



GT500

WiFi/GSM/GPS Safety Phone



- WiFi for Indoor Positioning and Data Transmission
- GPRS and GPS for Outdoor Positioning and Data Transmission
- Instant Geo-fence Setting and Multiple Function Keys
- Man Down Alarm
- Low Power Consumption

The GT500 is a powerful WiFi/GSM/GPS safety phone. It supports indoor location using access point MAC address lookup services such as Google or Skyhook. 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. 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, scheduled GPS position (with cell-ID reporting) and man down alert.

Advantages



- Indoor tracking and positioning through access point MAC address lookup services
- Outdoor tracking and positioning using internal u-blox GPS chipset and GPRS backhaul
- Low power consumption, long standby time with internal battery
- Internal 3-axis accelerometer for power conservation, motion detection and man down alert
- Internal u-blox chipset
- Internal MTK WiFi chipset IEEE 802.11b/g compliant
- Quad band GSM/GPRS 850/900/1800/1900 MHz
- Embedded full featured @Track protocol
- Internal GSM/GPS/WiFi antennas

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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	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

GPS Specifications

GPS Chipset	u-blox All-In-One GPS receiver
Sensitivity	Autonomous: -148 dBm Hot start: -160 dBm Tracking: -162 dBm
Position Accuracy	Autonomous: < 2.5m SBAS: 2.0m
TTFF (Open Sky)	Cold start: 30s average Warm start: < 30s Hot start: < 1s

Interfaces

Power Button	Power on or off device
Volume Button	Two side buttons to increase/decrease volume
Dial/Reject Button	Dial or reject incoming call
SOS Button	SOS/Emergency
Geo Button	For geo-fence function
User Defined Button	For a user-defined function such as dialing, location report, or Google link report
Mini USB Interface	For external power and configuration
Earphone Interface	For earphone
Indicator LED	GSM, GPS, WiFi and battery status

WiFi Specifications

WiFi Chipset	MTK MAC/BB WLAN chip
Frequency	2.4G-2.497 GHz
Standards Support	IEEE 802.11g/b compliant

General Specifications

Dimensions	94mm*48.5mm*18mm
Weight	90g
Battery	Li-ion 1000 mAh
Standby Time	Without reporting: 180 hours 5 minutes reporting: 90 hours (GPRS); 40 hours (WiFi) 10 minutes reporting: 100 hours (GPRS); 50 hours (WiFi)
Charging Voltage	5V DC
Operating Temperature	-20°C ~ +55°C

Air Interface Protocol

Transmit Protocol	TCP, UDP, SMS
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
Power On Report	Report when the device is powered on
Power Off Report	Report when the device is powered off
SOS/Emergency Alarm	SOS alarm when function key is pressed
Motion Detection	Motion alarm based on built-in 3-axis accelerometer
Fall Detection	Man down alarm based on built-in 3-axis accelerometer

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