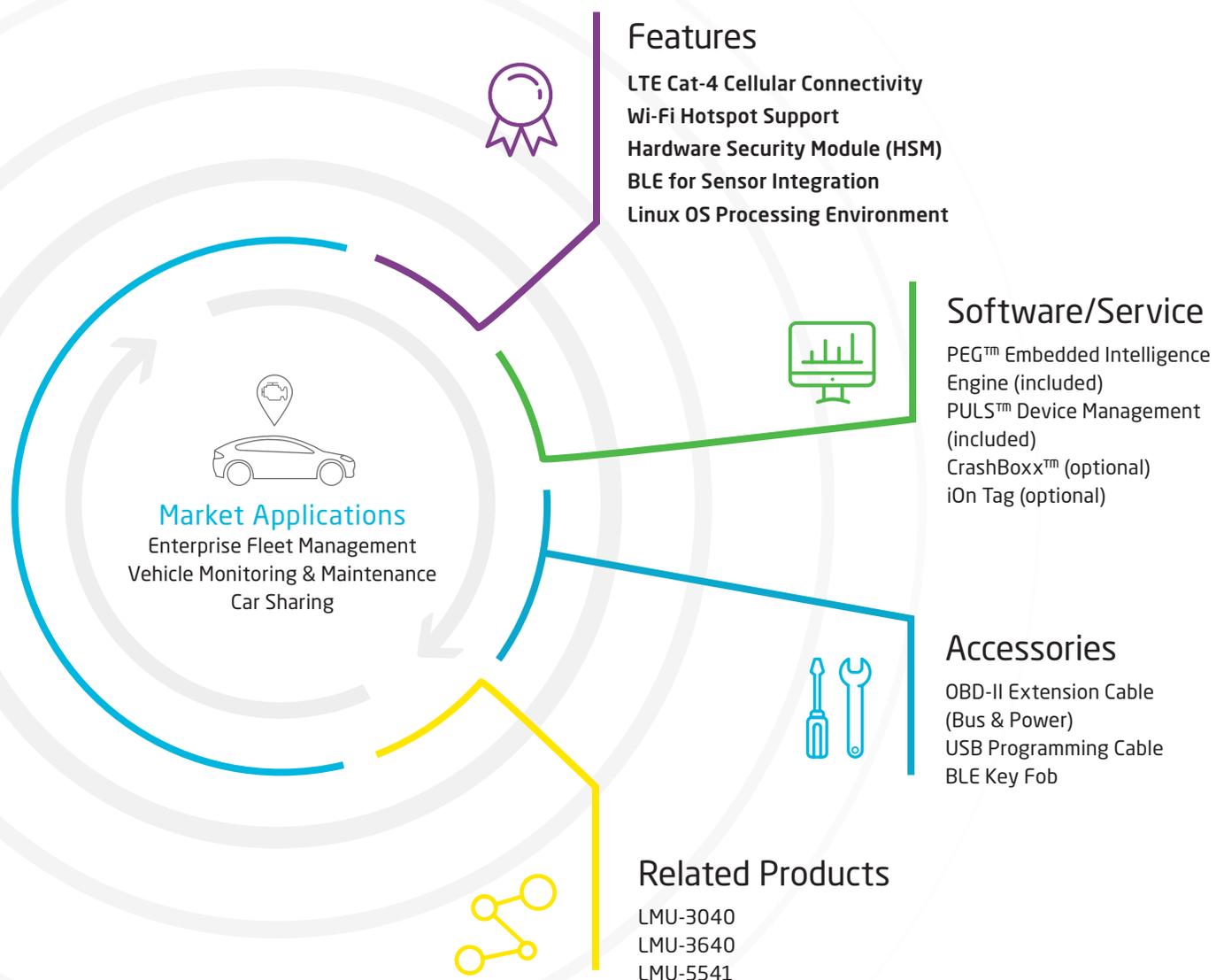


LMU-3240™



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

The LMU-3240™ is a feature-rich, LTE Cat-4 OBD-II, Wi-Fi Hotspot enhanced 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.



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LMU3240Q121DS V1-A

Cal/Amp®

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LMU-3240™ Technical Specifications

Cellular/Network

North American Variant I

LTE Cat 4	1900 (B2)/AWS 1700 (B4)/850 (B5)/700 (B12) MHz
HSPA/UMTS	850 (V)/1900 (II) MHz

Data Support

SMS, UDP, Wi-Fi, 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	Micro USB 2.0 B Type
Status LEDs	Programmable dual color (OBD, cellular, GPS)
Buzzer	Integrated buzzer for audible alert applications
Sensors	Accelerometer: 3-axis, impact, motion sense Gyroscope: 3-axis (pitch, yaw and roll)
SIM Access	Accessible (4FF SIM)

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 general, >4K expanded
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

Wireless Interfaces

GPS Antenna	Internal
Cellular Antenna	Main and Diversity
BLE Antenna	Internal
Wi-Fi Antenna	Internal, 2.4 GHz & 5 GHz

Interface Standards

Wi-Fi	802.11 a/b/g/n/ac
Bluetooth	BLE 4.2

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