GV50LTA

LTE CAT1 Vehicle Tracking Device

- **Dual Band LTE CAT1 B4&B13**
- **Small Size Allowing Covert Installation**
- **Cost Effective Solution for Basic Tracking**

The GV50LTA is a LTE CAT1 micro GPS tracker designed for a wide variety of vehicle tracking applications. It has multiple I/O interfaces that can be used for monitoring or controlling external devices. Its built-in GPS receiver has superior sensitivity and fast time to first fix. Its dual band LTE CAT1 allows the GV50LTA location to be monitored in real time or periodically tracked by a backend server and mobile devices. System integration is straightforward as complete documentation is provided for the full featured @Track protocol. The @Track protocol supports a wide variety of reports including emergency, geo-fence boundary crossings, external power supply monitoring and scheduled GPS position.

Advantages

- Micro-sized and ultra-thin device allowing easier and more covert installation
- Internal u-blox GPS chipset
- Dual band LTE CAT1 B4&B13
- Embedded full featured @Track protocol
- Multiple I/O interfaces for monitoring and controlling
- Internal 3-axis accelerometer for motion detection
- Internal LTE antenna
- Internal GPS antenna
- FCC/Verizon certified

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📶 LTE Specifications

Operation Band	LTE Band 4 LTE Band 13
Max Data Rate	Download: 10 Mbps Upload: 5 Mbps
Max Out RF Power	21 ~ 25 dBm
Minimum Out RF Power	< -40 dBm
Dynamic Input Range	-25 ~ -110 dBm
Receiving Sensitivity	Band 13, 10 MHz: -93.3 dBm Band 4, 10 MHz: -96.3 dBm
Max Frequency Error	±0.1 ppm

📶 General Specifications

Dimensions	87mm*55mm*12.5mm
Weight	About 50g
Backup Battery	Li-Polymer 190 mAh
Operating Voltage	DC 8V to 32V
Operating Temperature	-30°C ~ +80°C -40°C ~ +85°C for storage

📶 GPS Specifications

GPS Chipset	u-blox All-In-One GPS receiver
Sensitivity	Autonomous: -147 dBm Hot start: -156 dBm Reacquisition: -160 dBm Tracking: -162 dBm
Position Accuracy (CEP)	Autonomous: < 2.5m SBAS: 2.0m
TTFF (Open Sky)	Cold start: 27s average Warm start: 27s average Hot start: < 1s average

📶 Air Interface Protocol

Transmit Protocol	TCP, UDP, SMS
Scheduled Timing Report	Report position and status at preset intervals
Geo-fence	Geo-fence alarm, support up to 20 circular and 20 polygon geo-fence regions
Power On Report	Report when the device is powered on
Special Alarm	Special alarm based on the digital inputs
Remote Control	OTA control of digital outputs

📶 Interfaces

Digital Inputs	One positive trigger for ignition detection
Digital Outputs	One open drain, 150 mA max drive current
Digital Inputs/Outputs	One negative trigger input for normal use or One open drain output 150 mA max drive current
Communication Port	One TTL UART port for upgrading and debugging
LTE Antenna	Internal antenna
GPS Antenna	Internal patch antenna
Indicator LED	CEL and GPS