

VDU1503P规格书

文档信息

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1. Product Description

VDU1503P is an asset positioning tag designed based on the NRF5283 main control CPU and UWB transceiver chip. The low power consumption and large battery capacity design can achieve high-energy accuracy and long-term positioning of assets. With intelligent mode switching, automatic switching of two different positioning frequencies of static and motion, on the basis of ensuring the use effect, the power consumption is saved to the greatest extent. Two installation methods, sticking and magnetic attraction, can be quickly combined with the label that needs to be positioned



图 1-1 VD1503P 产品图片

2 Basic Parameters

Basic Working Parameters	
Sports refresh frequency	5 Hz
Static refresh frequency	1 Hz
Positioning distance	30-50 米
Battery capacity	ER14250 2 * 1200 mAh (共 2400mAh)
Operating temperature	-20°C ~ 60°C

Storage temperature	-40℃ ~ 85℃
Working humidity	10%~90% Non-condensing
Storage humidity	5%~90% Non-condensing
UWB Parameters	
Frequency Range	3244MHz---6999MHz
Support channel	Ch2 或 Ch5, 带宽 500MHz
Protocol standard	IEEE 802.15.4-2011 UWB
BLE Parameters	(Closed by default, customers can choose to turn on the BLE function)
Storage	512 kB flash/64 kB RAM 256 kB flash/32 kB RAM
Protocol	Support BLE4.2.
Frequency	2400MHz---2483.5MHz
Consumption	
Positioning not started	约为 4mAh/天
Start positioning	约为 12mAh/天
Sustainable positioning time (calculated based on 1 month from production to start of use)	3 month

表 2-1 产品参数

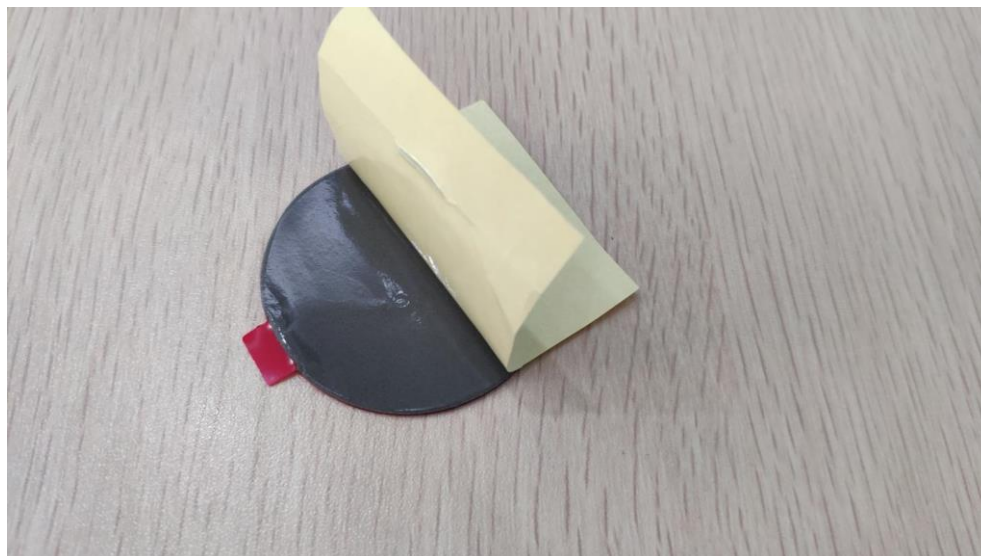
3.2 VDU1503P Installations instructions

3.2.1 Installations with 3M Adhesive

- a. Wipe the screw side of VDU1503P clean to prevent dust or oil stains during use;



- b. Remove the 3M adhesive disc from the greased paper and attach it to the screw side of the VDU1503P.



- b. Put the side of VDU1503P with 3M glue on a flat surface (such as a table) and press it evenly.



