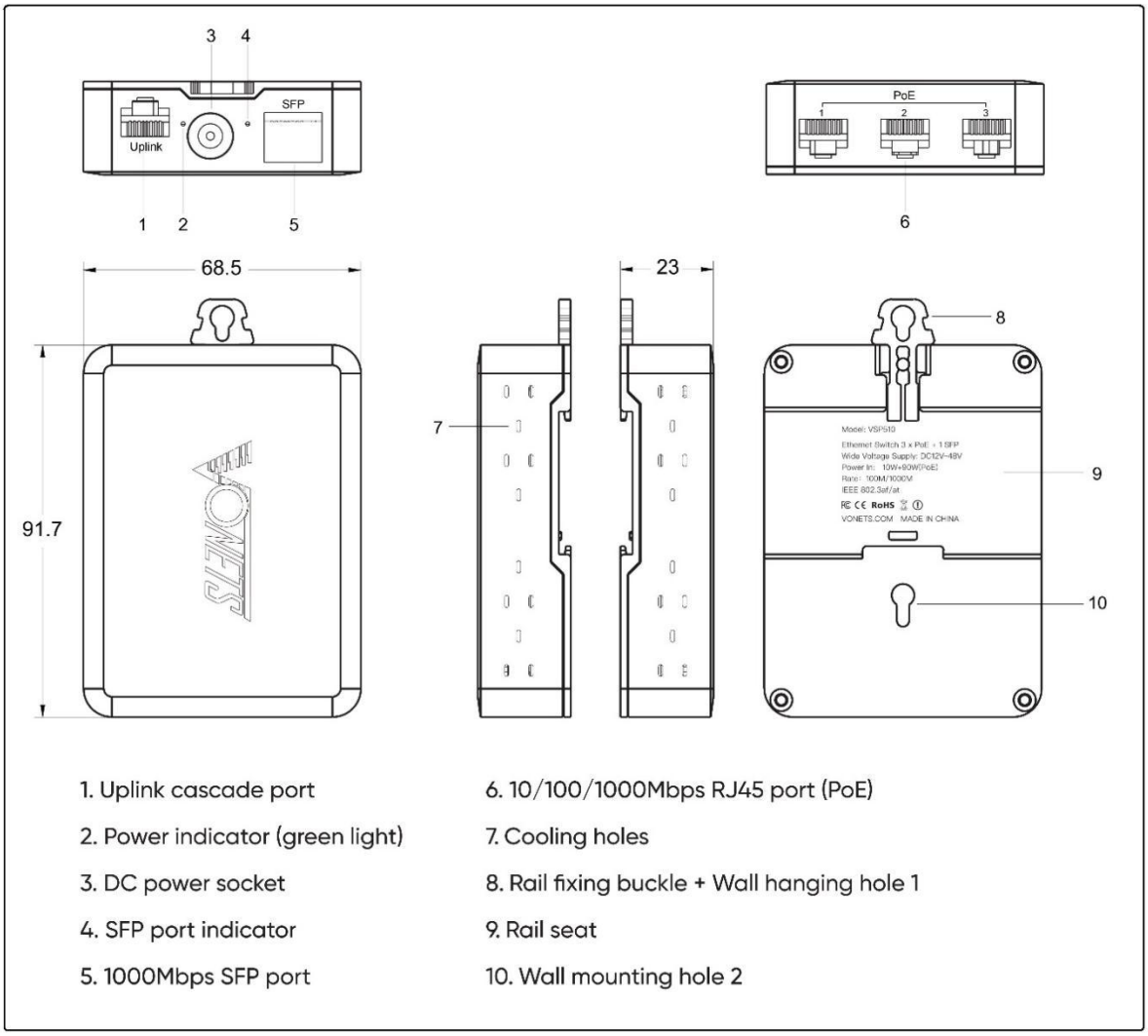
Power Supply Arameters	Supply Voltage	Wide Voltage Power Supply	Typical Power	Ripple
No POE Output Power Supply	DC12V--48V	≥10W	12V/1A	<100mV
With POE Output Power Supply	DC48V	≥96W	48V/2A	<200mV

Free Accessories	Function	
DC terminal block	DC female socket to 2PIN wiring socket	

Optional Models	Function	Performance Parameters
VSF-125-1310-20	SFP Optical Module	Dual fiber 1.25G, wavelength 1310nm, 20km
W&T-AD120W480200	POE Power Supply	48V/96W

1、 SFP Optical Module VSF-125-1310-20(Optional)	2、 W&T-AD120W480200 Power Adapter (Optional)
	

2、VSP510 product dimensions and interface definition:

