

## RF Specifications

|                                 |  |
|---------------------------------|--|
| <b>Frequency</b>                | GSM: 850/900/1800/1900 MHz<br>UMTS: 850/1900/2100 MHz  |
| <b>Transmitting Power</b>       | Class 4 (33±2 dBm) for GSM 850 and EGSM 900<br>Class 1 (30±2 dBm) for DCS 1800 and PCS 1900<br>Class 3 (24+1/-3 dBm) for UMTS 850/1900/210   |
| <b>GSM/GPRS Data Features</b>   | Support GPRS multi-slot class 12 (10 by default)<br>Coding scheme: CS-1, CS-2, CS-3 and CS-4<br>Maximum of four Rx time slots per frame  |
| <b>Transmission Data</b>        | HSDPA R5: Max 3.6 Mbps (DL)<br>WCDMA R99: Max 384 kbps (DL)/384 kbps (UL)<br>GPRS: Max 85.6 kbps (DL)/85.6 kbps (UL)   |
| <b>HSDPA and WCDMA Features</b> | HSDPA data rate corresponds with 3GPP R5. 3.6 Mbps on downlink<br>WCDMA data rate corresponds with 3GPP R99 R4. 384 kbps on downlink and 384 kbps on uplink<br>Support both 16-QAM and QPSK modulation |

## GPS Specifications

|                                |  |
|--------------------------------|--|
| <b>GPS Chipset</b>             | u-blox All-In-One GPS receiver   |
| <b>Sensitivity</b>             | Autonomous: -147 dBm<br>Hot start: -156 dBm<br>Reacquisition: -160 dBm<br>Tracking: -162 dBm |
| <b>Position Accuracy (CEP)</b> | Autonomous: <2.5m<br>SBAS: < 2.0m  |
| <b>TTF (Open Sky)</b>          | Cold Start: 27s average<br>Warm Start: 27s average<br>Hot Start: 1s average                  |

## Interfaces

|                                |  |
|--------------------------------|--|
| <b>Digital Inputs</b>          | Two digital inputs<br>One positive trigger for ignition detection<br>One negative trigger input for normal use |
| <b>Digital Outputs</b>         | One digital output, open drain, 150mA max current drain  |
| <b>Latched Digital Outputs</b> | One digital output with internal latch circuit, open drain, 150mA max current drain                            |
| <b>GSM Antenna</b>             | Internal only  |
| <b>GPS Antenna</b>             | Internal only  |
| <b>Indicator LED</b>           | CELL, GPS, and Power   |

## General Specifications

|                          |   |
|--------------------------|---|
| <b>Dimensions</b>        | 102mm x 46mm x 20.5mm   |
| <b>Weight</b>            | 122g  |
| <b>Backup Battery</b>    | Li-Polymer 100 mAh  |
| <b>Operating Voltage</b> | 8V to 32V DC  |
| <b>Standby Time</b>      | Without reporting: 110 hours<br>5 minute reporting: 45 hours<br>10 minute reporting: 51 hours |
| <b>Waterproof</b>        | IP67 compliant  |
| <b>Operating Temp</b>    | -30°C ~ +70°C<br>-40°C ~ +80°C for storage  |

## Air Interface Protocol

|                                    |  |
|------------------------------------|--|
| <b>Transmit Protocol</b>           | TCP, UDP, SMS  |
| <b>Scheduled Report</b>            | Report position at preset time and distance intervals                |
| <b>Geofence</b>                    | Geo-fence and parking alarm.<br>Supports up to 20 internal geofences |
| <b>Low Power Alarm</b>             | Alarm when backup battery is low                                     |
| <b>Power On Report</b>             | Report when the device is powered on                                 |
| <b>Tow Alarm</b>                   | From internal 3-axis accelerometer                                   |
| <b>Driving Behavior Monitoring</b> | Aggressive driving behavior detection                                |
| <b>Crash Detection</b>             | Accident data collection for reconstruction and analysis             |
| <b>Special Alarm</b>               | Special alarm based on digital/analog inputs                         |
| <b>Remote Control</b>              | OTA control of outputs   |

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