GL530

Long Standby Time Mini Tracking Device

- **Extended Battery Life at Low Temperature**
- **Low Power Consumption, Long Standby Time**
- **Rapid and Covert Installation - No Wiring, No External Antennas**
- **Intelligent Adjustment of Reporting Frequency**

GL530 is a GPS locator featuring long standby time. It is powered by user replaceable CR123A lithium battery pack with a built-in battery toggle switch. Configuration allows it to wake up on a preset schedule to check if it needs to shift from dormant to active status and/or send update of its current location, and then return to a dormant state. With built-in light sensor, GL530 can monitor removals of the device itself and send alerts. The integrated @Track interface protocol allows the GL530 to communicate with a customer mobile phone via SMS or a backend server via GPRS to transfer reports like GPS position. System integrators can easily incorporate the GL530 into existing tracking systems based on this full featured protocol.

Advantages

- Powered by three user replaceable lithium batteries (CR123A)
- Quad band GSM/GPRS 850/900/1800/1900 MHz
- Embedded @Track protocol
- Built-in light sensor supporting removal alert
- Internal GSM antenna
- Internal GPS antenna

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GSM Specifications

Frequency	Quad band GSM/GPRS 850/900/1800/1900 MHz Compliant to GSM phase 2/2+ -Class 5 (0.8W @ 900 MHz) -Class 1 (1W @ 1800 MHz)
GPRS	GPRS multi-slot class 8 GPRS mobile station class B
RMS Phase Error	5 deg
Max Out RF Power	GSM900/850: 29.0±2 dBm PCS/DCS: 30.0±2 dBm
Dynamic Input Range	-15 ~ -108 dBm
Receiver Sensitivity	Class II RBER 2% (-107 dBm)
Stability of Frequency	< 2.5 ppm
Max Frequency Error	±0.1 ppm

General Specifications

Dimensions	106mm*43mm*22.5mm
Weight	100g (standard version) 112g (magnetic mount case version)
Backup Battery	Three CR123A lithium batteries 1500 mAh
Standby Time	Standby current: < 5 uA GPS off, one report per day: 1800 days GPS on, one report per day: 1300 days
Operating Temperature	-20°C ~ +60°C
Optional Magnetic Mount Case	Use three mounting magnets to fix the device (optional magnetic mount case version)

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

Command Set	@Track protocol command
Transmit Protocol	TCP, UDP, SMS
Working Mode	Frequency modulation power save mode, for long standby time
	Continuous mode, for emergency tracking
Scheduled Timing Report	Report position and status according to preset time schedules
Geo-fence	Support up to 5 internal geo-fence regions
Low Power Alarm	Alarm when internal battery is low
Wakeup Report	Report when the device wakes up
Reporting Frequency Adjustment	Intelligent adjustment of reporting frequency for long standby time

Interfaces

GSM Antenna	Internal only
GPS Antenna	Internal only
Internal Indicator LED	GSM, GPS
Serial Port	Micro USB

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