



# **LTE-M + GNSS Rechargeable Tracker for individual/Vehicle**

## **Quick Guide**



## **NT35E**

Please read the quick use guide carefully before using it, so as to operate it quickly.

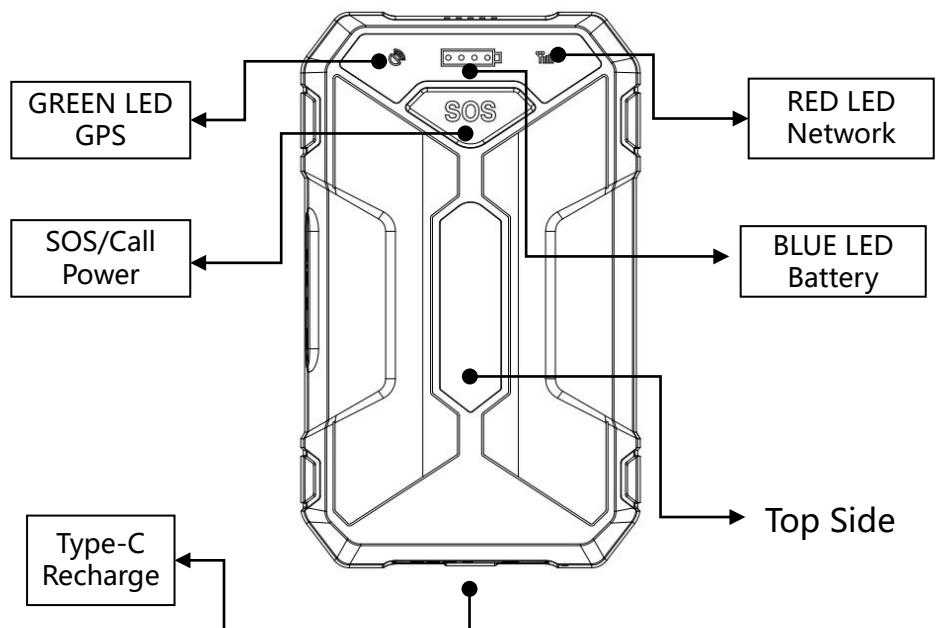
Product appearance, color and accessories are subject to change without prior notice!



## FEATURE

- GNSS/WiFi/LBS/AGPS
- 2900mAh Rechargeable Battery
- Overspeed/ Low Battery Alarm
- Temperature Detection
- LTE-M
- Two-way Call and SOS
- IP67 Waterproof
- Type-C and DC 5V/2A

## KNOW NT35E



**Notice:** Top side toward Sky will get best GNSS Signal

## LED INDICATION

### LED

### STAUTS

#### GREEN LED ( GNSS Signal Indicator)

Stays On GNSS Fixed

Slowly Blinking (On 2s / Off 2s) WiFi Positioned

Quickly Blinking (On 0.5s / Off 0.5s) LBS Positioned

Stays Off GNSS Fixed Failure

Note: The LED will Off after hibernation.

### LED

### STAUTS

#### RED LED (Cellular Network Indicator)

Stays On Module Restarting

Blinking (On 0.2s /Off 0.2s) Searching Cellular/Network

Blinking (On 0.2s /Off 1s) Network registration succeeded

Blinking (On 0.2s /Off 2s) PDP activated (APN dialing)

Blinking (On 0.2s /Off 5s) Connected to the server of Platform

### LED

### STAUTS

#### BLUE LED ( Battery Charging Indicator)

USB Plugged in, charging status	4 LED cycles on in turn	Battery is in charging
	4 LED stays on	Battery fully charged
USB is not plugged in, each pressing power button, LED will display battery status	4 LED stays on	Battery capacity 81%-100%
	3 LED stays on, 1 LED blinking	Battery capacity 75%-80%
	3 LED stays on, 1 LED off	battery capacity 56%-74%
	2 LED stays on, 1 LED blinking, 1 LED off	battery capacity 50%-55%
	2 LED stays on, 2 LED off	battery capacity 30%-49%
	1 LED stays on, 1 LED blinking, 2 LED off	battery capacity 25%-29%
	1 LED stays on, 3 LED off	battery capacity 10%-24%
	1 LED blinking, 3 LED off	battery capacity 1%-9% and low voltage.



