

Specification:

GSM Specifications

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|-------------------------------|---|
| Frequency | Quad band: 850/900/1800/1900 MHz Compliant to GSM phase 2/2+ -Class 4 (2W @ 850/900 MHz) -Class 1 (1W @ 1800/1900 MHz) |
| GPRS | GPRS multi-slot class 12 GPRS mobile station class B |
| RMS Phase Error | 5 deg |
| Max RF Output Power | GSM850/GSM900: 33.0±2 dBm DCS1800/PCS1900: 30.0±2 dBm |
| Dynamic Input Range | -15 ~ -108 dBm |
| Receiver Sensitivity | Class II RBER 2% (-107 dBm) |
| Stability of Frequency | < 2.5 ppm |
| Max Frequency Error | ±0.1 ppm |

GNSS Specifications

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|--------------------------------|---|
| GNSS Type | u-blox All-In-One GNSS receiver |
| Sensitivity | Autonomous: -147 dBm Hot start: -156 dBm Tracking & navigation: -162 dBm Reacquisition: -160 dBm |
| Position Accuracy (CEP) | Autonomous: < 2.5m |
| TTFB (Open Sky) | Cold start: 27s average Warm start: 27s average Hot start: 1s average |

Interfaces

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| Digital Inputs | 1 positive trigger input for ignition detection 1 negative trigger input for normal use |
| Power Button | Power on and power off, can be disabled via air interface protocol |
| Function Button with Vibration Feedback | Emergency alert or instant geo-fences setting |

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|---------------------------|---|
| GSM/GNSS Antennas | Internal only |
| LED Indicators | CEL, GNSS, PWR |
| Mini USB Interface | Used for external power and configuration |

General Specifications

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|---------------------------------|---|
| Dimensions | 38.5mm(L) x 23.5mm(W) x 68.5mm(H) |
| Weight | 60g |
| Internal Battery | Li-Polymer, 1300 mAh |
| Standby Time | Without reporting: 280 hours 5 minutes' reporting: 120 hours 10 minutes' reporting: 190 hours |
| Water Resistance | IPX5 compliant |
| Charging Voltage | 5V DC |
| External Battery Voltage | 3.5V to 4.2V DC |
| Operating Temperature | -20°C ~ +55°C |

Air Interface Protocol

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|----------------------------|---|
| Transmit Protocol | TCP, UDP, SMS |
| Scheduled Report | Report position and status based on preset time intervals, distance, mileage or a combination of these settings |
| Geo-fences | Support up to 5 geo-fence regions |
| Low Power Alarm | Alarm when battery is low |
| Power On/Off Report | Report when the device is powered on and off |
| SOS/Emergency Alarm | SOS alarm via pressing function button |
| Special Alarm | Special alarm based on digital inputs |
| Motion Detection | Motion alarm based on internal 3-axis accelerometer |