



Features

- Compact size, easy to hide
- Transmitting tracker ID via 433 MHz RF beacon when no 2G/3G coverage
- Dual processor, multi-thread system
- Fast and stable application performance
- Modular architecture and multiple watchdogs
- AGPS support to improve GPS fixing time
- Activated by motion/external power/timer
- Over the air (OTA) firmware/configuration upload
- Jamming, antenna cut, power lost and low battery alerts
- Notifications for enter/leave geo-fenced areas

Specifications

Mechanical and Environmental		
Dimension (L x W x H)	90 x 35 x 17 mm (±2mm, board size)	
Weight	36.6 g	
Case Material	Heat shrink tube	
Operation Temperature	-20°C ~ +60°C (board temperature)	
Storage Temperature	-40°C ~ +85°C (board temperature)	
Electrical		
Battery	Battery Cell	1000 mAh prismatic Li-Ion
	Operation Temperature	-20°C ~ +60°C
	Storage Condition	-20°C ~ +35°C, low humidity and no corrosive gas
	Capacity	1,000 mAh
Power Supply Input	5 Vdc	
Power Consumption	Transmit	150 mAh
	Stand-by	70 mAh

IO Interface and Other		
Slide Switch	Power on/off	
2-pin PCB Header Connector	Battery, charging	
Panic Input	Active low	
SIM Slot	Full size SIM	
Mini USB	USB 2.0 high speed compatible slave interface	
Audio Input	Microphone	
UFL Hirose Jack	GPS and GSM/UMTS antennas	
3-Axes Accelerometer	±6G (default)	
Memory Backup	9 MB flash memory	
LED	Amber	GSM
	Green	GPS
	1 st Red	Charging
	Blue	433 MHz module
	2 nd Red	Low battery power
GPS		
Channels	56 Channels	
Time to First Fix	Cold start 30 secs, hot start 1 sec	
Sensitivity	Tracking -161 dBm, navigation -161 dBm, re-acquisition -160 dBm	
Horizontal Position Accuracy	Autonomous 2.5 m, SBAS 2.0 m	
Operation Limits	Altitude 50,000 m, velocity 500 m/s, dynamics ≤ 4 g	
Cellular Communication		
UMTS (WCDMA/FDD)/HSPA	800 / 850 / 900 / 1900 / 2100 MHz HSDPA Cat.8 / HSUPA Cat.6 data rates Downlink: max. 7.2 Mb/s Uplink: max. 5.76 Mb/s	
GSM	850 / 900 / 1800 / 1900 MHz	
GPRS	Class 12 data rates, CS1-CS4 - up to 85.6 kb/s	
EDGE	EDGE Class 12 data rates, MCS1-9 - up to 237 kb/s	



AT-433

GPS Asset Tracker

CSD	Up to 9.6 kb/s, V.110, non-transparent
SMS	PDU / Text mode
Key Features	Embedded TCP/IP, UDP/IP, HTTP/FTP protocols
	Network jamming Detection
	High quality voice support for hands-free operation

Accessories

Standard
Molex PicoBlade™ connector with open wires (charging)
1000 mAh Li-Ion battery
Optional
Push button with open wires

NOT E:

1. Datasheets are updated as needed and as such, specifications are subject to change without notice.
2. All specifications are measured at an ambient temperature of 25°C, humidity<75%, and nominal input voltage.