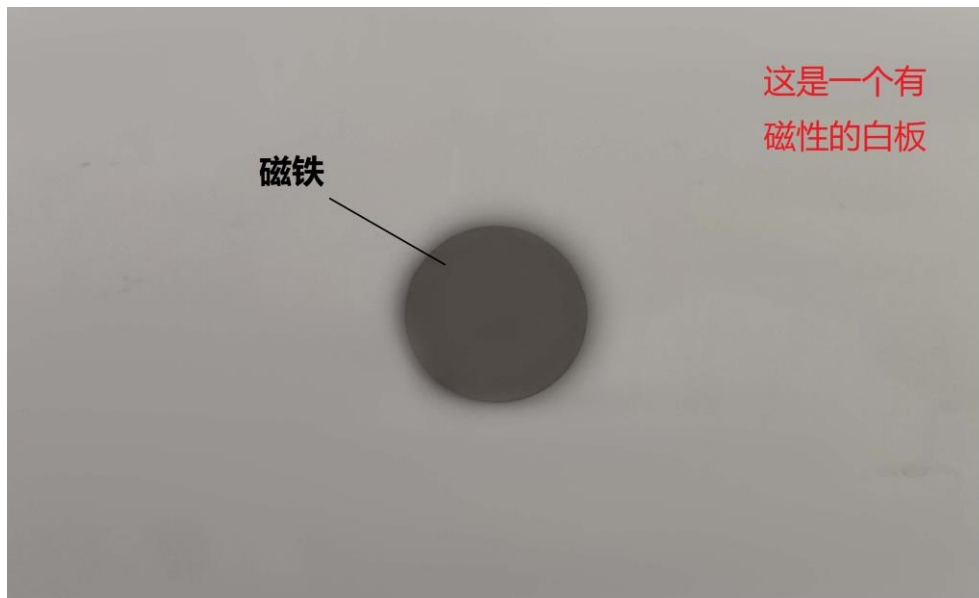
- c. Tear off the 3M adhesive protective film, and paste the 3M adhesive side of the VDU1503P to the target installation position (choose a suitable placement position, if there is dust or oil stains on the target position, clean it up in advance and keep it dry). Then apply pressure evenly for 5-10 seconds.



d.

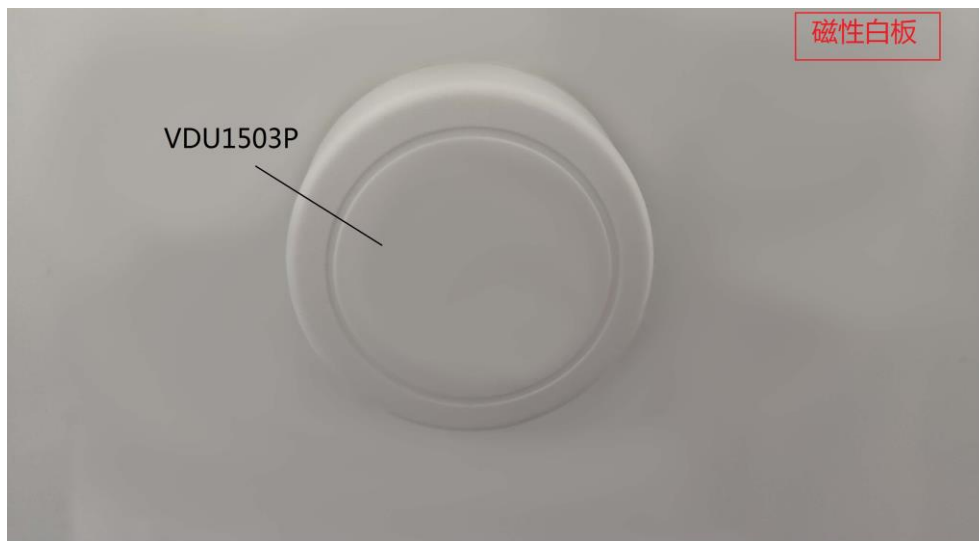
3.2.2 Magnetic installation

- a. **Note: For magnetic installation, you need to confirm in advance whether round iron has been installed inside. Some prototypes that only support 3M glue may not be installed!**
- b. Carefully take out the magnet pieces (the magnets are connected in series, the suction force is large, be careful of hands, it is recommended to operate with gloves), make sure it is clean and dry without obvious stains;
- c. Remove the 3M glue dedicated to the magnet, stick it on any side of the magnet, and put the 3M glue side of the magnet on a flat surface and press for 5~10 seconds;
- d. Choose a suitable installation location (if the target location is iron, 3M glue is not necessary), and ensure that the installation location is dry and free of obvious dust or oil stains.



