

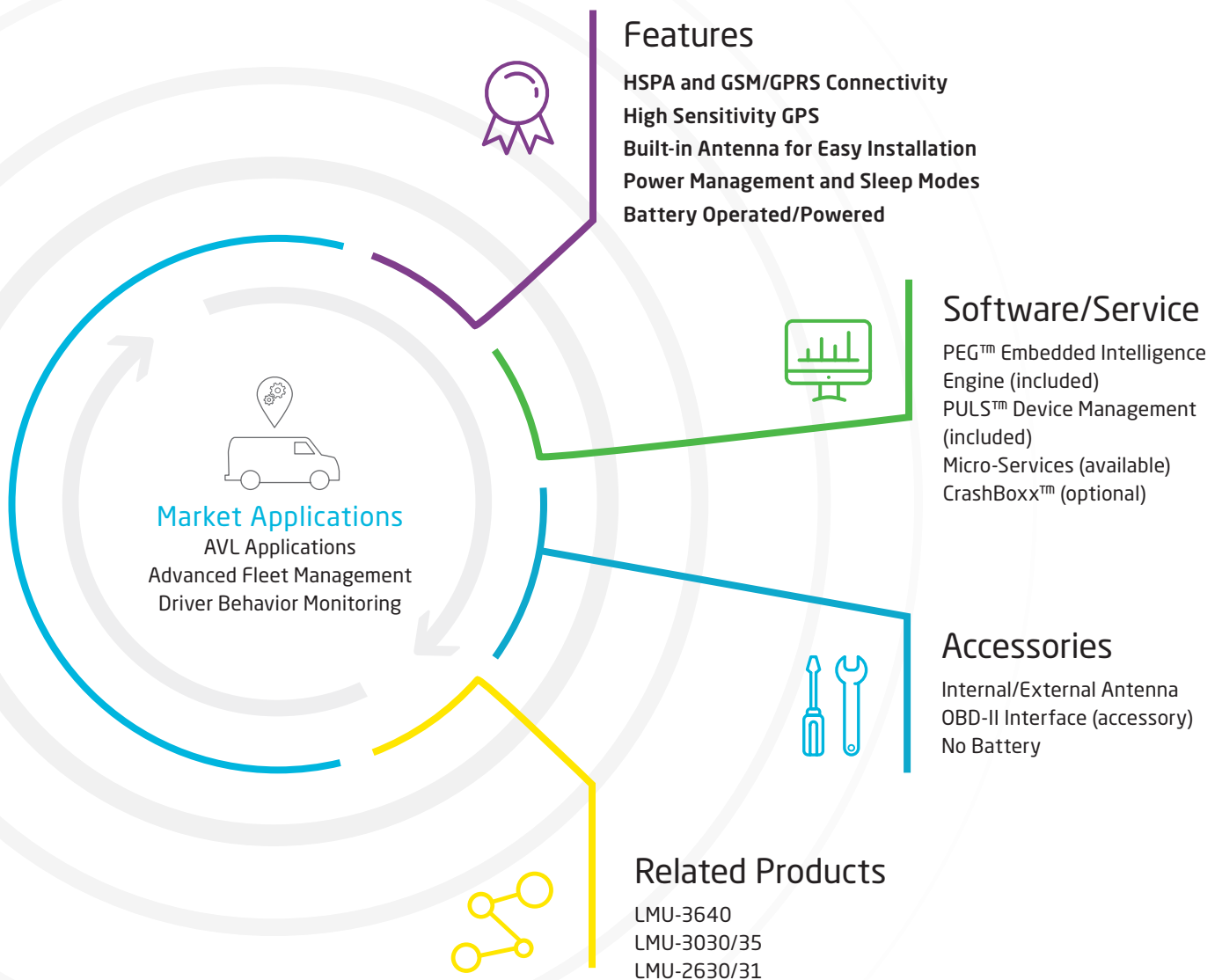
# LMU-2720™

Internal Antenna



## Leading Edge Fleet Tracker for Advanced Fleet Management with Extensive Capabilities

The LMU-2720™ is a fleet tracking device incorporating a powerful processing engine, HSPA Penta-Band network connectivity and built-in triple-axis accelerometer for measuring driver behavior and vehicle impact. Best suited for AVL and fleet applications.



