



Accurate
positioning

22°43'59.57617"N 114°03'03.61546"E



P3

Smart ID Badge



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Contents

1. Product Description	3
1.1 Features	4
1.2 Application	4
1.3 Product rendering	5
2. Hardware parameter	5
3. Main Function	7
4. Indicator Light Definition	10
5. Button Definition	11
6. Parking List	12

1. Product Description

P3 Smart ID Badge features an RTK dual-frequency multi-GNSS module combined with a Bluetooth-based hybrid positioning solution. It supports 4G Cat1 communication and JT 808 protocol, ensuring seamless and efficient platform integration. The device offers real-time positioning, track playback, geo-fence alerts, intelligent sleep mode, TTS voice announcements, and SOS emergency alerts.

The product integrates Beidou, GPS, and Bluetooth for indoor and outdoor positioning. Outdoor positioning uses an L1+L5 dual-frequency multi-GNSS module and a high-precision antenna, achieving positioning accuracy of around 10 cm with RTK processing or 3-5 meters with standard single-point positioning. For indoor positioning, Bluetooth and beacons are used, with platform-based signal analysis achieving an accuracy of 3-5 meters.

A built-in high-sensitivity gravity sensor intelligently switches between work and sleep modes based on movement, maximizing battery life. The product includes a default 1800mAh high-performance lithium polymer battery with a standby time of at least 3 days (based on 5-minute positioning intervals and 8-hour daily operation).

The product features magnetic charging and, when paired with a smart badge charging cabinet, offers battery status monitoring, barcode-based distribution, centralized charging, and smart time-tracking. It supports IP65 protection and can be customized for explosion-proof or third-party certification.

We offer customization services, allowing us to tailor solutions to client needs, including support for L1 single-frequency or L1+L5 dual-frequency multi-GNSS and single-Beidou navigation systems.

1.1 Product Feature

- *4G-CAT1 Full Netcom
- *BeiDou/GPS/Bluetooth
(Bluetooth indoor positioning is a reserved function)
- *Track playback
- *Real-time mode/Battery saving mode
- *TTS voice broadcasting
- *Large-capacity rechargeable battery
- *SOS one-key call for help
- *Telecom/Mobile/Unicom
- *Multiple positioning modes
- *Sleep time configurable
- *Free mode switching
- *Background text broadcasting
- *Long-lasting battery life
- *Electronic fence

1.2 Application

Smart Sanitation | Smart Campus | Smart Construction Site
Intelligent Attendance | Smart Elderly Care | Smart Tourist Attractions

1.3 Product rendering



P3 Front And Back View

2. Parameter

Classification	Description	Specifications
Chip Scheme	Frequency Band	■ GPS L1, L5 ■ BDS B1I ,B2I ■ QZSS L1 ,L5 ■ SBAS L1 Support frequency bands (single or dual frequency) depending on the positioning chip
	4G	Cat.1

	Locate Mode	BDS+GPS+BT
Positioning Performance	GNSS Locating antenna	25X25X2+18X18X2mm L1+L5 Dual-frequency ceramic antenna
	GNSS Positional Accuracy	Common Accuracy: 3-5 M RTK Accuracy: 10 cm
	BDS Cool boot	<30s(OPEN SKY)
	BT Positional Accuracy	3-5m (Option)
human-computer interaction (HCI)	Button	Supports 4 buttons
	Remote parameterization	Supports
	TTS Voice broadcast	Supports remote text delivery and voice broadcasting via the platform
Electroacoustic(al)	Vibration detection	Supports
	SIM Card	Nano SIM Card
	Voice	Loudspeaker
Electrical Specification	Battery	1800mAH Li-ion 3hours (full charge)
	Charging Interface	Contact charging
	charge current	5V 1A Above
	Battery level detection	Supports
	Working voltage	3.7V
	Working Current	Working <=200mA, standby <=3mA
	Stand-by time	≧3 days (no more than 8 hours of exercise per day)

Environmental	Working temperature	-20°C~65°C
	Storage Temperature	-30°C-80°C
	Operating humidity	10%~85%RH, No doubt
	Waterproof / dustproof level	IP65
Form Factor	Size	107.6x60x12mm
	Weight	约 74g
	Material	PC+ABS
	Wearing method	Rope type
Other	Explosion-proof certification	Customers for explosion-proof certification

3. Main Function

On/Off	ON	1. Long press power button for 3 seconds;
	OFF	1. Long press the power button for 3 seconds; 2. Power level is lower than 3.3V, automatic shutdown; 3. Remote shutdown can be configured to not allow users to manually shut down the power.
Working mode	Power save mode (standby)	The device enters flight mode after two minutes of no vibration. Note: After entering flight mode, the platform can not wake up and send data to the device. Wake up: Vibrate or press any button.

