

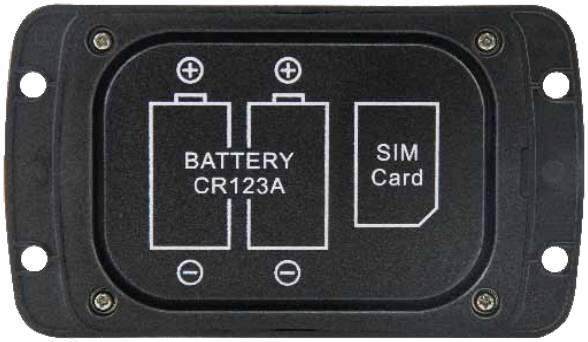
GL505

Waterproof Hibernating Asset Tracking Device



- **Waterproof, IPX7 Compliant**
- **Long Standby Time, More than 1000 Days**
- **Rapid and Covert Installation - No Wiring, No External Antennas**
- **User Serviceable CR123A Batteries**

The GL505 is a powerful waterproof GPS tracker designed for fixed asset tracking applications. It is powered by two user replaceable CR123A lithium batteries. 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, then returning to a dormant state. Optimally configured it will operate autonomously for 1000 days. Its built in 3-axis accelerometer allows the GL505 to detect asset movement and transmit an alert message. The integrated @Track interface protocol allows the GL505 to communicate with a customer mobile phone or a back end server via GPRS/SMS and transfer reports of GPS position, etc. System integrators can easily incorporate the GL505 into existing tracking systems based on this full-featured protocol.



Advantages

- Waterproof, IPX7 compliant
- Works with CR123A Lithium batteries
- Powered by two user replaceable lithium batteries (CR123A)
- Internal u-blox GPS chipset
- Quad band GSM/GPRS 850/900/1800/1900 MHz
- Embedded @Track protocol
- Internal 3-axis accelerometer for motion detection
- Internal GSM antenna
- Internal GPS antenna

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GSM Specifications

Frequency	Quad band : 850/900/1800/1900 MHz Compliant to GSM phase 2/2+ -Class 4 (2W @ 850/900 MHz) -Class 1 (1W @ 1800/1900 MHz)
GPRS	GPRS multi-slot class 10 GPRS mobile station class B
RMS Phase Error	5 deg
Max Out RF Power	33.0 dBm ±2 dBm
Dynamic Input Range	-15 ~ -108 dBm
Receiver Sensitivity	Class II RBER 2% (-107 dBm)
Stability Of Frequency	< 2.5ppm
Max Frequency Error	±0.1 ppm

GPS Specifications

GPS Chipset	u-blox All-In-One GPS receiver
Sensitivity	Autonomous : -148 dBm Hot start : -160 dBm Tracking : -162 dBm
Position Accuracy	Autonomous : < 2.5m SBAS : 2.0m
TTFF (Open Sky)	Cold start : 30s average Warm start : < 30s Hot start : < 1s

Interfaces

GSM Antenna	Internal only
GPS Antenna	Internal only
Indicator LED	Internal GSM, GPS and power LED
Serial Port	Internal 8 pin connector for upgrading or debugging

General Specifications

Dimensions	118mm * 69.5mm * 26.8mm
Weight	105g (without batteries)
Batteries	Two CR123A Lithium-batteries 1500 mAh
Standby Time	Standby current : < 10uA SMS count : > 1000 SMS Standby days : 1000 days (Report once/day)
Waterproof	IPX7 compliant
Operating Temperature	-20°C ~ +60°C

Air Interface Protocol

Command Set	@Track protocol command Simple SMS command
Transmit Protocol	TCP, UDP, SMS
Working Mode	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	Supports up to 5 internal geo-fence regions
Low Power Alarm	Alarm sent when internal battery power is low
Temperature Alarm	Alarm according to the pre-set temperature range
Motion Detection	Motion alarm trigger and optional change of working mode
Wakeup Report	Report when the device wakes up

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