

GT300 GPS Locator User Manual



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1 Introduction

GT300 is a powerful A-GPS Locator with mini size, light weight, superior sensitive receiving ability and fast TTF which works on GSM frequencies 850/900/1800/1900. GT300 is designed for many applications such as human body or vehicle security, the specific target to be tracked, emergency call, the management for specific purpose and target. GT300 have 4 preset number and a SOS number, user can set the 4 number keys and SOS key through software. By using GT300, user can not only realize SOS alarm, real-time location query and voice call functions but also get the device's history track through visiting website.

2 Main Functions

- A-GPS Position
- Voice Call
- Emergency Alarm
- Geo-fencing Alarm
- Remote Control Alarm
- Over-speed Alarm
- Lower power Alarm

2.1 A-GPS Scenario

- TTF(Time To First Fix)
If the device is used in A-GPS network, when GT300 starts A-GPS function, the TTF will less than 12 seconds. The TTF of the GPS (no A-GPS network) is 42 seconds (average).
- Track
The monitor center can inquire GT300 to send back the location information. And GT300 can send its location initiatively or periodically.

2.2 Voice Call

- Emergency Call
When confronted with emergency situations, the user can hold down the **SOS key** to dial the SOS number for help.
- Normal Call
GT300 have 4 **speed dial** keys, which of them is assigned to a phone number. User can press one of them first and then press the **Left soft key** to call this key's preset

number. In addition, user can also dial other preset number from controlled contacts.

- Answer/Reject an incoming Call
Press **Left soft key** to answer call.
Press **Right soft key** to reject call.

2.3 Alarm Function

- Geo-fencing alarm
GT300 provides Geo-fence features that can be used for territory management, prohibited locations, and more. GT300 will automatically send alarm message to the monitor center if the person carrying it enters and/or leaves the predefined areas.
- Remote control alarm
The monitor center requests GT300 to send back its location periodically (e.g. pre-set 1 minute), if the device can not send back its location, the device will be considered to be in an abnormal status.
- Over-speed alarm
Once the velocity of GT300 goes beyond the preset limit velocity (e.g. pre-set 120 Km/h), it will send alarm message to the monitor center.
- Low power alarm
The message of low power notification will be sent before the battery dies out.
- Falling alarm
If GT300 detects falling (e.g. tumble), it will send the alarm message to the monitor center.

3 Parameters

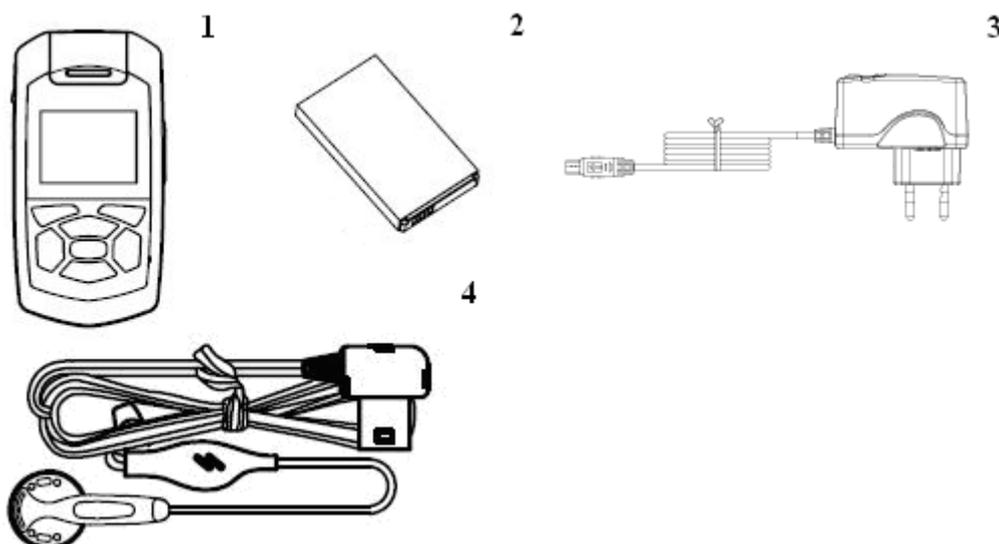
Technical Specifications
Quad-Band:GSM850/900/1800/1900MHz
Compliant to GSM phase 2/2+ - Class 4 (2W @ 900MHz) - Class 1 (1W @ 1800/1900MHz)
Max out RF power: 33.0dBm±2dBm
Dynamic input range: -15 ~ -102dBm
Receiving delicacy: Class II RBER≤2% (-102dBm)
Stability of frequency: Superior to 2.5ppm
Max frequency error: ±0.1ppm
RMS Phase error: ≤5deg
GPS Chipset: SiRF GSD3TW
Frequency: L1, 1575.42 MHz
Channels: 20 channel all-in-view tracking
Reacquisition: 0.1 sec., average
Hot start: 2 sec., average

