



Accurate
positioning

22°43'59.57617"N 114°03'03.61546"E



P2B

RTK handheld positioning Device



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Update

Version	Date	Author	Revise content
V1.0	2022-03-10	Li Song	Initial version

1. Product Description

P2B high-precision positioning device is a new generation of high-precision personnel positioning terminal independently researched and developed by JMS. The product adopts compact and lightweight design, professional RTK positioning chip, with centimeter-level high-precision positioning function, which can realize the positioning, scheduling, trajectory analysis, data collection, and other management needs for the operating personnel with the satellite positioning platform. It is suitable for a variety of application scenarios, such as railroad inspection, fire rescue, forestry patrol, event personnel, data collection, outdoor work, etc.

1.1 Main Functions

(1). High precision positioning

The terminal has a built-in high-precision dual-frequency RTK positioning module, which supports centimeter-level positioning in differential mode. Position information mainly includes: time, longitude, latitude, speed, bearing, positioning mark, etc.

(2). Parameter status query

After receiving the parameter status query command, the terminal returns the current status information of the device. The status information mainly includes: position information, terminal status, local number, return time and other configuration parameters.

(3). Version query

After receiving the version query command, the terminal returns the current version information. Version query includes: terminal model, communication module model,

positioning module model, software version, software release time.

(4). Query track

In conjunction with the management platform, it can query the activity track of the terminal in the specified time period, and can play back the operation.

(5). Electronic fence setting

The terminal supports up to 50 electronic fences, the fences are in the range of rectangle, and the terminal will upload a reminder message when entering or leaving the fences.

Alarm mode: triggered, immediately generate a prompt message when out or in.

6. Server IP and port settings

You can change the IP number and port number of the server to which the terminal is connected at any time. The new IP and port number set by the terminal will take effect immediately after the change.

7. Remote Reboot

After the server sends a remote reboot command, the terminal will automatically power off and restart.

8. Support remote software upgrade

Must be operated with the cooperation of the manufacturer

9. Robbery / help alarm

Robbery/help alarm flag bit is included in the location information. When the alarm button is pressed for more than 0.5 seconds, the alarm will be generated if it is not in the state of robbery/help alarm. The alarm is canceled if it is in the alarm state. The button light will be on for a long time when the alarm is activated. When canceled, it will go out.

Alarm mode: When an alarm is generated for the first time, a message will be uploaded immediately. Later, it will be uploaded according to the interval of timed return.

Alarm canceling method: the center sends a command to cancel the alarm.

10. Blind Zone Supplementary Transmission

When the device is in the blind zone of communication signal, the terminal will automatically

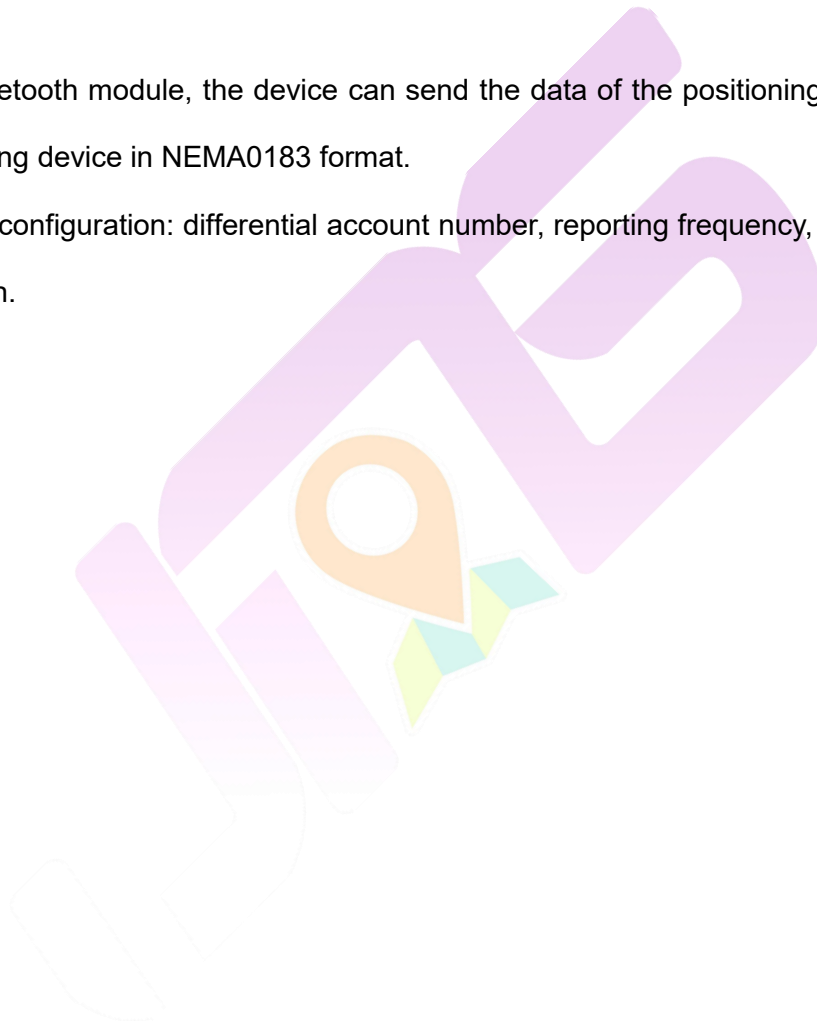
save the position data according to the timed return time, and when the device receives the communication signal, the terminal will automatically upload the data stored in the blind zone to the center.