- d. Remove the 3M adhesive protective film on the magnet, stick it to the target installation position, and press it properly for 5~10s.

e. Attach the screw side of the VDU1503P to the magnet, and try to pull the VDU1503P out of the magnet's attraction range in the direction of the vertical mounting surface. If individual prototypes can be pulled apart with very light force, you may need to replace the magnet or prototype. If the magnetic force is normal, attach the prototype to the magnet and press it properly for 5~10s (to prevent the 3M glue from being pulled away when the magnet is tested for attraction).

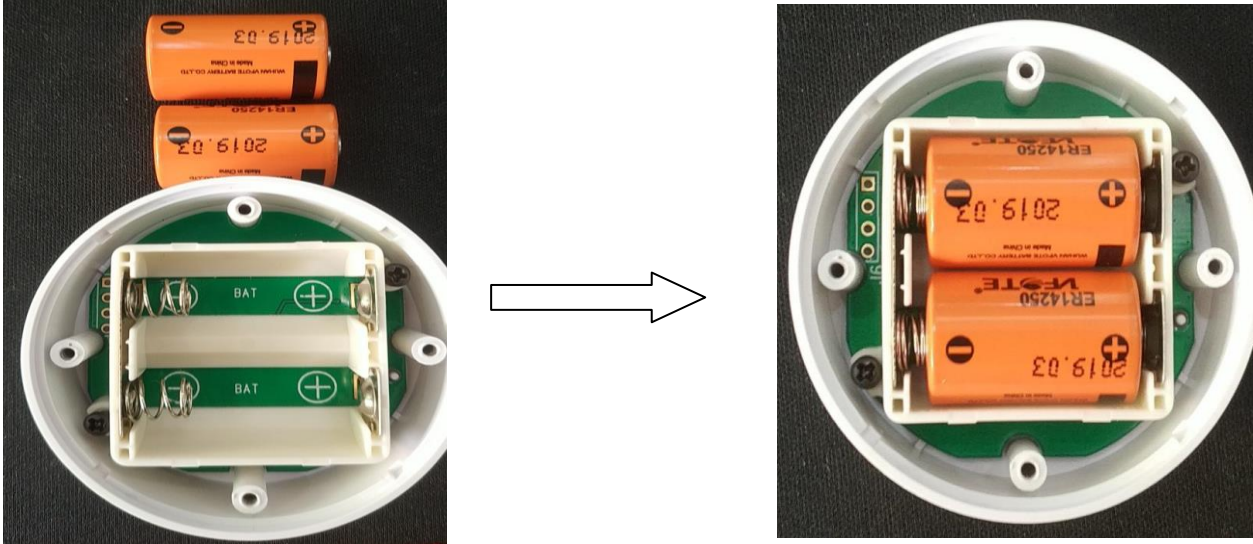


3.3 Battery Replaceable

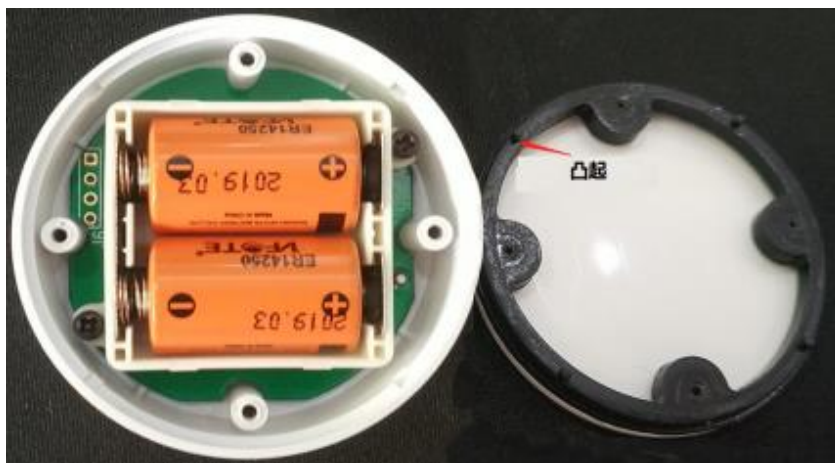
a. Remove 4 screws with a Phillips screwdriver



- b. Open the bottom shell of VDU1503P, align the positive and negative poles, and replace two ER14 250 lithium batteries.



- c. Install the bottom shell and align the grooves around the upper shell with a rubber pin.



- d. Install 4 screws with a Phillips screwdriver



4. Contact

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