

R-35 Asset/Personal/Vehicle Tracker



Features

- Up to 5,000 location / activation messages can be saved (automatic)
- Built-in motion sensor
- Timer backup battery will last up to 5+ years without battery or external power connected
- 18 Pin mini multi I/O connector
- Highly accurate uBlox LEA5S GPS module
- Stand-by time up to 3 yrs (deep sleep mode)
- Stop-motion or movement alert/buzzer
- Location reports at particular date/day/times
- External battery/solar panel interface
- Panic button and panic input
- 1 digital input, 1 analog input / digital output (configurable)
- Built-in speaker & microphone
- Optional waterproof box and I/O cable set

Specifications

Mechanical & Environmental	
Dimensions (L x W x H)	90.4 x 38.4 x 15.1 mm (18.25 max)
Weight	58.2 g
Operating Temperature	25 ~ + 70° C (board temperature)
Storage temperature	-40° C to +80° C
Material	Plastic (Waterproof if required)
Buttons	1 On/Off switch / 1 Motion switch / 1 Panic
I/O	1 Multi I/O connector (18 pin + locking pins)
Electrical Characteristics	
Input Voltage	+ 5 Volt DC regulated (USB port power)
Power Consumption	Depending on operating mode - between 10 hours and 3 years when using 800 mA battery*
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)
Power Use	
Battery	960mA/ 3.7 volt
GSM/GPRS Specifications: SIM340DZ chipset	
Electrical Characteristics	
Frequency bands	<ul style="list-style-type: none"> ▪ SIM340DZ Quad-band: GSM 850, EGSM 900, DCS 1800, PCS 1900. The SIM340DZ 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 ▪ SIM340DZ supports the protocols PAP (Password Authentication Protocol) usually used for PPP connections. ▪ The SIM340DZ 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