11. SMS or platform remote query terminal parameters

Send SMS command or GPRS command to query the configuration of terminal parameters; including various parameters of the terminal, such as: TCP/UDP, local number, backhaul time, fault records, etc.

11. Through the Bluetooth module, the device can send the data of the positioning module to the Bluetooth receiving device in NEMA0183 format.

12. Support remote configuration: differential account number, reporting frequency, platform IP and other information.



2. Essential Parameter

2.1 Technical Parameters

Item	Parameter
Working Voltage	DC5V
Peak Current	3A
Operating Temperature And Humidity	-20℃ ~ +70℃ , 20% ~ 95%
Network	LTE-FDD: B1/B3/B5/B8 LTE-TDD: B34/B38/B39/B40/B41 GSM: 900/1800 MHz
Network Type	4G Cat.1
Satellite positioning model	Differential Positioning
Positional Accuracy	RTK 2cm+1ppm
GNSS	■GPS/QZSS L1 L2 ■GLONASS G1 G2 ■BDS B1I B2I
Reporting interval	1 Second (default) (can be configured on the platform)
BT	BT 4.0
Charging Interface	Type-C
Built-in Battery	2500mAH
Working time	8 Hours
Size	130mmX55mmX38mm
Weight	120g

2.2 LED Indicator Definition

Indicator Light	Position	Operating status	LED display
4G (RED)	1.Communication (close to antenna)	NO sim card	2s1t
		Card Outstanding / Searching	lighting
		GSM Registration Success	1s1t
		connected to the server	1s5t
GPS (Green)	2.location	NO Position	Light off
		Located but no RTCM data yet	2s1t
		RTCM data received	1s1t
		Float	1s5t
		Fix	lighting
BT (Blue)	3.Bluetooth	App Connected	lighting
		App not connect	Light off
POWER (RED)	4.Power	Charging	lighting
		Power 75% above	lighting
		Power 25% under	2s1t

Note s: second t: time

3. Equipment usage

3.1 Procedure

(1) Checking the Device

Please first check whether the appearance and packaging of the device are in good condition.

(2) Charging via USB port.

(3) Install the SIM card

Turn on the device and put the SIM card into the card holder.

Please avoid damaging the card holder with excessive force and do not insert or remove the SIM card while the device is powered on.

(4) Turn on the power switch and check whether the indicator light works normally.

- (5) Install and log in the platform, after logging in the platform, make sure the device has been displayed normally on the platform.
- (6) Connect Bluetooth to the handheld APP and pair the device number. (e.g. P2_100001)
- (7) Differential account SMS configuration: send the following command to the device
<SPYC*P:YCGPS*R:140.143.212.042,8002*G:RTCM32_GRC4*Z:qmet6137*M:igt yxz>

3. 2 Physical Diagram



4. After-sales service

1. This product is covered by one-year warranty from the date of installation.
2. No repair for damage caused by customer's private dismantling or force majeure (e.g., flood, vehicle accident).
3. After the expiration of the warranty period, due to the use of the product damage, failure, but need to charge the cost of repair materials.
4. Free to provide customers with product purchase, use, installation and other consulting and technical services.