

# GT500

## Lone Worker and Senior Protection

- ▶ Falling Alarm
- ▶ Super Sensitivity and High Accuracy
- ▶ Quad Band GSM/GPRS
- ▶ Low Power Consumption
- ▶ Embedded Full-Featured @Track Protocol
- ▶ RoHS Compliant
- ▶ WIFI



GT500 is a powerful GSM/GPS/Wifi Tracker for personal tracking. With superior receiving sensitivity, fast TTFF and Quad-Band GSM frequencies 850/900/1800/1900MHz, its location can be monitored in real time or periodically reported by a backend server or other device. Based on the embedded @Track protocol the GT500 can communicate with the backend server through the GPRS/GSM/WIFI network to transfer reports of emergency/SOS, Geo-fence boundary crossings, low battery or scheduled GPS position, Cell ID or Wifi access point Mac address among other advanced features. Users can easily dial preset phone number by using user define button or the SOS button. System Integrators can easily communicate with the GT500 by using the @Track protocol. The Wifi access point Mac address reporting will help of accurate in-door location fix with Wifi access.

### Advantages

- Quad band GSM/GPRS frequencies 850/900/1800/1900MHz
- Built in uBlox GPS chipset with -162dBm tracking sensitivity, -148 dBm autonomous sensitivity for fast TTFF and high accuracy
- Built in MTK WIFI chipset with IEEE 802.11g/b Compliant
- Embedded full-featured @Track protocol
- Low power consumption, long standby time with internal battery
- Built in 3D motion sensor for power saving and motion detection
- Built in GSM/GPS/WIFI antenna

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### GSM Specifications

Frequency	Quad-Band: 850/900/1800/1900MHz Compliant to GSM phase 2/2+ -Class 4 (2W @ 850/900MHz) -Class 1 (1W @ 1800/1900MHz)
GPRS	GPRS multi-slot class 12 GPRS mobile station class B
RMS Phase Error	5 deg
Max Out RF Power	33.0dBm±2dBm
Dynamic Input Range	-15 ~ -102dBm
Receiving Sensitivity	Class II RBER2%(-102dBm)
Stability Of Frequency	< 2.5ppm
Max Frequency Error	± 0.1ppm

### GPS Specifications

GPS Chipset	uBlox All-In-One GPS Receiver Sensitive, Fast and Accurate
Sensitivity	Autonomous: -148dBm Reacquisition: -160dBm Tracking: -162dBm
Position Accuracy	Autonomous: < 2.5m SBAS: 2.0m
TTFF (Open Sky)	Cold start: 30s average Warm start: < 30s Hot start: < 1s

### WIFI Specifications

WIFI Chipset	MTK MAC/BB WLAN Chip
Frequency	2.4G – 2.497GHz
Compatible	IEEE 802.11g/b Compliant

### Interfaces

Power Button	Power on or off device
Volume Button	Two sides buttons to increase/decrease volume
Dial/Reject Button	Dial or Reject incoming call
SOS Button	SOS/Emergence
GEO Button	For GEO Fence function
User Define Button	For User-define function
Mini USB Interface	For external power and configuration
Earphone Interface	For earphone
Indicator LED	GSM , GPS , WIFI and Battery Status



### General Specifications

Dimension	94mm * 48.5mm * 18mm
Weight	90 g
Battery	Li-ion 1000mAh
Standby Time	Without reporting: 250 to 280 Hours 5 minutes reporting: 50 to 60 Hours 10 minutes reporting: 70 to 80 Hours
Charge Voltage	5V DC
Operation Temperature	-20℃~+55℃

### Air Interface Protocol

Transmit Protocol	TCP, UDP, SMS
Scheduled Timing Report	Report Position follow the pre-set fix interval and report interval
Geo-Fence	5 Geo-Fence regions can be defined
Low Power Alarm	Alarm when backup battery is low
Power On Report	Report when the device is powered on
Power Off Report	Report when the device is powered off
Non-Movement Detection	Movement alarm based on built in 3D motion sensor
Fall Detection	Falling alarm based on built in 3D motion sensor

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