GT-202, Cat M/GNSS AGPS Compact Sensitive Tracker with APP & Web Access.

RoHS Compliant



Overview

GT-202 is a very sensitive GNSS online tracker with Cat M communication support. Married with AGPS support, this SiRFstarV (SS5) tracker exhibits unprecedented position fix performance. It works perfectly in GPS/GLONASS difficult environments such as inside glove box, trunk, bumper etc.

The portable compact design allows it to be used almost anywhere with just limited GNSS/Cat M signal reception.

The external power supply design allows it to connect to battery of different capacities based on the real demand. The built-in 3-axis G-sensor detects various movements and further reduces the power consumption of the tracker.

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

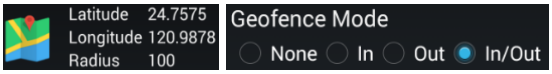
Applications

- Personal, detective tracking
- Fleet/group vehicle tracking & management
- Asset security & tracking

Features+

- SiRFStarV GPS&GLONASS w/ AGPS support
- Thales high performance Cat M module
- Bosch tri-axis G-Sensor
- Recovery from communication dead-zone – auto-retransmit after passing null-cellular signal zone.
  - Up to 16 thousands report buffer capacity, or
  - Buffer capacity of 266 hours or 11 days at continuous report interval of 1 min
- 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* working remains)
- Long standby time# – 360 days (5 days* working remains)
- Long working time#
  - 180 hours or 7.5 days, non-stop report at interval of 15 seconds, or
  - 82 days, if works 2 hours a day non-stop report at interval of 15 seconds
- OTA (Over The Air) configuration-parameter setting
  - Report interval/distance
  - Sleep/Hibernate power saving mode
  - Geo-Fence: IN, OUT or IN and OUT
  - Move alert
  - 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.

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

*: Continuous working 2 hours a day, 4 report/minute

Technical Specifications

Cellular Characteristic Data

Module	Thales/Cinterion EXS62-W
Frequency bands Cat M1	Default 1800 (Bd3) enabled 700 (Bd12, Bd13, Bd28, Bd85), 800 (Bd18, Bd19, Bd20, Bd26, Bd27), 850(Bd5), 900 (Bd8), AWS-3 (Bd66), AWS-1 (Bd4), 1800 (Bd3), 1900 (Bd2,Bd25), 2100 (Bd1)
Cat NB1/2	600 (Bd71), 700 (Bd12, Bd13, Bd28, Bd85), 800 (Bd18, Bd19, Bd20, Bd26), 850 (Bd5), 900 (Bd8), AWS-3 (Bd66), AWS-1 (Bd4), 1800 (Bd3), 1900(Bd2, Bd25), 2100 (Bd1)
Data rate - 3GPP Release 14	LTE Cat M1 (HD-FDD) DL: max. 300kbps, UL: max. 1.1Mbps LTE Cat NB1 (HD-FDD) DL: max. 27kbps, UL: max. 63kbps LTE Cat NB2 (HD-FDD) DL: max. 124kbps, UL: max. 158kbps

GNSS (GPS & GLONASS) Receiver Data

Receiver Type	SiRFstarV - 52 channels, L1 frequency, C/A code GPS & QZSS:1575.42MHz GLONASS: 1598.0625~1605.375MHz
Horizontal Position Accuracy	< 2.5m (Autonomous) (50% 24hr static, -130dBm)
Velocity Accuracy	<0.01 m/s (speed, autonomous)
	<0.01° (heading) (50%@30m/s)
Time To First Fix Hot start Warm start Cold start	Autonomous (50% -130dBm) <1sec <30sec <35sec
Sensitivity (Autonomous)	Acquisition: -146dBm (GPS) Tracking: -165dBm (GPS), -163dBm(GLONASS) Navigation: -160dBm (GPS), -159dBm(GLONASS) (-142dBm 28dB-Hz with 4dB noise figure)
Max. Update Rate	5Hz
Max. Altitude	<18,000 m
Max. Velocity	<1,852 km/hr.
Protocol Support	NMEA V4.00, 115200 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)



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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) * GPS fix indication (2 taps)
LED (**Blue**)	Normally OFF w/o button tapping * LED ON 0.5s as button tapped GPS fix indication period: 10s * GPS unfixed: always ON * GPS 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



✧ 12Ah 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

*This document is subject to change without notice.

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