

Advance GPS Fleet Tracker



Features

- Dual processor, multi-thread system
- Fast and stable application performance
- Modular architecture and multiple watchdogs
- Up to +65 volt power surge protection
- Driver behavior and collision detection
- iButton, RFID and magnetic card reader for driver ID
- AGPS support to improve GPS fixing time
- Activated by motion/ignition
- Over the air (OTA) firmware/configuration upload
- Jamming, antenna cut, power lost and low battery alerts
- Tire pressure and temperature detection
- Real-time alerts with surveillance images

Specifications

Mechanical and Environmental		
Dimension (L x W x H)	117 x 77 x 35 mm (±2mm)	
Weight	240 g	
Material	Aluminum case	
Operation Temperature	-20°C ~ +60°C (board temperature)	
Storage Temperature	-40°C ~ +85°C (board temperature)	
Electrical		
Battery	Battery Cell	1000 mAh prismatic Li-Ion
	Operation Temperature	-20°C ~ +60°C
	Storage Condition	-20°C ~ +35°C, low humidity and no corrosive gas
	Capacity	1,000 mAh
Power Supply Input	9 ~ 36 Vdc / 2A	
Power Consumption	Transmit	150 mAh
	Stand-by	70 mAh

IO Interface and Other		
Input	12 bit (0 ~ 36 V) analog input x 2	
	Active high input x2	
	Active low input x3	
1-Wire®	iButton	
	Digital thermometer (maximum 2 thermometers)	
Output	Immobilizer	
	Buzzer	
	Negative output x4 (200mA max.)	
Power Supply Output	On-board 3.3V 100 mA output	
	On-board 5V 100 mA output	
RS-232	3-wire RS-232 interface x3	
SIM Slot	Full size SIM	
USB	USB 2.0 high speed compatible slave interface	
2.5 mm Audio Port	Audio jack (speaker and microphone)	
SMA Straight Jack	GPS and GSM/UMTS antennas	
3-Axes Accelerometer	±6G (default)	
Memory Backup	9 MB flash memory	
LED	Amber	GSM
	Red	Power
	Green	GPS
GPS		
Receiver Type	56-channel, GPS L1 C/A, SBAS: WAAS, EGNOS, MSAS	
Acquisition	Cold starts 29 secs, aided starts 5 secs, reacquisition 1 sec	
Sensitivity	Tracking & Nav. -162 dBm, cold starts -148 dBm, warm starts -148 dBm	
Accuracy	Autonomous 2.5 m, SBAS 2.0 m	
Operation Limits	Altitude 50,000 m, velocity 500 m/s, dynamics ≤ 4 g	



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Cellular Communication	
UMTS (WCDMA/FDD)/HSPA	800 / 850 / 900 / 1900 / 2100 MHz HSDPA Cat.8 / HSUPA Cat.6 data rates Downlink: max. 7.2 Mb/s Uplink: max. 5.76 Mb/s
GSM	850 / 900 / 1800 / 1900 MHz
GPRS	Class 12 data rates, CS1-CS4 - up to 85.6 kb/s
EDGE	EDGE Class 12 data rates, MCS1-9 - up to 237 kb/s
CSD	Up to 9.6 kb/s, V.110, non-transparent
SMS	PDU / Text mode
Key Features	Embedded TCP/IP, UDP/IP, HTTP/FTP protocols
	Network jamming Detection
	High quality voice support for hands-free operation

Accessories

Standard
24 pin I/O cable
GPS antenna
GSM/UMTS antenna
Optional
USB cable (for configuration use)
ISO-7637 power surge protection box
Serial camera with infrared night vision
RFID reader
Magnetic card reader
iButton probe
iButton tag & key fob
Buzzer



RV-8 Advance GPS Fleet Tracker

Fuel level sensor
Immobilizer relay
1-wire digital thermometer
Hands-free speaker and microphone
Tyre pressure sensor receiver
Tyre pressure sensor (900 kpa max, for regular vehicles, must purchase at least a pair)
Tyre pressure sensor (1300 kpa max, for trucks/buses, must purchase at least a pair)
Tyre pressure sensor signal repeater (normally used for vehicles with more than 6 tyres)

NOT E:

1. Datasheets are updated as needed and as such, specifications are subject to change without notice.
2. All specifications are measured at an ambient temperature of 25°C, humidity<75%, and nominal input voltage.