APLICOM R1

Low cost vehicle security & tracking device

Aplicom's R1 device with integrated GPS and GSM antennas is quick and cost efficient to install. Its easy to set-up internal software enables fast time to market for vehicle tracking applications. The buttons on the device provide easy status messaging without wiring needs and digital inputs and output allow further actions. R1's advanced power management, geofencing and battery back-up are of benefit in diverse applications.



R1 IS A READY TO USE TRACKING UNIT suitable for a multitude of different applications. The unit offers car security, electronic log book and a standard real-time vehicle tracking. The inbuilt, large, 25mm patch antenna guarantees a good GPS reception and the efficient quad band GSM antenna provides a global coverage. Due to the internal antennas economical and, if needed, also covert installation is possible. As there are no visible antennas the unauthorised use of the vehicle, due to exposed tracking unit, is made extremely difficult. Of the 3 buttons on the unit, one can be used; for example, as an alarm button.

FOR CAR SAFETY USE the internal back-up battery allows continued operation and alarming when main input power is removed or cables cut. The inbuilt movement sensor gives a wakeup when the device is moved and ignition is off (tow detection). With the vehicle immobiliser the vehicle can be stopped at a safe location.

THE GEOFENCE FUNCTION allows the definition of prohibited areas, locations with status triggers, alarm zones, log book activities, work force management control or exact kilometers and time for charging customers of mobile workforce. Once the geofence is established, the unit automatically informs about entering or leaving a defined area.

In locations where the network is missing, the R1 saves the data in the non-volatile memory. This memory can store up to 5000 records. When the network is available again, the stored data is sent with the wanted method.

THE UNIT CAN ALSO BE USED AS AN ELECTRONIC LOG BOOK. The three buttons on the unit, with LED's showing the active button, provide a good tool for working status monitoring. The unpleasant paper work can thus be decreased significantly. Most demanding mobile workforce tasks can be managed by combining geofence features with the status buttons.



Aplicom Oy | Sinikalliontie 12 | FI-02630 Espoo, FINLAND Tel: +358 10 841 9400 | Fax: + 358 9 6831 1350 | info@aplicom.fi

Technical data Aplicom R1

FEATURES

- Compact unit, all in one package Quad band GPRS
- Sensitive GPS
- GPS odometer .
- Internal antennas, external GPS antenna option 3 button user interface with status LED's Low power consumption and smart power management

COMMUNICATIONS

Open protocol for server connectivity: GPRS, TCP/IP. Aplicom D-protocol, full IMEI identification.

FACTORY INSTALLED SOFTWARE

RTC which is synchronised to GPS time when available Configurable through USB interface and with SMS OTAP SW and configuration • Remote trouble shooting .

- Watchdog function .
- Wide temperature range

The standard SW includes the functions required in normal tracking applications. It is stable and can be remotely updated (OTA).

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Smart event based reporting logic is used to drive down communication costs and excess amounts of data to the server. Configuring the device to send only the essential, important information helps to keep the system overhead low.

Events that can trigger a report or other actions: • IGN on/off (optional)

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- Timed wake-up Movement wake-up
- . Position (time interval, distance travelled, heading
- change) Geofence in & out

- . Battery low, OK status .
- Button pressing Trip counters .
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- Start moving, stop moving Input and output change External power supply available

Specifications subject to change without notice. October 2010. Code: M100425

GPRS platform GPS	Quad-Band GPRS multislot Class 12 Atheros Communications	Operating conditions	- 30°C+65°C - 40°C+70°C storage Humidity +95 % max
	- accuracy 1,0m (CEP50) - reacquisition 100ms - cold start 36s	Housing / material	Plastic mould and button membrane
Movement sensor	Wake-up, alarm and power management	User interfaces	3 button interface with 3 LED's indicating status, SIM card slot
Power supply	830V (+12V, 60mA nominal)	Interfaces	- Input 1 +12+24V (can be used
Battery (internal)	380mAh		for IGN control) - Input 2 +5V (24V option), pull down
Power switch	IGN, movement detection, SW controlled power management, button pressing		active -1 x Output (open drain) - Internal GPS and GSM antenna (external GPS antenna option)
Dimensions	100mm(W) x 62mm(H) x 30mm(D)		- USB connector, device, serial - Cable to vehicle supply
Weight	130g		- Configuration through USB-connector, SMS, OTA FTP Server
		Development tools	Software configurator tool
E O D		Approvals	CE marking 2004/108/EC (EMC directive)

