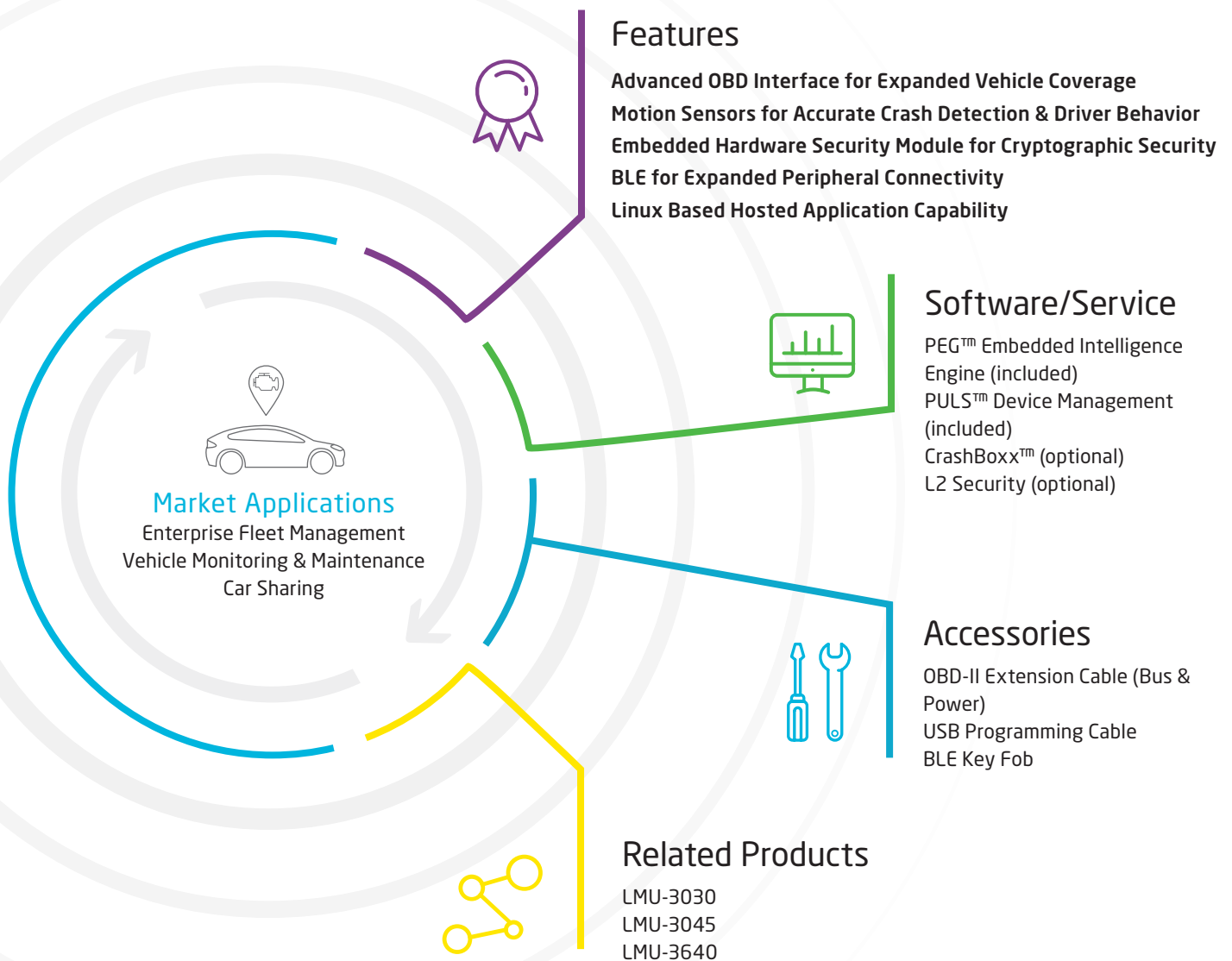


LMU-3040™



Robust Next Generation OBD Telematics for Connected Car and Enterprise Fleet Applications

The LMU-3040™ is a full featured OBD-II vehicle tracking device that is optimized for a diverse range of applications including driver behavior management, car rental, automotive and peer-to-peer car sharing. Best suited for accessing the vehicle diagnostics interface (OBD-II) in passenger or light-duty vehicles.



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L3040Q120DS V1-A

Cal/Amp®

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LMU-3040™ Technical Specifications

Cellular/Network

North American Variant I

LTE Cat 1	1900 (B2)/AWS 1700 (B4)/850 (B5)/700 (B12) MHz
HSPA/UMTS	850 (V)/1900 (II) MHz

North American Variant II

LTE Cat 1	AWS 1700 (B4)/700 (B13) MHz
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Data Support

SMS, UDP Packet Data, TCP, TLS, CalAmp Telematics Cloud API

Satellite Location (GNSS)

Constellation Support Hybrid GPS, GLONASS, SBAS Engine (wAAS, EGNOS, MSAS)

Channels 55 Channel

Tracking Sensitivity -167 dBm

Acquisition Sensitivity -157 dBm (hot start)
-148 dBm (cold start)

Location Accuracy ~2.0m CEP Open Sky (GPS SBAS 24 hours static)

Location Update Rate Up to 5 Hz

AGPS Location assistance capable

Comprehensive I/O

OBD-II Interface J1850 PWM, J1850 VPW, ISO-9141-2, ISO-14230 KWP 2000, ISO-15765 CAN, SW-CAN

Serial Port USB serial interface

Bluetooth Bluetooth Low Energy (BLE)

Status LEDs Programmable dual color (OBD, cellular, GPS)

Buzzer Integrated buzzer for audible alert applications

Sensors Gyroscope: Triple-axis, tilt, yaw, roll detection
Accelerometer: Triple-axis, impact, motion sense

Certifications

Industry Certifications FCC, IC, PTCRB, Applicable Carriers

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

Geo-Fences 32 built-in

Buffered Messages 20,000

Electrical

Operating Voltage 12-24 VDC Vehicle Systems
9-30 VDC (start-up, operating)
7-32 VDC (momentary)

Power Consumption Typical 500 uA @ 12V (deep sleep)
Typical 2 mA @ 12V (sleep on active network)
Typical 70 mA @ 12V (active tracking with GPS and cell enabled)

Battery Pack

Battery Capacity 180 mAh

Battery Technology Lithium-Ion

Charging Temperature 0° to +45° C

Certifications IEEE 1725-2011, UL 1624, UN 38.3

Environmental

Temperature -30° to +60° C (connected to primary power)
-10° to +60° C (operating on internal battery)
-20° to +25° C ≤ 6 months (long term storage)

Humidity 95% RH @ 50° C non-condensing

Shock and Vibration U.S. Military Standards 202G, 810F SAEJ1455

ESD IEC 61000-4-2 (4KV Test)

Physical/Design

Dimensions 1.88 x 2.50 x 1.14" (48 x 63.25 x 29 mm)

Weight 2.54 oz. (72 g)

OBD Data Extraction

Detection Automatic detection of vehicle interface services

Extraction Transmission of standard OBD-II codes, plus manufacturer specific codes which are made available by the embedded OBD firmware stack

Scripts Download of vehicle specific diagnostic scripts dependent on vehicle model variant

Connectors/SIM Access

GPS Antenna Internal

Cellular Antenna Internal

SIM Access Internal (4FF SIM)

BLE Antenna Internal

Product Options

OBD-II extender cable

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