



GAT-Pro Data Sheet



Hibernating Asset Tracking Device

The GAT-Pro is a powerful GPS tracker designed for fixed asset tracking applications. It is powered by user replaceable CR123A lithium battery pack. 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. Optimally configured, it will operate autonomously for 1800 days. Its built-in 3-axis accelerometer allows the GAT-Pro to detect asset movement and transmit an alert message. The integrated @Track interface protocol allows the GAT-Pro to communicate with a customer mobile phone or a backend server via GPRS/SMS and transfer reports like GPS position. System integrators can easily incorporate the GAT-Pro into existing tracking systems based on this full featured protocol.

Highlights

- Long Standby Time, About 1800 Days
- Extended Battery Life at Low Temperatures
- Rapid and Covert Installation - No Wiring, No External Antennas
- Optional Voice Monitoring
- User Serviceable CR123A Battery Pack
- Support Removal Alert

Advantages

- Low power consumption, long standby time for about 1800 days
- Powered by three user replaceable lithium batteries (CR123A)
- Internal u-blox 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
- Internal microphone (optional)
- CE/FCC certified

GAT-Pro

Asset Tracking Device



GSM Specification

Frequency	Quad band: 850/900/1800/1900 MHz Compliant to GSM phase 2/2+ -Class 5 (0.8W @ 850/900 MHz) -Class 1 (1W @ 1800/1900 MHz)
GPRS	GPRS multi-slot class 8 GPRS mobile station class B
RMS Phase Error	5 deg
Max Out RF Power	GSM850/GSM900: 29.0±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

GPS Specification

GPS Chipset	50-channel 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
TTF (Open Sky)	Cold start: 27s average Warm start: 27s average Hot start: 1s average

Interfaces

Audio	Internal microphone
GSM Antenna	Internal only
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Internal Indicator LED	GSM, GPS and battery status
Serial Port	Internal 8 pin connector for upgrading or debugging

General Specification

Dimensions	80mm*58mm*26.8mm
Weight	55g (without batteries)
Batteries	Three CR123A lithium batteries 1500 mAh
Standby Time	Standby current: < 10 uA SMS count: 1950 SMS SMS reporting standby: One SMS report per day: 1950 days TCP reporting standby: One report per day: 1800 days Four reports per day: 510 days Five minutes reporting: 11 days
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	Support up to 5 internal geo-fence regions
Low Power Alarm	Alarm when internal battery is low
Motion Detection	Motion alarm trigger and optional change of working mode
Wakeup Report	Report when the device wakes up
Listening Mode	Incoming/outgoing call with white list support



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