Warm start: 38 sec., average
Cold start: 44 sec., average
Altitude Limit: 18,000 meters (60,000 feet) max
Velocity Limit: 515 meters/second (1000 knots) max
Dimension: 87mm*44.5mm*17.8mm
Weight: 75g
Battery Backup
Backup batteries: 850mAh
Batteries standby time: 140 hours
Batteries talk time: 2.5 hours
Environment
Operating temperature range: -10°C to +50°C
Storage temperature range: -30°C to + 60°C
Relative humidity: 10% to 95%
Atmospheric pressure: 86kPa~106kPa
Ambient noise: ≤ 60dB (A)
Interface Specifications
USB earphone, AC power adapter and Mini USB cable share a Mini USB interface
1.3", 128*96 Pixels, white light OLED Screen
10 keys: SOS/ Sent /End/Speed Dial*4/Power /Volume+/Volume-

4 GT300 Start-up

4.1 Accessories

1. GT300 Locator
2. 850mAh Li-ion battery
3. AC power adapter
4. USB earphone



4.2 Charging the battery

- Please connect AC power adapter with GT300 for battery charging.
- Insert the AC power adapter into the power.
- During charging, the battery capacity indicator in icon area will flash periodically; when charging at power-off status, charging indicator on the screen means GT300 is charging now.
- When the capacity indicator in icon area is full and doesn't flash any more, the charging process is complete. If your phone is charged in power off status, charging complete screen will also display.
- You can also charge the battery by USB cable which connects GT300 with the PC.
- Charging process usually takes about 3 hours.

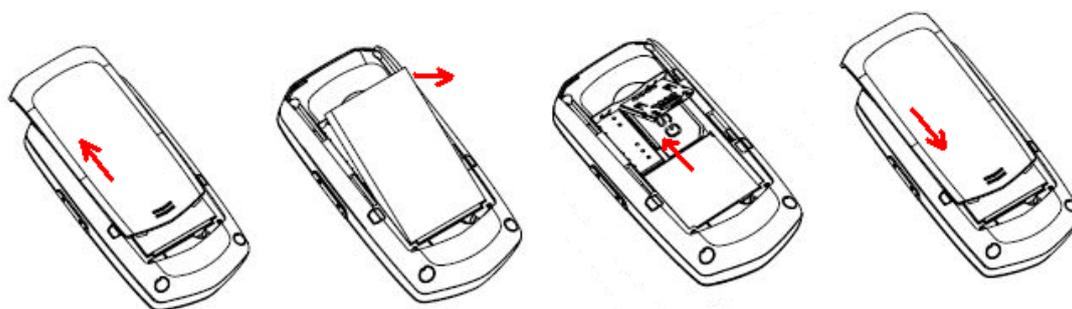
Note: Before your first time using the GT300, please full charge the battery.



