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## Eagle Datasheet

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Australia - New Zealand - Hong Kong - Macau

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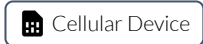


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# Eagle



GPS location Flexible data logger Bluetooth gateway Hardwired & battery backup

Advanced battery-powered or powered data logger with GPS featuring an impressive array of inputs/outputs, sensor interfaces and Bluetooth interface with a range of devices, switches and sensors to fit complex IoT applications.

- High-precision GPS/GLONASS tracking device
- Cellular 4G connectivity
- 2x Digital Inputs, 1x Switch Ground Digital output, 1x Ignition Digital Input
- I<sup>2</sup>C, SDI-12 and RS-485 interface
- Bluetooth Low Energy (BLE) 5.0 Gateway
- Accelerometer for Smart Movement Based Tracking
- Configuration and management over-the-air (OTA)
- Geo-Fences



## Applications



Manufactured by



Magnet, cable ties and double sided tape are optional



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## Mechanical Specifications

|                       |   |
|-----------------------|---|
| Enclosure             | ABS Polycarbonate Plastic   |
| Mounting Options      | Screws, magnets, VHB high strength adhesive, custom bracket, cable-tie, bolts or rivets |
| Dimensions            | L 183 x W 145 x H 40 mm   |
| Weight                | 564g (batteries included)   |
| Operating Temperature | -20°C to +60°C  |

## Power

|                |  |
|----------------|--|
| Input Voltage  | Flexible Power Options:<br>5V - 16V DC (max): screw terminals<br>4x C-cell Batteries   |
| Sleep Current  | <10 $\mu$ A*<br>*Average current in lowest power configuration   |
| Backup Battery | If line power is connected and batteries are also installed, the device will fall back to the 4x C-cells if external power is disconnected |

## GPS Tracking & Connectivity

|                               |   |
|-------------------------------|---|
| GPS/GLONASS Tracking          | uBlox EVA-M8<br>Concurrent GPS and GLONASS tracking<br>72 channel high sensitivity receiver<br>-167dBm industry leading tracking performance<br>Low Noise GPS Amplifier (LNA)                 |
| Low Noise GPS Amplifier (LNA) | GPS signals are boosted by a special low-noise amplifier (LNA). This allows operation where normal units will fail to receive GPS signal  |
| AssistNow Offline             | AssistNow Offline aiding data for extremely fast time-to-first-fix  |
| 4G Modem                      | uBlox SARA-R410M modem (Telstra certified) operates on low-power networks<br>Supported LTE bands: 1*, 2, 3, 4, 5, 8, 12, 13, 18, 19, 20, 25, 26*, 28 (*roaming bands)<br>Micro (3FF) SIM card |

## Others

|   |  |
|---|--|
| Sensor Monitoring Analog/Digital Inputs | 2x 0-30V Analog inputs / Auto ranging, 12-bit ADC<br>3x Digital inputs: 0-48V DC input range, on/off thresholds, Pulse counting  |
| Digital Outputs                         | 2x Switched ground digital outputs<br>Easily wired to control external devices, for example to turn a lighting tower on/off  |
| Ignition                                | Digital inputs can be used to log run hours  |
| I <sup>2</sup> C                        | "Inter-IC communications" is an interface commonly used in sensor modules  |
| RS-485                                  | RS485 interface supported to connect other sensors and devices   |
| SDI-12                                  | SDI-12 protocol is commonly used in sensors and measurement devices  |
| 4-20mA                                  | 2x 4-20mA inputs can be used to interface to current loop sensors. Precision: 0.025mA  |
| Geo-Fences                              | Download hundreds of geo-fences from the device management platform and update them Over-The-Air. Define custom parameters for specific areas and alerts if an asset enters or leaves specific locations |
| Impact Detection                        | Configure impact-detection alerts when g-forces are exceeded by a user-defined threshold   |
| Geo-Fences                              | Download hundreds of geo-fences from the device management platform and update them Over-The-Air. Define custom parameters for specific areas and alerts if an asset enters or leaves specific locations |

## Firmware Smarts

|                        |   |
|------------------------|---|
| OTA Software Updates   | Over The Air (OTA) firmware & configuration updates from the device management platform   |
| Performance Monitoring | Multiple performance counters to monitor wakeups, GPS fixes, uploads and more   |
| AES-256 Security       | Military-level AES-256 Encryption from device to OEM Server to protect the integrity and confidentiality of telematics data.<br>Data forwarded to third-party systems is sent via HTTPS for end-to-end security |