








GL300

Advanced Asset Tracker

-  **Vibration Feedback Confirming Successful Button Operation**
-  **Water Resistant**
-  **Full Power Management**
-  **Thumb Sized Button Allowing Easier Emergency Alert or Instant Geo-fence Setting**
-  **400 Hours Standby Time, Up to 200 Days Standby Time With External Battery Accessory**

The water resistant GL300 is a powerful GPS locator designed for lone worker, vehicle, pet and asset tracking applications. The thumb sized button makes this device ideal for applications requiring rapid notification of emergency alert or regular setting of geo-fences based on current location. Its built in GPS receiver has superior sensitivity and fast time to first fix. Its quad band GPRS/GSM subsystem supports 850/900/1800/1900 MHz allowing the GL300's location to be monitored in real time or periodically tracked by a backend server and mobile devices. Its built in 3-axis accelerometer allows motion detection and extended battery life through sophisticated power management algorithms. 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, low battery or scheduled GPS position and many other useful functions.



Advantages

- Water resistant
- Quad band GSM/GPRS 850/900/1800/1900 MHz
- Internal u-blox GPS chipset
- Internal GSM/GPS antennas
- Thumb sized button allowing easier emergency alert or instant geo-fence setting
- Low power consumption, long standby time with internal battery
- Internal 3-axis accelerometer for conserving power and motion detection
- Full power management, can be connected to external DC power or battery

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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 12 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	< 2.5 ppm
Max Frequency Error	±0.1 ppm

GPS Specifications

GPS Chipset	u-blox All-In-One GPS receiver
Sensitivity	Autonomous : -148 dBm Hot start : -157 dBm Tracking : -162 dBm
Position Accuracy	Autonomous : < 2.5m SBAS : 2.0m
TTF (Open Sky)	Cold start : 27s average Warm start : < 27s Hot start : < 1s Aided start : < 3s

General Specifications

Dimensions	68.5mm * 38.5mm * 23.5mm
Weight	60g
Battery	Li-Polymer 1300 mAh, 3.7V
Standby Time	Without reporting : 400 Hours 5 minutes reporting : 140 Hours 10 minutes reporting : 180 Hours
Water Resistance	IPX5 compliant
Charging Voltage	5V DC
External Battery Voltage	3.5V to 4.5V DC
Operating Temperature	-20°C ~ +55°C

Interfaces

Digital Inputs	Two digital inputs One positive trigger for ignition detection One negative trigger input for normal use
Power Button	Power on and power off, can be disabled by the air interface protocol
Function Button with Vibration Feedback	Emergency alert or instant geo-fence
GSM/GPS Antennas	Internal only
Indicator LED	GSM, GPS and battery status
Mini USB Interface	For external power and configuration

Air Interface Protocol

Transmit Protocol	TCP, UDP, SMS
Scheduled Report	Report position and status according to preset time schedules
Geo-fence	Supports up to 5 internal geo-fence regions
Power On/Off Report	Report when the device is powered on and off
Low Power Alarm	Alarm when internal battery is low
SOS/Emergency Alarm	SOS alarm when function key is pressed
Special Alarm	Special alarm based on digital input
Motion Detection	Motion alarm based on internal 3-axis accelerometer



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