

MEITRACK Trackids User Guide





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1 Copyright and Disclaimer

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2 Product Overview

The Trackids device is a personal tracker for children, equipped with the GPRS/GSM module and GPS module. With the network available, real-time position tracking, SOS alarm, and two-way calling can be implemented. In addition, you can press the SOS button to dial the preset phone number in case of emergency, and then the positioning data will be uploaded to the platform. The device can also receive command settings to monitor children's status.

3 Product Functions and Specifications

3.1 Product Functions

- GPS + GSM positioning
- Real-time location query/Track by time interval/Track by distance
- Real-time monitoring by app
- SOS alarm
- Auto answer incoming calls and two-way calling
- Cornering report
- Speeding alarm
- GPS blind spot alarm
- Low power alarm for internal battery
- Enter/Exit geo-fence alarm
- GPRS blind spot resend
- IP65 water resistance rating
- Smart vibration wakeup function

Note: The smart sleep function is enabled by default to reduce power consumption. When the device is inactive (no vibration detected) for 5 minutes, it automatically enters the sleep state. In this way, the GPS is invalid and no data is sent. When the device detects vibration, it will be woken up and then work normally.

The smart sleep function can reduce power consumption, and thus to prolong device usage time.

3.2 Specifications

Item	Specifications	Remarks
Dimension	61 mm x 41 mm x 16 mm	

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Weight	43g	
Weight	43g	
Charging voltage	DC charging port, DC 4.5–5.5 V/500 mA	
Backup battery	600 mAh/3.7 V, Li-polymer battery	
Power consumption	Current in standby mode: 56 mA	For details about the sleep function, see
	Current in deep sleep mode: 4.3 mA	section 3.1.
Operating	-20°C to 55°C	Ensure that the device can work properly in
temperature		this environment.
Operating humidity	5%-95%	Ensure that the device can work properly in
		this environment.
Working hour	140 hours in power-saving mode	
	12 hours in normal mode	
LED indicator	3 indicators showing power, GSM, and GPS status	For details, see section 5.2 "LED Indicator."
Button/Switch	2 buttons/switches	For details, see section 5.1 "Appearance."
Microphone/Speaker	Internal microphone and speaker	Used for auto answer and two-way calling.
Memory	250 KB buffer (Store 3,000 GPRS cache records and	GPRS and SMS: Data will be uploaded
	64 SMS cache records)	automatically after the signal recovers.
Sensor	3-axis accelerometer	Determine movement, stillness, and
		vibration.
Frequency band	GSM 850/900/1800/1900 MHz	
GPS sensitivity	-161 dB	
Positioning accuracy	10m	

4 Device and Accessories

- Trackids tracker
- Trackids Quick Start Guide
- Charger
- Charging cable (circular connector)
- (Optional) Toy



5 About the Trackids

5.1 Appearance





No.	Item	Description	
1	Power indicator (red)	Indicates the charging or low power state. For details, see section 5.2 "LED Indicator."	
2	GPS indicator (blue)	Indicates GPS status. For details, see section 5.2 "LED Indicator."	
3	GSM indicator (green)	Indicates GSM status. For details, see section 5.2 "LED Indicator."	
4	SOS button	Press and hold down the button for 2 seconds in the case of emergency. The device will	
		beep once. The device will also dial three authorized phone numbers in sequence. It will	
		stop dialing when one phone number answers. Meanwhile, the device will send an SMS	
		with positioning information to authorized phone numbers. If the GPRS function is	
		enabled, the device will send a GPRS message to the server.	
5	Microphone	It will operate automatically when the call function is used.	
6	Speaker	It will operate automatically when the call function is used.	
7	Power button	• When the device is turned off, press and hold down the button for 2 seconds. The	
		device will beep twice, indicating that it will be turned on.	
		• When the device is turned on, press and hold down the button for 2 seconds. The	
		device will beep once, indicating that it will be turned off.	
8	Micro USB port	Used for charging the device, configuring parameters, and upgrading software.	
9	Charging port	Used for charging the device.	
10	Lanyard hole	Place the lanyard through the hole.	
11	Elastic rubber cover	After you open the elastic rubber cover, install the SIM card and plug the USB cable into	
		the USB port for charging or parameter configuration.	

5.2 LED Indicator

To start the device, press and hold down the power button for 2–3 seconds. Then the blue and green indicators will blink on for 1 second and blink off for 1 second simultaneously.

