

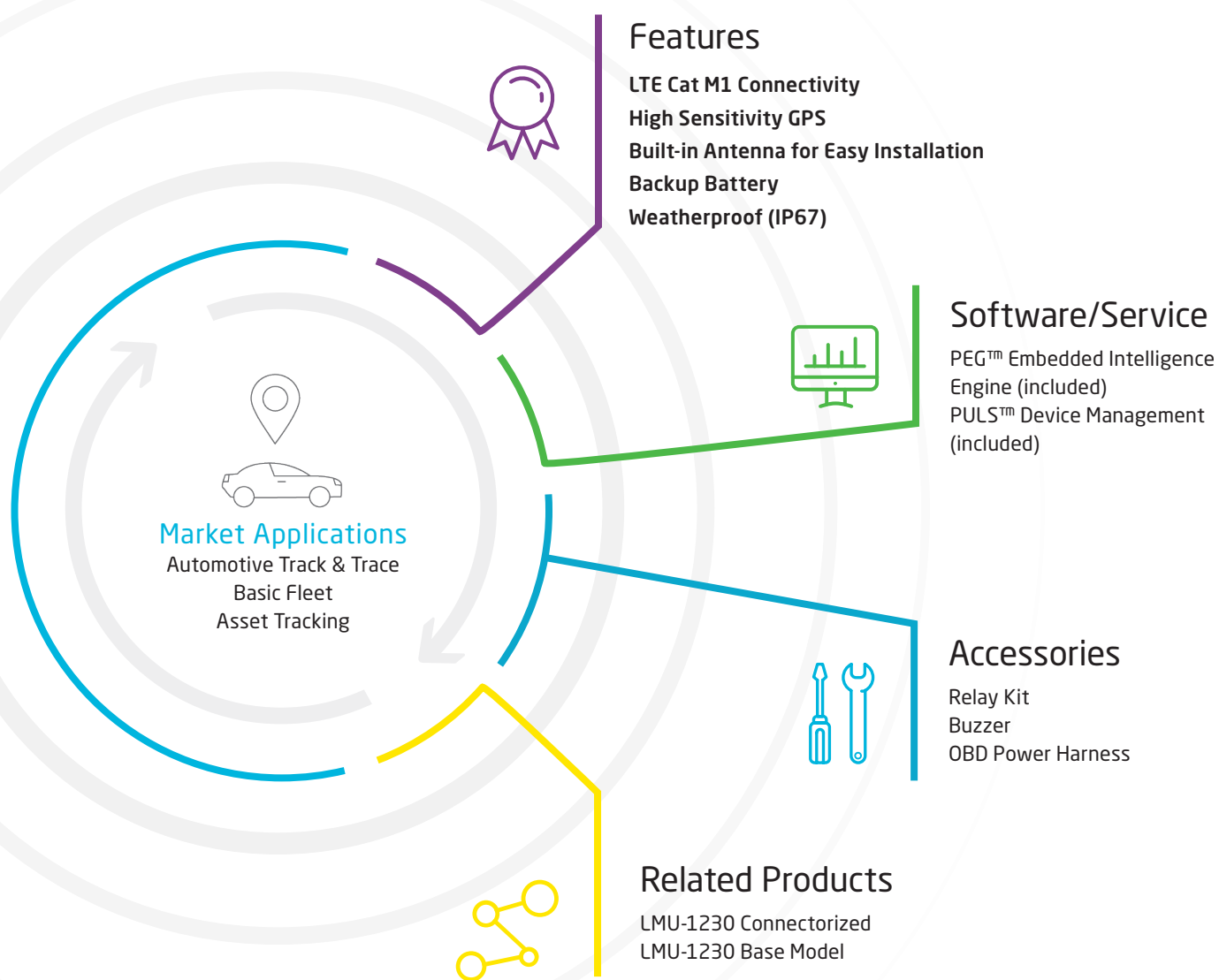
# LMU-1230™

Weatherproof



## A Robust, Compact and Weatherproof Vehicle Tracker with I/O Capability for Commercial Deployments.

The LMU-1230™ is an economical, low powered asset & vehicle tracking device built for applications requiring only the essential features. The weatherproof and reliable design incorporates a rechargeable battery pack, making the LMU-1230 best suited for harsh and rugged applications.



