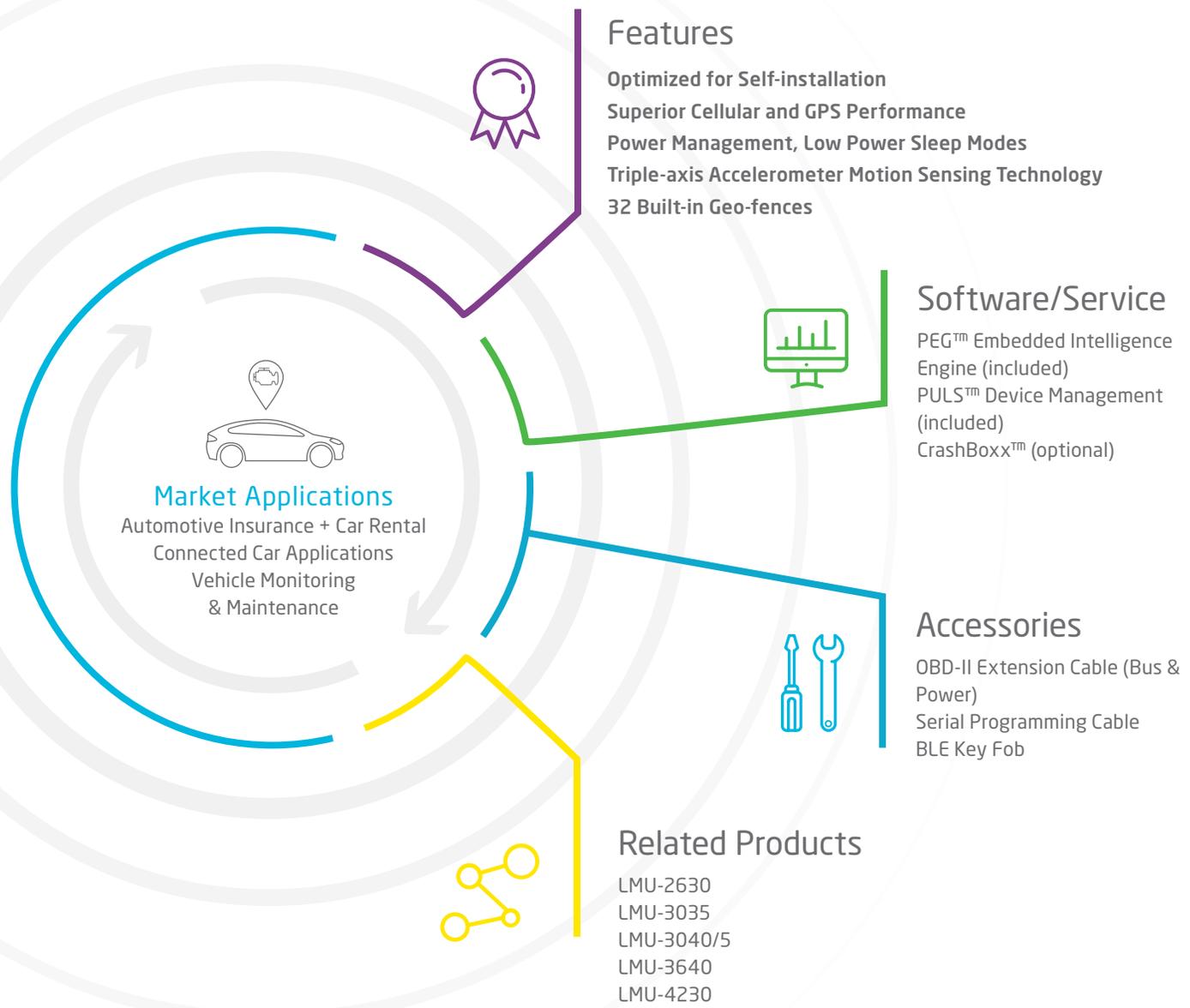


# LMU-3030™



## A Cost Optimized OBD-II Telematics Device for the Connected Car Market

The LMU-3030™ is an easy-to-install cost optimized OBD telematics device designed to meet the needs of the growing connected car economy. It is an ideal solution for passenger or light-duty vehicle applications where access to vehicle diagnostics interface (OBD-II) is essential for monitoring vehicle health and driver behavior.



# LMU-3030™ Technical Specifications

## Cellular/Network

<b>North American Variant I</b>	
LTE Cat 1	1900 (B2)/AWS 1700 (B4)/850 (B5)/700 (B12) MHz
HSPA/UMTS	850 (V)/1900 (II) MHz
<b>North American Variant II</b>	
LTE Cat 1	1900 (B2)/AWS 1700 (B4)/700 (B13) MHz
<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, TCP, CalAmp Telematics Cloud API

## Satellite Location (GNSS)

<b>Constellation Support</b>	Hybrid GPS, SBAS Engine (WAAS, EGNOS, MSAS, GAGAN)
<b>Channels</b>	50 Channel
<b>Tracking Sensitivity</b>	-162 dBm
<b>Acquisition Sensitivity</b>	-148 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>Geo-Fence</b>	32 PEG-Zones (rectangular/circular) 1024 Geo-Zones (polygon/circular - 5400)
AGPS Location assistance capable	

## Comprehensive I/O

<b>Accelerometer</b>	Built in, triple-axis (driver behavior, impact detection, motion sensing, tilt detection)
<b>Status LEDs</b>	3 (OBD, GPS, cellular)
<b>Serial Interface</b>	2-wire TTL serial interface (optional fit)

## 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>	9-16 VDC Vehicle Systems 9-30 VDC (start-up, operating) 7-32 VDC (momentary)
<b>Power Consumption</b>	Typical 4.9mA @ 13V (deep sleep) Typical 83mA @ 13V (normal operation) Typical 66mA @ 13V (SMS, UDP connection, GPS off) Typical 114mA @ 13V (continuous transmit)

## Environmental

<b>Temperature</b>	-30° to +75° C (connected to primary power) -40° to +85° C (storage)
<b>Humidity</b>	95% RH @ 50° C non-condensing
<b>Shock and Vibration</b>	SAEJ1455
<b>ESD</b>	CE, GCF, eMark

## Physical/Design

<b>Dimensions</b>	1.5 x 2.5 x 0.98" (43 x 64 x 25 mm)
<b>Weight</b>	1.83 oz. (52 g) (w/ battery)
<b>Enclosure</b>	Rugged textured plastic

## Interface Standards

<b>Bluetooth</b>	Bluetooth 4.0 Dual Mode (optional fit)
<b>OBD-II Interface</b>	J1850 PWM, J1850 VPW, ISO-9141-2, ISO-14230, KWP 2000, ISO-15765 CAN

## OBD Data Extraction

<b>Detection</b>	Automatic detection of vehicle interface services
<b>Extraction</b>	Transmission of standard OBD-II codes, plus manufacturer specific codes which are made available by the embedded OBD firmware stack
<b>Scripts</b>	Download of vehicle specific diagnostic scripts dependent on vehicle model variant

## Mounting

Via built-in OBD-II connector  
Self-adhesive mounting with OBD-II extender cable

## Product Options

Customized hardware and software development