

Queclink

GL300 Advanced Asset Tracker

- Multiple GNSS Support With u-blox M8 Chipset
- S Vibration Feedback Confirming Successful Button Operation
- Thumb Sized Button Allowing Easier Emergency Alert or Instant Geo-fence Setting
- Water Resistant
- Full Power Management
- **3** 400 Hours Standby Time, Up to 200 Days Standby Time With External Battery Accessory

The water resistant GL300 is a powerful GNSS 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 GNSS receiver supports GPS and GLONASS and 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 extends 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 and scheduled GNSS position.



Advantages

- Water resistant
- Quad band GSM/GPRS 850/900/1800/1900 MHz
- Embedded full featured @Track protocol
- Internal GSM/GNSS 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 power conservation and motion detection
- · Full power management, can be connected to external DC power or battery
- FCC certified

GL300

Advanced Asset Tracker

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	GSM850/GSM900: 33.0±2 dBm DCS/PCS: 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	
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General Specifications

68.5mm*38.5mm*23.5mm		
60g		
Li-Polymer 1300 mAh		
Without reporting: 400 hours 5 minutes reporting: 140 hours 10 minutes reporting: 180 hours		
IPX5 compliant		
5V DC		
3.5V to 4.5V DC		
-20°C ~ +55°C		
	60g Li-Polymer 1300 mAh Without reporting: 400 hours 5 minutes reporting: 140 hours 10 minutes reporting: 180 hours IPX5 compliant 5V DC 3.5V to 4.5V DC	60g Li-Polymer 1300 mAh Without reporting: 400 hours 5 minutes reporting: 140 hours 10 minutes reporting: 180 hours IPX5 compliant 5V DC 3.5V to 4.5V DC

GNSS Performance (using GPS and GLONASS)

GNSS Receiver Type	72-channel u-blox M8 engine
Sensitivity	Autonomous: -147 dBm Hot start: -155 dBm Tracking & navigation: -162 dBm Reacquisition: -160 dBm
Position Accuracy	Autonomous: 2.5m CEP SBAS: 2.0m CEP
TTFF (Open Sky)	Cold start: 30s average Warm start: 28s average Hot start: 1s average

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/GNSS Antennas	Internal only
Indicator LED	GSM, GPS and battery status
Mini USB Interface	For external power and configuration

Air Interface Protocol

TCP, UDP, SMS	
Report position and status according to preset time schedules	
Support up to 5 internal geo-fence regions	
Report when the device is powered on or off	
Alarm when battery is low	
SOS alarm when function key is pressed	
Special alarm based on digital input	
Motion alarm based on internal 3-axis accelerometer	
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