# LMU-1230™ Technical Specifications

## Cellular/Network

|                          |  |
|--------------------------|--|
| North American Variant I |  |
| LTE Cat M1               | 1900 (B2)/AWS 1700 (B4)/700 (B12)* MHz |

## Data Support

|                      |
|----------------------|
| SMS, UDP Packet Data |
|----------------------|

## Satellite Location (GNSS)

|                                  |  |
|----------------------------------|--|
| Constellation Support            | GPS, GLONASS, SBAS Engine (WAAS, EGNOS, MSAS, GAGAN) |
| Channels                         | 55 Channel   |
| Tracking Sensitivity             | -167 dBm   |
| Acquisition Sensitivity          | -157 dBm (hot start)<br>-148 dBm (cold start)        |
| Location Accuracy                | ~2.0m CEP Open Sky (GPS SBAS 24 hours static)        |
| Location Update Rate             | 1 Hz   |
| AGPS Location assistance capable |  |

## Comprehensive I/O

|                 |  |
|-----------------|--|
| Ignition Input  | 1 fixed low bias                                       |
| Digital Inputs  | 2 (high/low selectable bias 0-32 VDC)                  |
| Digital Outputs | 3 (open collector relay 150mA)                         |
| Accelerometer   | Built-in, triple-axis (motion sensing, tilt detection) |

## Certifications

|                         |                      |
|-------------------------|----------------------|
| Industry Certifications | FCC, IC, PTCRB, RoHS |
|-------------------------|----------------------|

## Device Management

|       |  |
|-------|--|
| PULS™ | Monitor, manage, upgrade firmware, configure and troubleshoot devices remotely |
|-------|--|

## Embedded Intelligence Engine

|      |                                      |
|------|--------------------------------------|
| PEG™ | Behavioral scripting (8-bit support) |
|------|--------------------------------------|

## Electrical

|                   |  |
|-------------------|--|
| Operating Voltage | 12/24 VDC Vehicle Systems<br>9-32 VDC (startup, operating)<br>7-32 VDC (momentary)   |
| Power Consumption | Typical 500 uA @ 12V (deep sleep)<br>Typical 11 mA @ 12V (radio-active sleep/idle)<br>Typical 40 mA @ 12V (active tracking w/GPS and cell enabled) |

## Battery Pack

|                      |                |
|----------------------|----------------|
| Battery Capacity     | Up to 1400 mAh |
| Battery Technology   | Lithium-Ion    |
| Charging Temperature | 0° to +45° C   |

## Environmental

|                           |   |
|---------------------------|---|
| Temperature               | -30° to +60° C (connected to primary power)<br>-10° to +60° C (operating on internal battery)<br>-20° to +35° C ≤ 6 months (long term storage with battery) |
| Humidity                  | 95% RH @ 50° C non-condensing   |
| Shock and Vibration       | U.S. Military Standard 202G, 801F SAE J1455   |
| ESD                       | IEC 61000-4-2 (4KV test)  |
| Ingress Protection Rating | IP67  |

## Physical/Design

|            |  |
|------------|--|
| Dimensions | 3.06 x 4.45 x 0.87" (77.8 x 113 x 22 mm) |
| Weight     | 6.35 oz. (180g)                          |

## Connectors/SIM Access

|                  |                    |
|------------------|--------------------|
| GPS Antenna      | Internal           |
| Cellular Antenna | Internal           |
| SIM Access       | Internal (2FF SIM) |

## Product Options

|                             |
|-----------------------------|
| CalAmp Telematics Cloud API |
|-----------------------------|

\*Note: B17 is a subset of B12