4.3 Install SIM Card

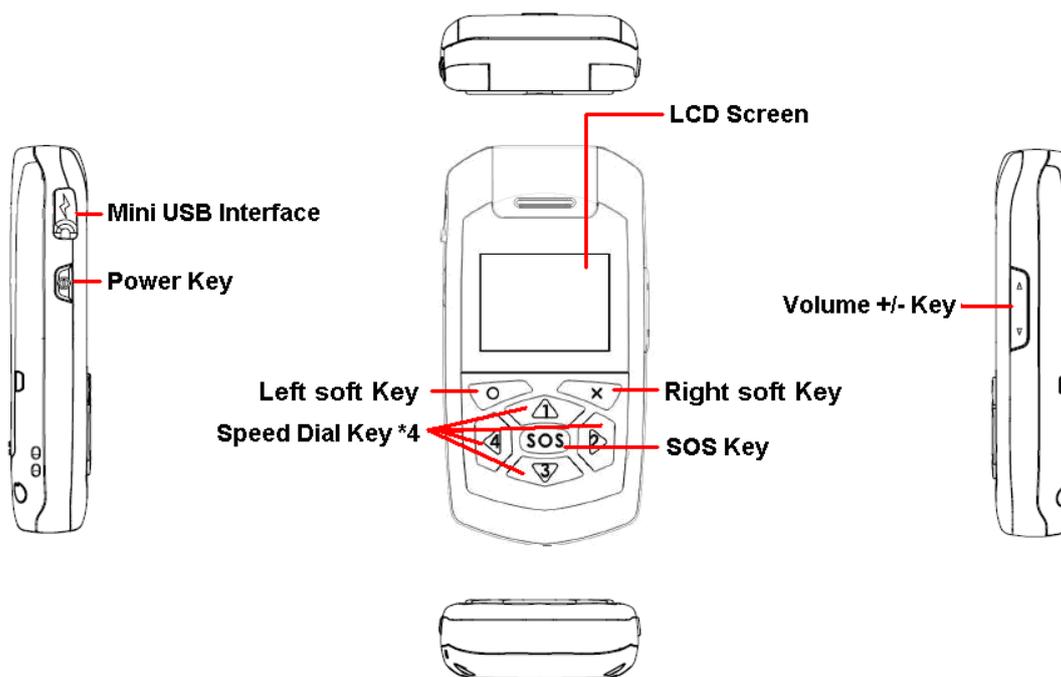
- Turn off the GT300; put up the battery cover, and then remove battery and its cover;
- Move the SIM card slot cover up, pull it up, and insert the SIM card into the SIM card slot according to the direction shown, then close the cover and move it down to lock;

- Pull back the battery and close its cover.



5 Product Overview

5.1 Appearance



5.2 Keypad and MINI USB interface Description

Keypad Function description	
Power Key	<ul style="list-style-type: none"> ● Hold down this key to turn on / turn off GT300 ● On standby, press this key to lock/unlock the keypad.
Volume +/-Key	<ul style="list-style-type: none"> ● On standby, press this key to Increase or decrease the keypad volume;

	<ul style="list-style-type: none"> • While in talking, press this key to Increase or decrease the voice volume. • In menu, press this key to page up or down. • Press this key to set alarm time.
Left soft key	<ul style="list-style-type: none"> • On standby, press this key to enter the main menu. • Press this key to perform the function of the prompt displayed in lower left corner of the screen. • Select a contact and then press this to dial call. • When there is an incoming call, press this key to answer the call.
Right soft key	<ul style="list-style-type: none"> • Press this key to perform the function of the prompt displayed in lower right corner of the screen. • While in talking, press this key to end a call. • When there is an incoming call, press this key to reject the call. • On standby, hold down this key to switch General and Silent mode.
Speed dial (1、2、3、4) key	<ul style="list-style-type: none"> • On standby, press this key to show the preset contact. • In menu, press Speed dial 1 or 3 key to page up or down. • In most submenus, press Speed dial 2 key to return the previous menu; press Speed dial 4 key to open the next menu.
SOS key	<ul style="list-style-type: none"> • In any interface, hold down this key to dial the SOS number. • When in unlocking SIM Card, press this key to enter a PIN number.
MINI USB interface description	
Mini USB interface	<ul style="list-style-type: none"> • Plug in the AC power adapter to this interface for charging battery. • Before you use the USB_earphone, insert it to this interface.

Note: In this manual, the phrase “press the key” refers to pressing and thereafter releasing a key; “Hold down a key” refers to pressing a key and keeping it depressed for 2 seconds or longer.

5.2 Icon Description

Icon	explain	Display place
	Signal intensity of internet	icon area
	GPRS connect	icon area
	Keyboard is locked	icon area
	Silent mode activated	icon area
	Earphone mode activated	icon area
	Ring mode	icon area
	Vibration mode	icon area
	Receive short message	icon area
	Startup alarm	icon area
	Display batteries energy	icon area
	Missed calls	icon area

6 Basic Function

6.1 Turning GT300 on or off

To turn on GT300, please hold down **Power key**.

GT300 will then automatically test whether the SIM Card is inserted and valid. If you set the SIM Lock, GT300 will ask you to input PIN to unlock the SIM card. And then GT300 will conduct a search to find the appropriate network connections.

In state of power-on, hold down **Power key** to turn off GT300.

✧ **Unlocking the SIM card**

In order to protect against unlawful usage, the SIM card uses a PIN number. If you insert a SIM in to GT300 which has a PIN Code enabled on it, you must enter the PIN so as to unlock the SIM card before you use GT300.