GPS Indicator (Blue)	
Steady off	The device is powered off or in sleep mode.
Blink (1 second on and 1 second off)	The GPS is invalid or the device is initializing.
Blink (0.1 seconds on and 5 seconds off)	The GPS is valid.
GSM Indicator (Green)	
Steady on	A call is coming in, or the SOS button is pressed.
Steady off	The device is powered off or in sleep mode.
Blink (1 second on and 1 second off)	No signal is received, or the device is initializing.
Blink (0.1 seconds on and 5 seconds off)	The device is connected to the GSM network.
Power Indicator (Red)	
Steady on	The device is charging.
Steady off	The device is powered off or in sleep mode.
Blink 5 times (0.2 seconds on and 0.2 seconds off	The device has low power.
for 5 consecutive times), and then 5 seconds off	

Note: While using, all indicators of the device will be steady off automatically after it is powered on for about three minutes, and thus to save power. If you want to know about indicator status, press the power button. Then indicators will blink.

6 First Use

6.1 Installing the Device

	1. Open the elastic rubber cover.
R R R R R R R R R R R R R R R R R R R	 Insert the SIM card. Gently push the SIM card into the slot until you hear a click with the gold-colored side facing up. Note: Ensure that the SIM PIN lock is closed, and the SIM card has sufficient balance and has subscribed the call ID service. If you want
	to use the GPRS function, learn about the SIM card GPRS charging first.



3. Close the elastic rubber cover. Press the cover firmly.
 4. Charge the battery. Before using the device for the first time, you are advised to charge the battery for 8 hours. To charge the battery, you can connect the device to the charger or a computer through the USB cable. Note: While charging, the device may heat up. This is normal and does not affect your device's lifespan or performance. If the battery is low, it may affect positioning and data transmission. In this way, charge the battery before using.
Charge with the charger: Connect the USB cable, and plug the charger into the power socket.
(Optional) Attach a lanyard: Attach a lanyard as required.

Note: After you install the SIM card and charge the battery, the device automatically starts, and you can use your device normally.

6.2 (Optional) Placing the Device into the Toy

The device is equipped with a toy (bear or tortoise). Perform the following operations as required to place your device into the toy:

1. Open the zipper at the bottom of the toy.





2. Put your device into the toy with the SOS button facing up.

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3. Close the zipper. The installation is complete.





4. You can press the SOS button in case of emergency.





Please read the following instructions to know more about its functions.

7 Quick Operation Command

Before use, common parameters must be set either by SMS command or by Meitrack Manager.

7.1 Tracking by Mobile Phone

This section describes how to query device's current location.

Call the device's SIM card number, and hang up after the dial tone rings 2–3 times. The device will reply to an SMS with a map link.

Click the SMS link. The device's location will be displayed on Google Maps on your mobile phone.

Note: If an authorized phone number was set by SMS command A71, only this phone number can receive SMS reports.





SMS example:

Now,110727 02:48,V,16,23Km/h,61%,http://maps.google.com/maps?f=q&hl=en&q=22.540103,114.082329

Parameter	Description	Remarks
Now	Indicates the current location.	SMS header: indicates the current location or
		the alarm type.
		For details about the SMS header, see the
		MEITRACK SMS Protocol and MEITRACK GPRS
		Protocol.
110727 02:48	Indicates the date and time in YYMMDD	None
	hh:mm format.	
V	The GPS is invalid.	A = Valid
		V = Invalid
16	Indicates the GSM signal strength.	Value: 1–32
		The larger the value is, the stronger the
		signal is. If the value is greater than 12, GPRS
		reaches the normal level.
23Km/h	Indicates the speed.	Unit: km/h
61%	Indicates the remaining battery power.	None
http://maps.google.com/m	Indicates the map link.	None
aps?f=q&hl=en&q=22.5401	Latitude: 22.540103	
03,114.082329	Longitude: 114.082329	

The following table describes the SMS format:

If your mobile phone does not support HTTP, enter the latitude and longitude on Google Maps to query a location.

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Note: The default tracker password is **0000**, which can be changed by using Meitrack Manager or SMS command. After the password is changed successfully by using an SMS command, only the authorized phone number can receive SMS reports. The common format of an SMS command is: *Password,Command,Parameter*.

