Industrial Ethernet PoE Switch

VSP500/VS500 Series

Specifications

Statement

The product specifications and information described in this manual are for reference only and are subject to change without notice. Unless otherwise specifically agreed, this manual is provided for guidance only, and all statements and information herein do not constitute any form of warranty.

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!

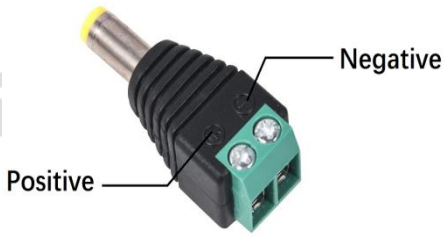
  A safe way is: let the product use a two-pin switching power supply without ground (AC TO DC, AC input is two-pin instead of three-pin).

1、VSP500&VS500 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 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),** At this time, the average actual output power of each POE is approximately 23W;
- Two stage overvoltage protection for power input (cut-off voltage 54V~59V), reverse connection protection for power input (maximum allowable voltage 54V for reverse connection).
- 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 Female	UPLINK (10/100/1000Mbps)	Voltage
VSP500	4(POE)	1	12V~48V
VS500	4	1	12V~48V

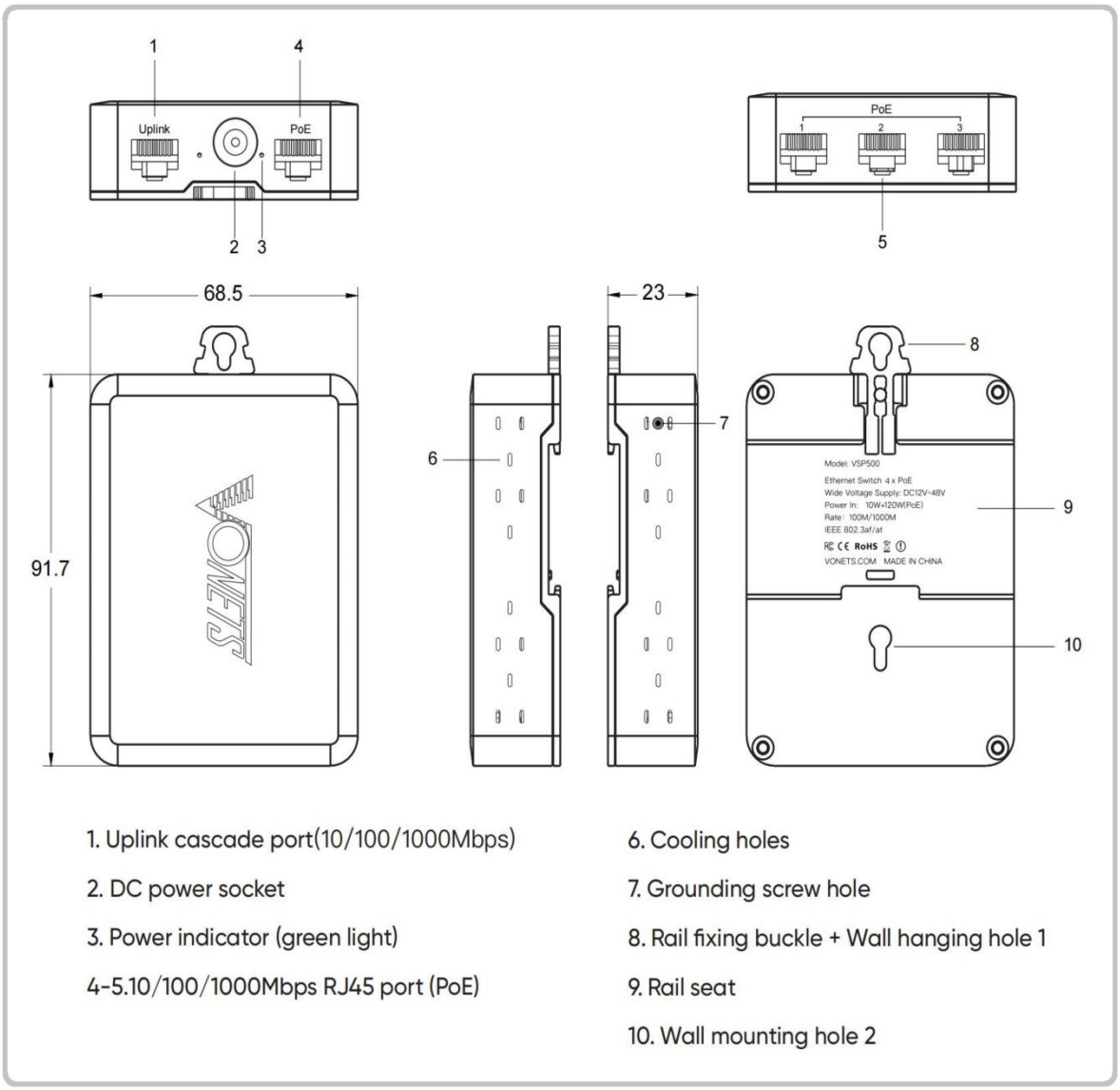
Power Supply Arameters	Supply Voltage	Wide Voltage Power Supply	Typical Power	Ripple
No POE Output Power Supply	DC12V--48V	≥10W	12V/1A	<100mV
With POE Output Power Supply	DC48V	≥96W	48V/2A	<200mV