1. Press **Speed Dial 2/4 key** to scroll the rectangle outline on the screen sideways.
2. Press SOS key to enter an appropriate number; press **Right soft key** to clear mistakes.
3. Finish by pressing **Left soft key**.
4. If the correct Pin number has been entered, you will see a Code accepted message displayed on the screen.

Note: You generally have 3 attempts to enter the correct Pin number, after this you may have to contact your service provider to unlock your SIM.

6.2 Make a normal call

- User can preset 20 controlled contacts by software and the first four numbers are the Speed Dial number (1,2,3,4)
- When you want to make a phone call, first press **Speed Dial x key**, and then press **Left soft key** to call this preset number.
- Press end key to end the call while in dialing process.
- If the call is received, it will be in talking state.
- Press **Right soft key** to end the call while in talking state.

6.3 Make a emergency Call

- At first, user should preset one SOS number.
- When confronted with emergency situations, the user can hold down the **SOS key** with any case to dial the SOS number for help.

7 Function Menu

Menu Tree

1. Call History

- 1.1 Missed Calls
- 1.2 Dialed Calls
- 1.3 Received Calls
- 1.4 Delete Call Logs

2. Check GPS

3. Messages

- 3.1 Inbox
- 3.2 Delete Inbox

4. Sound

- 4.1 Alert Mode
- 4.2 Ring Tone
- 4.3 Ring Volume
- 4.4 Keypad Volume
- 4.5 Alarm Tone
- 4.6 Message Tone

5. Setting

- 5.1 Time and Date
- 5.2 Language
- 5.3 LCD Backlight
- 5.4 LCD Contrast
- 5.5 Auto Keypad Lock
- 5.6 Auto Answer
- 5.7 Restore Factory Setting

6. Alarm

7. Contact

- 7.1 Speed Dial
- 7.2 Controlled Contact
- 7.3 SIM Contact (optional)
- 7.4 SOS number

Note: SIM Contact menu only shows when GT300 is set to use SIM card contacts function.

7.1 Call History

The call History stores the last twenty **missed /received /dialed calls**.

Press **Left key** to enter the Call History menu. There are 4 items in this menu, “**Missed**

calls”、 “ Dialed calls”、 “ Received calls”、 “ Delete call logs” respectively. Press **Speed Dial 1/3 key** to scroll these items and press **Left soft key** to enter the selected item.

- **Missed calls:** list missed calls
- **Dialed calls:** list dialed calls
- **Received calls:** list received calls
- **Delete call logs:** When the record is not empty, you can delete record of **Missed Calls, Dialed Calls and Received Calls** , or select the “**Delete All**” option to delete all call record.

7.2 Check GPS

GPS location acquisition test can be performed by using this option located in the main menu.

Press **Left soft key** to enter the Check GPS.GT300 will search GPS signal and fix location. When GPS positioning is success, the screen will display your location information, including longitude, latitude, speed etc.). Then according to the home city and daylight saving setting, GT300 will automatically adjust system time with GPS UTC time.

Note: Different Home city which you select is corresponding to different time zone.

7.3 Message

In main menu press **Left soft key** to enter message menu. There are two items in this menu, “**Inbox**” and “**Delete Inbox**”. Press **Speed Dial 1/3 key** to scroll these items and press **Left soft key** to enter the selected item.

- **Inbox:**
When receiving a message, GT300 will vibrate or ring to notify of a new message. If you don't read immediately, an unread message icon appears on icon area. If there is no room to store, you will see the glittering icon of the new message on the screen.

Press **Left soft key** to read the details of the message in message list. If you want to delete this message, press **Left soft key** to delete and confirm this by pressing **Left soft key** again.

Note: The Inbox limit is 200 SMS messages.

- **Delete Inbox:** Press **Left soft key** to delete all messages in inbox and confirm this by pressing **Left soft key** again.

7.4 Sound

In main menu press **Left soft key** to enter Sound menu. There are six items in this menu:

- **Alert Mode:** Ring or Vibration
- **Ring Tone:** 25 ring tones
- **Ring Volume:** 1---7
- **Keypad Volume:** 1---7
- **Alarm Tone:** 25 ring tones
- **Message Tone:** 10 Tones or Silent

7.5 Settings

In main menu press **Left soft key** to enter Setting menu. There are seven items in this menu:

- **Time and Date:**
 - Set Home City** Select the Home city in 77 cities.
 - Set Time/Date** Set the current time and date of GT300 according as established format.
 - Set Format** Set time and date format
- **Language:** Select the current language.
- **LCD Backlight:** Set Backlight level.
- **LCD Contrast:** Set Contrast level.
- **Auto Keypad Lock:** Select from **5 sec**, **30sec**, **1min** and **5min**, on standby, if you do nothing in the time of setting, keypad will automatically lock. If you select **off**, cancel this function.
- **Auto Answer:** Select on/off auto answer function. When this function is activated, GT300 will answer the incoming calls automatically.

