

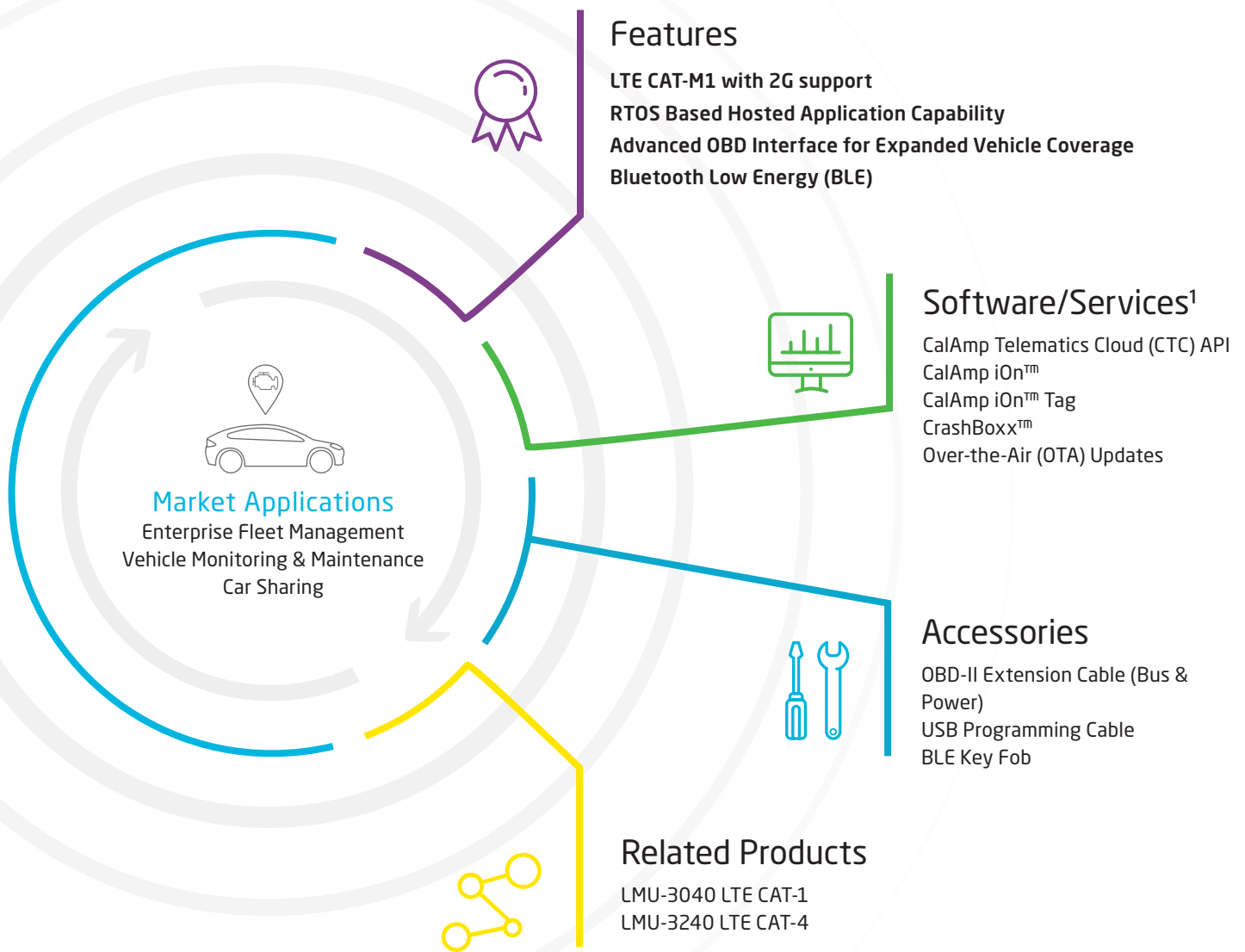
LMU-3040™

LTE CAT-M1



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

The LMU-3040™ is an LTE CAT-M1, OBD-II, Bluetooth Low Energy (BLE) capable full featured vehicle tracking device, optimized for a diverse range of applications including driver behavior management, car rental, automotive and peer-to-peer car sharing.



L3040MQ122DS V1-A

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¹ Subscription service enabled. Contact sales rep for additional details.

Cal/Amp®

CalAmp
15635 Alton Pkwy Ste 250
Irvine, CA 92618
888.3CALAMP
calamp.com

LMU-3040™ LTE CAT-M1 | Technical Specifications

Cellular/Network

Global Variant	
LTE CAT-M1	2100 (B1)/1900 (B2)/1800 (B3)AWS 1700 (B4)/850 (B5)/900 (B8)/700 (B12/B13/B28)/800 (B18/B19/B20)/1900 (B39/B25) MHz
GSM/GPRS	850/900/1800/1900 MHz

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	~2.5m CEP Open Sky
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 Connector
Status LEDs	Programmable dual color (OBD, cellular, GPS)
Sensors	Accelerometer: Triple-axis, impact, motion sense Gyroscope: Triple-axis

Certifications

Industry Certifications FCC, IC, CE, PTCRB, RCM, Applicable Carriers

Cloud/Software Services¹

PULS™	Monitor, manage, upgrade firmware, configure and troubleshoot devices remotely
CTC	Device data stream via RESTful APIs

Edge Intelligence¹

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 675 uA @ 12V (deep sleep) Typical 2 mA @ 12V (sleep on active network) Typical 60 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 1625/1725, US DOT 38.3, IEC62133-2, UL 2054

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	85% 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

SIM Access External

Wireless Interfaces

GPS Antenna	Internal
Cellular Antenna	Internal
BLE Antenna	Internal

Interface Standards

Bluetooth Bluetooth Low Energy (BLE)

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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