Free Accessories	Function	
DC Terminal Block	DC Female to 2PIN Wiring Socket	
Grounding Screw	Ground Wire	

Optional Models	Function	Performance Parameters
W&T-AD1936C120300U	Non POE Power Supply	12V/1A/12W
W&T-AD120W480200	POE Power Supply	48V/2A/96W

1、 Power adapter (12V/1A) (without POE option)	2、 W&T-AD120W48020（48V/2A） Power Adapter (Optional)
	

2、VSP500&VS500 product dimensions and interface definition:



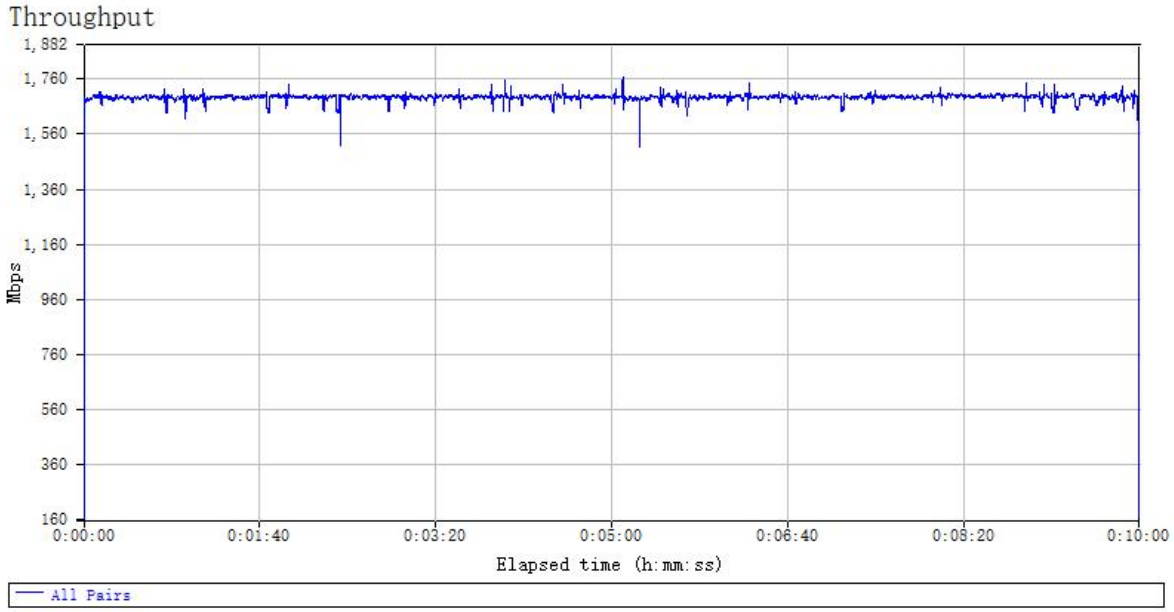
1. Uplink cascade port(10/100/1000Mbps)
2. DC power socket
3. Power indicator (green light)
4-5.10/100/1000Mbps RJ45 port (PoE)
6. Cooling holes
7. Grounding screw hole
8. Rail fixing buckle + Wall hanging hole 1
9. Rail seat
10. Wall mounting hole 2

Note: The VS500 network port does not have POE function and is a regular adaptive gigabit network port;

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、VSP500&VS500 In kind Effect and track installation diagram:

4、Network throughput test fluctuation graph:



6、Parameter Specifications

<table>
<tr><td>Parameter Item</td><td colspan="3">VSP500&VS500 Industrial Gigabit Switch</td></tr>
<tr><td>Standard Protocol</td><td colspan="2">IEEE 802.3,802.3i,802.3u,802.3x, 802.3ab,802.3z,IEEE 802.3af,IEEE 802.3at</td><td>802.3,802.3i,802.3u, 802.3x,802.3ab,802.3z</td></tr>
<tr><td rowspan="6">Power Input</td><td colspan="3">DC input voltage 12V~48V</td></tr>
<tr><td>Non-POE input power</td><td>10W</td><td>50W</td></tr>
<tr><td>With POE input power</td><td>10W+120W</td><td>/</td></tr>
<tr><td>Input overvoltage protection</td><td colspan="2"><54V~59V</td></tr>
<tr><td>Load overcurrent protection</td><td colspan="2"><3A</td></tr>
<tr><td>Input reverse polarity protection (reverse voltage)</td><td colspan="2"><54V</td></tr>
<tr><td rowspan="3">PoE Output</td><td colspan="2">PoE Standard IEEE 802.3af/at</td><td>/</td></tr>
<tr><td colspan="2">POE port maximum output power 30W</td><td>/</td></tr>
<tr><td colspan="2">The maximum output power of the whole machine POE is 120W</td><td>/</td></tr>
<tr><td>Operating Temperature</td><td colspan="3">-20℃~55℃</td></tr>
<tr><td colspan="4">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!</td></tr>
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