GT-203E, 4G & 2G/ Full GNSS Compact Sensitive Tracker with APP & Web Access.

RoHS Compliant



Overview

GT-203E is a very sensitive GNSS online tracker with 4G LTE and 2G GSM/GPRS/EDGE fallback communication support. Married concurrent tracking of all civil navigation systems (GPS, GLONASS, GALILEO, BEIDOU) with AGNSS, GT-203E is not only sensitive but also accurate in even deep urban canyon environment.

The widespread 4G/2G coverage allows this portable compact device to be used almost anywhere, anytime. The sensitive design allows it to be easily used in even covert locations with difficult cellular or GNSS reception.

The external power supply design allows it to be connected to batteries of different capacities depending on the real demand. The built-in 3-axis G-sensor detects various movements and saves power accordingly to further reduce the power consumption of the tracker.

APP (Android & iOS) & WEB support makes the tracking easy and simple. Cloud notification allows you to real-time handle any emergencies at your smartphone.

Applications

- Fleet tracking & management
- Personal, detective tracking
- Asset security & tracking

Features+

- Airoha& 12nm AG3335 GNSS chip adopted
  - Concurrent tracking of GPS/ GLONASS/ GALILEO/ BEIDOU/ QZSS/ SBAS satellites w/ AGNSS support
  - Powerful while low power consumption
- Thales/Cinterion high performance, low power 4G/2G communication module adopted.
- Bosch tri-axis G-Sensor embedded
- Recovery from communication dead-zone – auto-retransmit after passing null-cellular signal zone.
  - Up to 16 thousands report buffer capacity, or
  - 270 hours non-stop report at interval of 1 minute, or
  - 11+ days, day and night non-stop report at interval of 1 minute
- Peace of mind;
  - Move call – call you automatically as the tracker (or your asset) moves. One just ignores the reminding call from the tracker. The tracker hangs up the call automatically. Asset status is under your control.
  - Move alert – send your smartphone an alert via cloud notification as the tracker moves. This function is useful for data-only SIM plan.
- Flexible external power supply via RCY connector
  - Battery of different capacities could be used.
  - Adapter cable from vehicle battery available
- Smart power saving as there is no moves
- Low battery alert# (1 day*h working remains)
- Long standby time# – 120 days (5 days*h working remains)
- Long working time# – 20 days*h
- OTA (Over The Air) configuration-parameter setting
  - Report interval/distance
  - Sleep/Hibernate power saving mode
  - Geo-Fence: IN, OUT or IN and OUT
  - SMS alert on events

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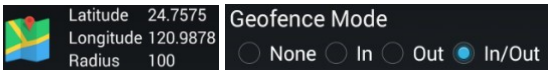
- Move call
- Etc.

- OTA firmware upgrade (for maintenance use)
- APP support





- Easy geo-fence setting – click & drag on map



- Powerful history browsing/playback function
- 1 month history data stored in the server

[&]: Airoha is a subsidiary of MTK

[+]: MOQ-based feature customization is welcome.

[#]: 12000mAh new battery; hibernate mode; 25℃

*: Continuous working 2 hours a day, one report/minute

[h]:Hibernate mode

Technical Specifications

Cellular Characteristic Data

Frequency bands LTE Cat 1	4G & 2G: 700 (B28), 800 (B20), 850 (B5), 900 (B8), 1800 (B3), 1900 (B2), 2100 (B1, B4, B66), 2600 (B7), TD2300 (B40), TD2500 (B41), TD2600 (B38)
GSM/GPRS/EDGE	900/1800 & 850/1900 MHz
LTE data rate - 3GPP Release 13	DL 10.2Mbps, UL 5.2Mbps (max.) UE CAT 1 supported

GNSS Receiver Data

Receiver Type	AG3335 - 135 channels, L1: 1602 MHz: GLONASS:L1OF 1575.42 MHz GPS & QZSS: L1 C/A SBAS: L1 QZSS L1 SAIF Galileo: E1 (E1B+E1C) 1561.098 MHz BEIDOU B1I
Horizontal Position Accuracy	< 2.5m (Autonomous) (50% 24hr static, -130dBm)
Velocity Accuracy	<0.05 m/s (speed, autonomous) (50%@30m/s)
Time To First Fix Hot start Warm start Cold start	Autonomous (50% -130dBm) <1sec <24sec <24sec
Sensitivity (Autonomous)	Acquisition: -148dBm Tracking: -165dBm
Max. Update Rate	10Hz
Max. Altitude	<18,000 m
Max. Velocity	<1,852 km/hr.
Protocol Support	NMEA V4.10, 9600 bps (default) GGA, GSA, GSV, RMC, VTG
SBAS Support	WAAS, EGNOS, MSAS,GAGAN
Dynamics	<4g

Electrical Data

Power supply	3.5~4.2 VDC via RCY port only
Power consumption	0.2~190mA depending on usage

Environmental Data

Operating temperature	-20 ~ 70℃
Storage temperature	-20 ~ 35℃ (long-term storage)

Mechanical Data – 65 x 45 x 14 (mm)

Weight – 41.5g

I/O Interfaces

Power port	JST RCY connector - SYR-02T
Console port	2.5mm phone jack, female - GND, TX: Console TX

	RX: Console RX
Button	* Power status indication (1 tap) * GNSS fix indication (2 taps)
LED (**Blue**)	Normally OFF w/o button tapping * LED ON 0.5s as button tapped GNSS fix indication period: 10s * GNSS unfixed: always ON * GNSS fixed: 0.5s ON 1.5s OFF
SIM connector	Push-push micro-SIM card holder

Optional Accessories

✧ 3.2Ah Li-ion battery



✧ 5.5Ah Li-ion battery



✧ Battery Chargers



✧ Adapter cable (12/24V, 35V tolerable) -
Directly from vehicle power to tracker



Server Support

1. Work with your own server
   - ■ NDA & sample purchase-based

protocol available.

2. Work with Navisys server

✧ Web access from a PC/NB, tablet, smartphone



✧ APP access from a smartphone

Ordering Information

GT-203E	Default model

*This document is subject to change without notice.

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