ARKNAV

RX-8W
Waterproof Vehicle Tracker

Features

- IP67 dust tight and waterproof rating
- Wide range of power input voltage
- Store and resend up to 50,000 locations
- Pin point cell location
- AGPS support to improve GPS fixing time
- Driver ID (optional)
- Immobilizer (optional)
- Activated by motion/ignition
- Over the air (OTA) firmware/configuration upload
- Built-in antennas, compact size

Specifications

Mechanical and Environmental	
Dimension (L x W x H)	100 x 70 x 32 mm (±2 mm)
Weight	230 g
Material	PC-ABS thermoplastic, heat and impact resistant
IP Rating	IP67
Operation Temperature	-20°C ~ +60°C
Storage Temperature	-40°C ~ +85°C

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	6 ~ 36 V_{dc} (Current 2A, Ripple < 300mV$_{p-p}$)				
Power Consumption		6V$_{dc}$	12V$_{dc}$	24V$_{dc}$	36V$_{dc}$
	Transmit	200 mA	120 mA	50 mA	35 mA
	Stand-by	85 mA	45 mA	25 mA	20 mA
	Idle	25 mA	10 mA	8 mA	7 mA

IO Interface and Other		
Input	6 ~ 36 Vdc up to 2A	
	Active high input	
	Active low input	
1-Wire®	iButton	
Output	Immobilizer	
	Buzzer	
SIM Slot	Full size SIM	
USB	Prolific USB-to-Serial Comm Port	
3-Axes Accelerometer	±16G (default)	
Memory Backup	8 MB flash memory	
Antenna	Built-in GPS and GSM antennas	
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

Cellular Communication	
Mobile Station Class	Class B
GSM / GPRS Bands	GSM 850 MHz, E-GSM 900 MHz, DCS 1800 MHz, PCS 1900 MHz
Packet Switched Data Rate	GPRS multi-slot class 10, coding scheme CS1 – CS4, up to 85.6 kb/s DL, up to 42.8 kb/s UL
Key Features	Embedded TCP/IP, UDP/IP, HTTP/FTP protocols
	Network jamming detection, CellLocate & hybrid positioning

Accessories

Standard
Warranty seals
Optional
USB to serial cable (for configuration use)
ISO-7637 power surge protection box
Immobilizer relay
iButton probe
iButton tag & key fob
Buzzer
Digital temperature sensor
Microphone (audio surveillance)

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.