# LMU-2720™ Internal Antenna Technical Specifications

## Cellular/Network

|                       |  |
|-----------------------|--|
| <b>Global Variant</b> |  |
| HSPA/UMTS             | 900 (VIII)/800 (VI)/850 (V)/1700 (IV)/1900 (II)/2100 (I) MHz |
| GSM/GPRS              | 850/900/1800/1900 MHz  |

## Data Support

SMS, UDP Packet Data, CalAmp Telematics Cloud API

## Satellite Location (GNSS)

|   |  |
|---|--|
| <b>Constellation Support</b>            | Hybrid GPS, GLONASS, SBAS Engine (WAAS, EGNOS, MSAS) |
| <b>Channels</b>                         | 56 Channel   |
| <b>Tracking Sensitivity</b>             | -162 dBm   |
| <b>Acquisition Sensitivity</b>          | -147 dBm   |
| <b>Location Accuracy</b>                | ~2.0m CEP Open Sky (GPS SBAS 24 hours static)        |
| <b>Location Update Rate</b>             | Up to 4 Hz   |
| <b>AGPS Location assistance capable</b> |  |

## Comprehensive I/O

|                          |   |
|--------------------------|---|
| <b>Digital Inputs</b>    | 5 (1 fixed bias low, 4 programmable bias)   |
| <b>Digital Outputs</b>   | 3 relay driver (200mA)  |
| <b>Analog Inputs</b>     | 2 (1 interval VCC monitor, 1 external A/D input)  |
| <b>Accelerometer</b>     | Built in, triple-axis (driver behavior, impact detection, motion sensing, tilt detection) |
| <b>Serial Interface</b>  | 2 (1 TTL serial, 1 switched power TTL)  |
| <b>1-Wire® Interface</b> | 1 (driver ID/temperature sense)   |
| <b>Status LEDs</b>       | 2 (GPS, cellular)   |

## Certifications

**Industry Certifications** FCC, CE, IC, PTCRB, RoHS

## Device Management

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

## Embedded Intelligence Engine

**PEG™** Update device functionality or develop new on the edge applications

## Electrical

|                          |   |
|--------------------------|---|
| <b>Operating Voltage</b> | 12/24 VDC Vehicle Systems<br>9-30 VDC (start-up, operating)<br>7-32 VDC (momentary)   |
| <b>Power Consumption</b> | Typical <3mA @ 12V (deep sleep)<br>Typical <10mA @ 12V (sleep on network w/ SMS)<br>Typical <20mA @ 12V (sleep on network w/ GPRS)<br>Typical <70mA @ 12V (active tracking) |

## Battery Pack

|                             |                     |
|-----------------------------|---------------------|
| <b>Battery Capacity</b>     | 200 mAh or 1000 mAh |
| <b>Battery Technology</b>   | Lithium-Ion         |
| <b>Charging Temperature</b> | 0° to +45° C        |

## Environmental

|                            |   |
|----------------------------|---|
| <b>Temperature</b>         | -30° to +75° C (connected to primary power)<br>-40° to +85° C (storage) |
| <b>Humidity</b>            | 95% RH @ 50° C non-condensing   |
| <b>Shock and Vibration</b> | U.S. Military Standards 202G, 810F, SAE J1455                           |
| <b>ESD</b>                 | SAE J1113, FCC-Part 15B   |

## Physical/Design

|                   |                 |
|-------------------|-----------------|
| <b>Dimensions</b> | 90 x 54 x 20 mm |
| <b>Weight</b>     | 85 g (internal) |

## Connectors/SIM Access

|                         |                                       |
|-------------------------|---------------------------------------|
| <b>Connector Type</b>   | 20-pin Molex-type fused power harness |
| <b>GPS Antenna</b>      | Internal                              |
| <b>Cellular Antenna</b> | Internal                              |
| <b>SIM Access</b>       | Internal (2FF SIM)                    |

## Product Options

Driver ID/temperature sensing with 1-wire® protocol

External A/D input

NMEA data via serial

Internal or External GPS and cellular antennas

Serial cables

jPOD™ truck ECU interface

Garmin®, Magellan and other advanced peripherals support

## CALIFORNIA PROPOSITION 65



### WARNING:

This product can expose you to chemicals including Carbon black and Nickel, which are known to the State of California to cause cancer, and including Bisphenol A and 1,3-Butadiene, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)