7.6 Alarm

GT300 can set five alarms at most, and hold out the alarm when the phone is power off. Select one alarm, can set to turn **on/off**, **time**, **Repeat**, **Snooze(mins)** and **Alert Mode**.

7.7 Contact

Although GT300 only has 4 speed dial keys, it can store a total of 20 numbers in its Controlled Contact. These numbers are preset and managed from the software platform.

Press **Left soft key** to enter Contact menu. There are three items in this menu:

- **Speed Dial:** This will shows the speed dial key numbers form 1 to 4.
- **Controlled Contact:** This will shows all controlled numbers, use Speed Dial 1/3 key to scroll through the numbers. Press **Send key** to dial the selected number.

- **SIM Contact:** This will shows all numbers saved in SIM card, use Speed Dial 1/3 key to scroll through the numbers. Press **Send key** to dial the selected number.

Note: This menu only shows when GT300 is set to use SIM card contracts function.

- **SOS number:** This will show the current set SOS alert number.

8 Troubleshooting and Safety info

8.1 Troubleshooting

Trouble	Reason	Solution
Poor reception	Using the device in an area with poor reception such as near tall buildings or in a basement where radio waves cannot be transmitted.	Try to avoid.
	Using the device when the network is busy, such as during rush hour, when the lines are full making it impossible to get through.	Try to avoid.
	Related to the distance from the base station built by the network.	You can request that the network service provider provide a service area plan.
Echo or noise	Caused by poor network relay, a regional problem.	Hang up and redial, if the relay is changed then the line may be better.
	Some calling regions have poor lines.	
Shortening of the standby time	Standby time is related to the network system.	Please temporarily turn off your device, as you are located in an area with poor reception.
	Batteries need to be replaced	Replace the batteries
	When you cannot get a signal, the phone will continue to transmit in order to find a base station, thereby expending large amounts of electricity will cause the standby time to decrease.	Please move to an area with a strong signal or temporarily turn off your device.

Unable to turn on the device	The battery is empty.	Look at the remaining electricity or recharge.
SIM card malfunction	SIM card is damaged.	Contact your network service provider.
	SIM card is not properly inserted.	Confirm SIM card is properly inserted.
	There is a foreign substance on the metal surface of the SIM card.	Use a clean cloth to wipe off the metal contact point of the SIM card.
Unable to connect with the network	Expired SIM card	Contact your network provider.
	Outside the GSM service area	Consult your network provider on the service area.
	Poor signal.	Please move to a place with a better signal and try again.
Incorrect PIN number	Consecutively enter the wrong password three times.	Contact your network provider.
Unable to charge	Battery or charger is damaged.	Replace the battery or charger.
	Recharging in the environment of less than -10°C or higher than 45°C.	Change the charging environment.
	Poor contact	Check if the plug is properly connected

8.2 Safety info

- Please do not immerse the device in liquids.
- Please do not store the device in wet, dirty or dusty environments.
- Please do not expose the device to extreme temperatures.
- Please do not place the phone in or near microwave emitting devices.
- Please do not operate or store the device near flammable materials.
- Please do not use the device in restricted areas without permission.
- Avoid dropping, throwing or putting heavy pressure on the device.
- Please do not attempt to, or actually open, or alter the device or any of its accessories from its casing in any way.
- Only use authorized approved accessories with the device.

9 Compliance with FCC Regulations

SAR information:

The SAR limit of USA (FCC) is 1.6 W/kg averaged over one gram of tissue. Device types GT300 (FCC ID: XMR-16182009001) has also been tested against this SAR limit. The highest SAR value reported under this standard during product certification for use at the ear is 1.161 W/kg and when properly worn on the body is 1.326 W/kg. This device was tested for typical body-worn operations with the back of the handset kept 1.5cm from the body. To maintain compliance with FCC RF exposure requirements, use accessories that maintain a 1.5cm separation distance between the user's body and the back of the handset. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.