## TECHNICAL PARAMETERS

BATTERY	Rechargeable polymer lithium battery (3.7V, 2900mAh)	
CURRENT	Average Current<100mA Sleep Current<100uA	
DEMENTION	85mm*52mm*19mm	
WEIGHT	95g	
WORK/STORAGE TEMPERATURE	-20°C ~ 70°C / -40°C ~ 85°C	
RELATIVE HUMIDITY	5% ~ 95%	
BAND	<b>NT35E (LTE-M, Suitable all over the world )</b> Cat M1 LTE-FDD: B2/B4/B12/B13	
GNSS FREQUENCY	GPS L1:1575.42MHz	BD B1: 1561.098MHz
CHARGING	DC5 V 2A	

## WORKING MODES

### ● Intelligent Tracking Mode

Device has a built-in high-sensitivity vibration sensor, which can monitor vehicle or asset motion state, it will report data at a short interval when it is moving and at a long interval when it is static for long time. In static state, the power consumption extremely low to realize an intelligent power saving strategy.

COMMAND: **HC,T1,T2#**

T1/T2: Time interval in moving/static status, example: **HC,30,900#**

### ● Time Period Tracking Mode (**Under Intelligent Tracking Mode**)

Device will work in real time tracking mode in a certain time period and enter deep sleep in other time periods;

COMMAND: **TIMESEGMENT,T1,T2#**

T1: Start time in HHMM format, for example, 0800 means 08: 00;

T2: End time in HHMM format, for example, 1800 means 18: 00;

### ● Regular Time Point Mode

Device wakes up periodically according to the set regular timing interval, after data reports it will goes into deep sleep.

COMMAND: **HX,T#**

T: Each deep sleep time peroid, example: **HX,1440#** means wakeup every 24h.

### ● Exact Time Point Mode

Device will wake up at the certain time points, it can set up at most 4 wake-up time points, after data reports it will goes into deep sleep.

COMMAND: **WAKEUP,T1[,T2[,T3[,T4]]]#**

T1...T4: Exact Time point, 0830 means 08:30; **WAKEUP,0800,1000,1530,1900#** means device wake up in 08:00,10:00,15:30,19:00, report and sleep.



## ALARM

- **SOS Alarm:** When SOS button is pressed for a while, device will report an overspeed alarm to the platform.
- **Over Speed Alarm:** When device speed higher than over speed alarm value, device will report to the platform.
- **Collision Alarm:** When device detect a collision event, it will report collision alarm to the platform.
- **Low Power Alarm:** When built-in battery power is less than 10%, device will report low power alarm to the platform untill device is charged.



## DEBUGGING

When your device has the following faults, please refer to the following troubleshooting scheme. If you still can't solve it, please contact your vendor or service provider!

PROBLEM	REASON	SOLUTION
Bad Signal	In the area without or bad signal	Go to outdoor and get good signal
	Metal cover on tracker or GPS antenna toward ground	Remove metal and toward to sky
Can not Power ON	Low battery	Connect to power supply and charge the battery
	Blown fuse	Change the Power Cable
	Poor contact	Check connection
Can not connect to network	SIM did not install well	Check SIM installation
	Stains on the metal surface of SIM card	Clean the SIM surface
	SIM not available	Contact your operator
	Over the SIM signal area	Move to the area which operator provide service
	Bad network signal	Move to the area has good signal
	SIM no balance	Charge the SIM



## FCC WARNING

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.
- (2) this device must accept any interference received, including interference that may cause undesired operation.

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

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.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm distance between the radiator and your body: Use only the supplied antenna.