7.2 SOS – A71

This command is used to set SOS phone numbers. When you dial a phone number, an SMS report about the location and other funcitons will be received.

• SMS text:

0000,A71,Phone number 1,Phone number 2,Phone number 3

Send the text to the embedded SIM card phone number.

Tip: "," should be an English comma and no space exists before and after the comma.

• The device will automatically reply to the SMS: IMEI,A71,OK. It indicates that the SOS phone number is set successfully. Note:

Phone number: Contains a maximum of 16 bytes. If no phone numbers are set, leave them blank. Phone numbers are empty by default.

Phone number 1: Set the phone number to the SOS phone number. When you call the tracker by using the phone number, you will receive SMS notification about the location, geo-fence alarm and low power alarm.

Phone number 2/3: When you call the tracker, the tracker replies to an SMS with location information.

- When you press the SOS button, the device will dial three authorized phone numbers in sequence. It will stop dialing when one phone number answers. Then the two-way calling is implemented. After hanging up, the tracker will send alarm information to phone numbers.
- When you call the device by using a preset phone number, the device will automatically answer by default and implement two-way calling.

Note: The phone numbers are blank by default. The phone numbers that are set must be separated by comma (",") to avoid setting failures. No comma is required next to the last phone number. For example:

0000,A71,13500000000,,

0000,A71,13500000000,1360000000,

0000,A71,1350000000,1360000000,1370000000

Reply: 353358017784062,A71,OK

To clear all phone numbers, send 0000,A71,,,.



7.3 SMS Time Zone – B35

This command is used to change the SMS report time zone. The default time zone of the tracker is GMT 0. To change the time zone, follow the following instructions:

- SMS text:
 - 0000,B35,SMS minute

Send the text to the embedded SIM card phone number.

The device automatically replies to the SMS: IMEI,B35,OK. It indicates that the time zone is set successfully.

Note: The time zone is in unit of minutes. The default time zone of the tracker is GMT 0, and the time zone of SMS reports is different from that of GPRS data packets.

When SMS minute is 0, the time zone is GMT 0 (default time zone).

When SMS minute is a value ranging from -32768 to 32767, set time zones. Set the China time zone value to 480.

Example:

Sending: 0000,B35,480

Reply: IMEI,B35,OK (The time zone is set to Beijing time successfully.)

For details about SMS commands, see the MEITRACK SMS Protocol.

7.4 Setting the APN – A81

This command is used to set the APN to connect the device to the server.

• SMS text:

0000, A81,APN,APN-USNAME,APN-PASSWD

Send the text to the embedded SIM card phone number.

• The device will automatically reply to the SMS: IMEI,A81,OK. It indicates that the APN is set successfully.

Note:

- APN: max 32 bytes
- APN-USNAME: indicates the APN user name; max 32 bytes
- APN-PASSWD: indicates the APN password; max 32 bytes

For example: "0000,A81,CMNET,," indicates that the APN is CMNET, and the user name and password are blank.

Note: You must enter a complete command (3 commas are a must). If there is a parameter after a comma, it means that the parameter is changed. If not, the parameter set before is cleared.

8 Logging In to the GPS Platform

Visit http://free.trackingmate.com, and use the following account to log in to the platform:

User name: IMEI number

Password: 0000 (default)

You can perform the following operations on the GPS platform:

- Query a location at a certain time point.
- Query historical trips.
- Add favorites.
- View various reports.

For more information about our GPS platform, see the MEITRACK Family GPS Tracking System Free Edition User Guide.



9 MT-SAFE APP

Scan the quick response (QR) code in Figure 10-1 or Figure 10-2 to download the client. With the APP, you can know about your children's location information anytime anywhere.

Figure 10-1 MT-SAFE for Android



Figure 10-2 MT-SAFE for iOS



Note: For details about the APP, see the MEITRACK MT-SAFE User Guide.

10 Safety and Usage Instructions

Use only Meitrack-approved accessories.

Incompatible accessories may cause serious injuries or damages to your device.

Handle the battery and charger carefully.

- Use batteries specified by Meitrack and chargers exclusively designed for your device. Incompatible batteries and chargers may cause serious injuries or damages to your device.
- Do NOT place batteries or devices on fire or in heating devices, such as microwave ovens, ovens, or radiators. Batteries may explode when overheated.

If you have any questions, do not hesitate to email us at info@meitrack.com.