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

RoHS Compliant



Overview

GT-203C 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) with AGNSS, GT-203C 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 small and 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 extend the standby time of the tracker.

Communication encryption with AES256, it is a highly secure tracking device.

Applications

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

Features+

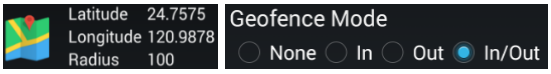
- Powered by u-blox M10 chip; Concurrent tracking of multi-satellite navigation systems
  - GPS/GALILEO/GLONASS/BEIDOU/QZSS
  - SBAS (WAAS, EGNOS, MSAS, GAGAN)
- Augmentation support:
  - SBAS (WAAS, EGNOS, MSAS, GAGAN),
- Telit Cinterion high performance, low power 4G/2G communication module adopted.
- 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 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)

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- 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
  - Move call
  - Etc.
- OTA firmware upgrade (for maintenance use)
- APP support

Available on the App Store ANDROID APP ON Google play

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



✧ Powerful history browsing/playback function

✧ 1 month history data stored in the server

+: 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	u-blox M10 engine GPS, SBAS: L1 C/A: 1575.42MHz, QZSS: L1 C/A/S: 1575.42MHz Galileo: E1 B/C: 1575.42MHz, GLONASS: L1OF:1598.0625~1605.375MHz SBAS:WAAS, EGNOS, MSAS, GAGAN
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
Augmentation Support	SBAS(WAAS, EGNOS, MSAS, GAGAN) QZSS(L1S SLAS)
RTCM	Supported in the future
Dynamics	<4g

+: According to GNSS IC spec

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
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-203C	Ciphering model

*This document is subject to change without notice.

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