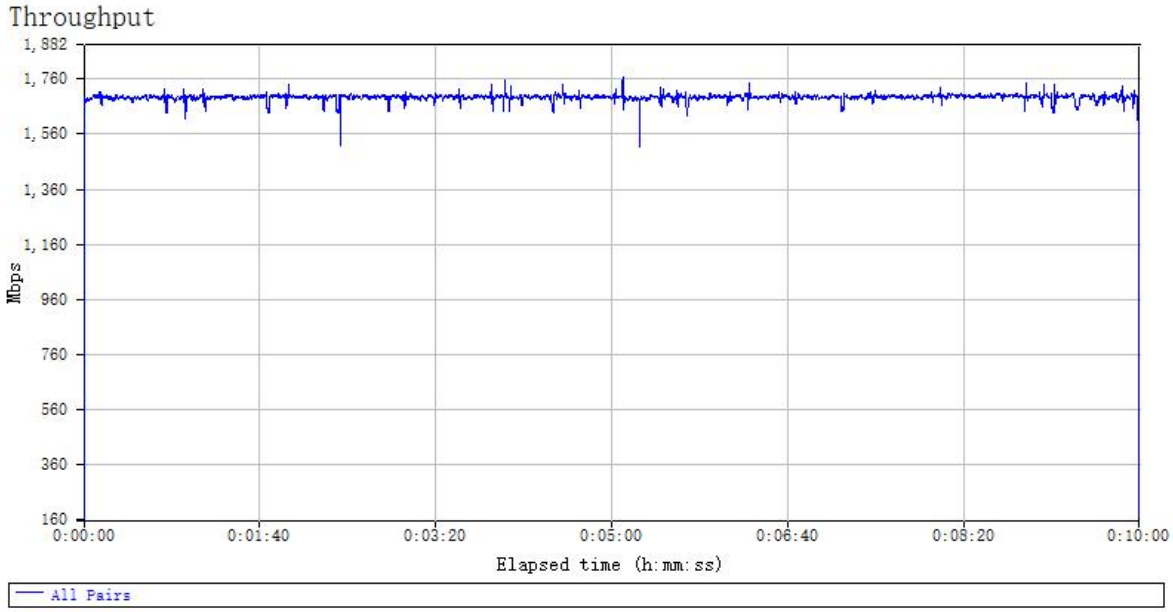


1. Uplink cascade port
2. Power indicator (green light)
3. DC power socket
4. SFP port indicator
5. 1000Mbps SFP port
6. 10/100/1000Mbps RJ45 port (PoE)
7. Cooling holes
8. Rail fixing buckle + Wall hanging hole 1
9. Rail seat
10. Wall mounting hole 2

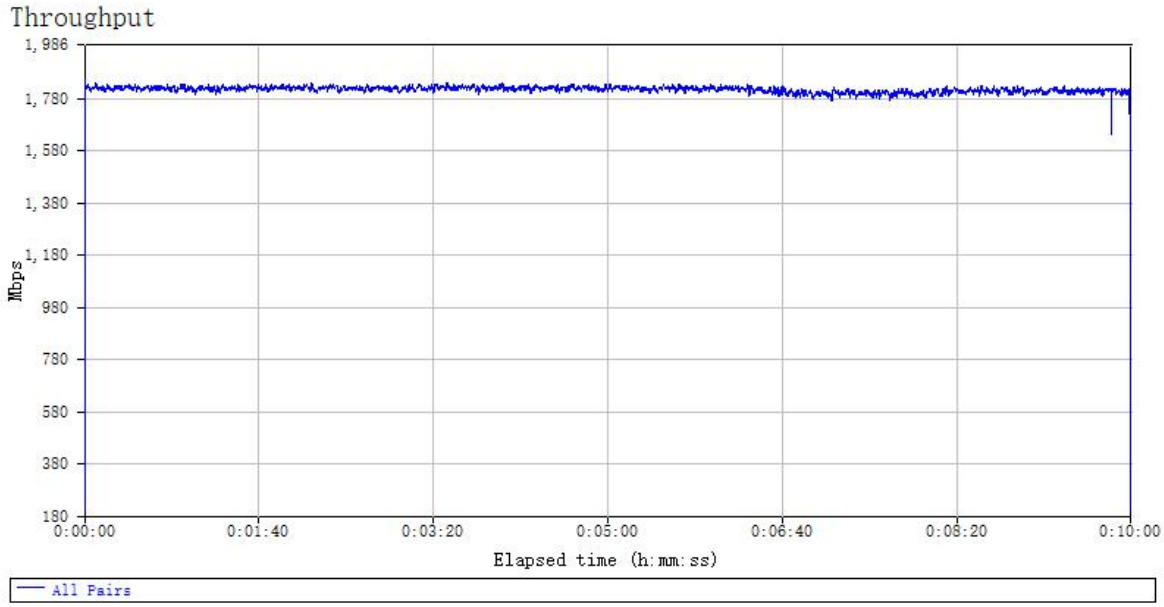
Note: In the actual application environment, if the POE output port (PSE) is connected to a non-POE network port (PD is an access network port), please use it with caution, and ensure that the access network port is isolated from the power ground, otherwise it may cause access to the network port. Damage to the device!

3、VSP510 In kind Effect and track installation diagram:

4、Network throughput test fluctuation graph:



5、Optical module network throughput test fluctuation chart:



6、Parameter Specifications

Parameter Item	VSP510 Industrial Gigabit Switch	
Standard Protocol	IEEE 802.3,802.3i,802.3u,802.3x,802.3ab,802.3z,IEEE 802.3af,IEEE 802.3at	
Power Input	DC input voltage 12V~48V	
	Non-POE input power	10W
	With POE input power	10W+90W
	Input overvoltage protection	<54V~59V
	Load overcurrent protection	<3A
	Input reverse polarity protection (reverse voltage)	<54V
PoE Output	PoE Standard IEEE 802.3af/at	
	POE port maximum output power 30W	
	The maximum output power of the whole machine POE is 90W	
Operating Temperature	-40℃~55℃	
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