

R-33 Personal Tracker



Features

- Configurable latitude & longitude format
- Motion sensor built in
- Microphone built-in
- Auto pick-up in-coming calls
- Panic button
- Latest uBlox LEA5S GPS module
- Panic button
- Stop-motion alert or park alert
- Sleep modes for power saving
- Speeding alert
- 10 geo-fenced areas
- Auto pick up in-coming calls
- 3 sets pre-set dial out tel. no.
- Store up to 100K locations
- Location latitude/longitude format: NMEA or WGS84 format (configurable)

Specifications

| Mechanical & Environmental | |
|--|--|
| Unit size | 86 x 57 x 30.7mm (height) |
| Weight | 90 g, 120 g including the battery |
| Housing | Plastic ABS |
| Operational Temperature | -20°C to +60°C (board temperature) |
| Operational Humidity | 0% to 90% (board humidity) |
| Electrical Characteristics | |
| Input Voltage | + 5 Volt (Battery Charge) |
| Power Consumption | |
| Online mode | (GPRS on line + GPS on, GPRS sending every 10 seconds)>100mA (11 hours) (GSM stand by + GPS on) >70mA (16 hours) |
| Standby mode | (GSM stand by + GPS off) >14mA (83hours) |
| Deep Sleep mode | (GSM off+ GPS off + 1 hour checking) (86 hours) |
| Battery Power | Li-ion -1100 mA |
| GPS Specifications Ublox-LEA-5S chipset | |
| Receiver Type | |
| 50 Channels | |
| GPS L1 frequency C/A Code | |
| GALILEO Open Service L1 frequency | |
| Time-To-First-Fix | |
| Cold Start (Autonomous) 29 s | |
| Warm Start (Autonomous) 29 s | |
| Hot Start (Autonomous) <1 s | |
| Sensitivity | |
| Tracking & Navigation -160 dBm | |
| Re-acquisition -160 dBm | |

| | |
|---|---|
| Cold Start (Autonomous) -144 dBm | |
| Horizontal Position Accuracy | Autonomous < 2.5 m SBAS < 2.0 m |
| Velocity Accuracy | 0.1 m/s |
| Heading Accuracy | 0.5 degrees |
| Dynamics | ≤ 4 g |
| Operational Limits | Velocity 515 m/s (1000 knots) |
| GSM/GPRS Specifications | |
| Electrical Characteristics | |
| Frequency bands | <ul style="list-style-type: none"> ▪ Quad-band: GSM 850, EGSM 900, DCS 1800, PCS 1900. The module can search the 4 frequency bands automatically. The frequency bands also can be set by AT command. ▪ Compliant to GSM Phase 2/2+ |
| GSM class | Small MS |
| Transmit power | <ul style="list-style-type: none"> ▪ Class 4 (2W) at EGSM 900 ▪ Class 1 (1W) at DCS1800 and PCS 1900 |
| GPRS connectivity | <ul style="list-style-type: none"> ▪ GPRS multi-slot class 8 (optional) ▪ GPRS multi-slot class 10 (default) ▪ GPRS mobile station class B |
| DATA GPRS CSD | <ul style="list-style-type: none"> ▪ GPRS data downlink transfer: max. 85.6 kbps ▪ GPRS data uplink transfer: max. 42.8 kbps ▪ Coding scheme: CS-1, CS-2, CS-3 and CS-4, the module supports the protocols PAP (Password Authentication Protocol) usually used for PPP connections. ▪ The module integrates the TCP/IP protocol. ▪ Support Packet Switched Broadcast Control Channel (PBCCH) ▪ CSD transmission rates: 2.4, 4.8, 9.6, 14.4 kbps, non-transparent ▪ Unstructured Supplementary Services Data (USSD) support |
| SMS | <ul style="list-style-type: none"> ▪ MT, MO, CB, Text and PDU mode ▪ SMS storage: SIM card |
| SIM interface | Supports SIM card: 1.8V ,3V |
| Audio features | <p>Speech codec modes:</p> <ul style="list-style-type: none"> ▪ Half Rate (ETS 06.20) ▪ Full Rate (ETS 06.10) ▪ Enhanced Full Rate (ETS 06.50 / 06.60 / 06.80) ▪ Echo suppression |

Ordering Information