	Real-time mode	1.The device enters the flight mode after two minutes without vibration; 2.The device automatically wakes up every 4 minutes after entering the flight mode. 2. The device enters flight mode and automatically wakes up every 4 minutes, and enters flight mode again after working for one minute. Remarks: After entering flight mode, the platform can't wake up, and can't send data to the device to wake up: vibrate or press any key.
	Time-sharing mode	Set a certain period of time as real-time mode and a certain period of time as flight mode. For example, #2014*SET*WT:0630,2130#, set 6:30 to 21:30 as real-time mode and other time as flight mode.
	Flight mode (ultra-long standby)	Disconnect the power of 4G module and GPS module, no more report information; Wake up: any key press
	Mode switching	Background, SMS,2 ways to switch mode.

Voice	TTS voice	TTS voice 1. Text is sent in the background, and the phone actively broadcasts the text. 2;
Remote Upgrade	The platform sends an upgrade command	The device receives the command and performs the remote upgrade.

Note:

- **Real-time mode:** network can be connected, GPS positioning, upload location information every 30 seconds; if GPS can not be located for 2 minutes, turn off GPS, switch to upload location information every 5 minutes, send a heartbeat packet every 2.5 minutes; if the device lasts 2 minutes without vibration, switch to upload location information every 5 minutes, send a heartbeat packet every 2.5 minutes. Send heartbeat packet once.
- **Power Saving Mode:** If you find that GPS can not be located in the power saving mode, then it directly enters the flight mode and no longer reports information regularly. At this time, even if you get the outdoor again, you can't go back to the power saving mode, you need to press the key to wake up.
- **Time-sharing mode:** If GPS can not be located during the real-time mode time, it will enter the flight mode directly and no longer report information regularly. At this time, even if you take it outdoors again, it can not return to the power saving mode, you need to press the key to wake up.

4.Indicator light definition

ID	Operating status	LED display
Network Indicators (blue)	Searching the Internet/Unpaid	lighting
	Successful netting	3S 1T
	App Connected	1S 1T
	No Inserted card	3S 2T
	4G module power off	Light off
Positioning indicator (green)	Positioning Success	3S 1T
	Positioning Failure/ Searching	lighting
	Single Point Solution	2S 1T
	Fixed Solution	1S 1T
	Fixed Solution	1S 2T
	GPS power off	lighting
BT(Yellow)	located	3S 1T
	non-localization	lighting
Power indicator (red)	charging	lighting
	charged	lighting
	Power 20% above	3S 1T
	Power 20% under	1S 1T

Note : S-second T:times

5.Buttons Definition

	short press	Long press
Phone Button	Success: announce “clocking in at work” , receive the platform answer, announce “clocking in at work successfully” . Failure: 1. Not connected to the platform, announcing “Device is not online” ; 2. No answer in 10 seconds, announcing “timeout, please try again later” .	Broadcast signal communication strength
SOS Button	Announcing: Current battery level, XX percent.	SOS Alarms
Power Button		Press and hold for 3 seconds, turn on the device, it will announce: “Welcome to use the Beidou positioning card.” Press and hold for 3 seconds, turn off the device, it announces: “ The device is turned off, welcome to use it again.”

reset button	Success: "Clocking out from work" is announced. Failure: 1. Not connected to the platform, announcing "Device is not online." 2. No answer in 10 seconds, announcing "Open timeout, please try again later" .	Broadcasting the last TTS voice.
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6.Packing list

Packing list	
Item	Quantity
P3 Device	1 pcs
Chargers	1 pcs
User manual	1 pcs
USB Cable	1 pcs
Warranty card	1 pcs
Certificate	1 pcs