

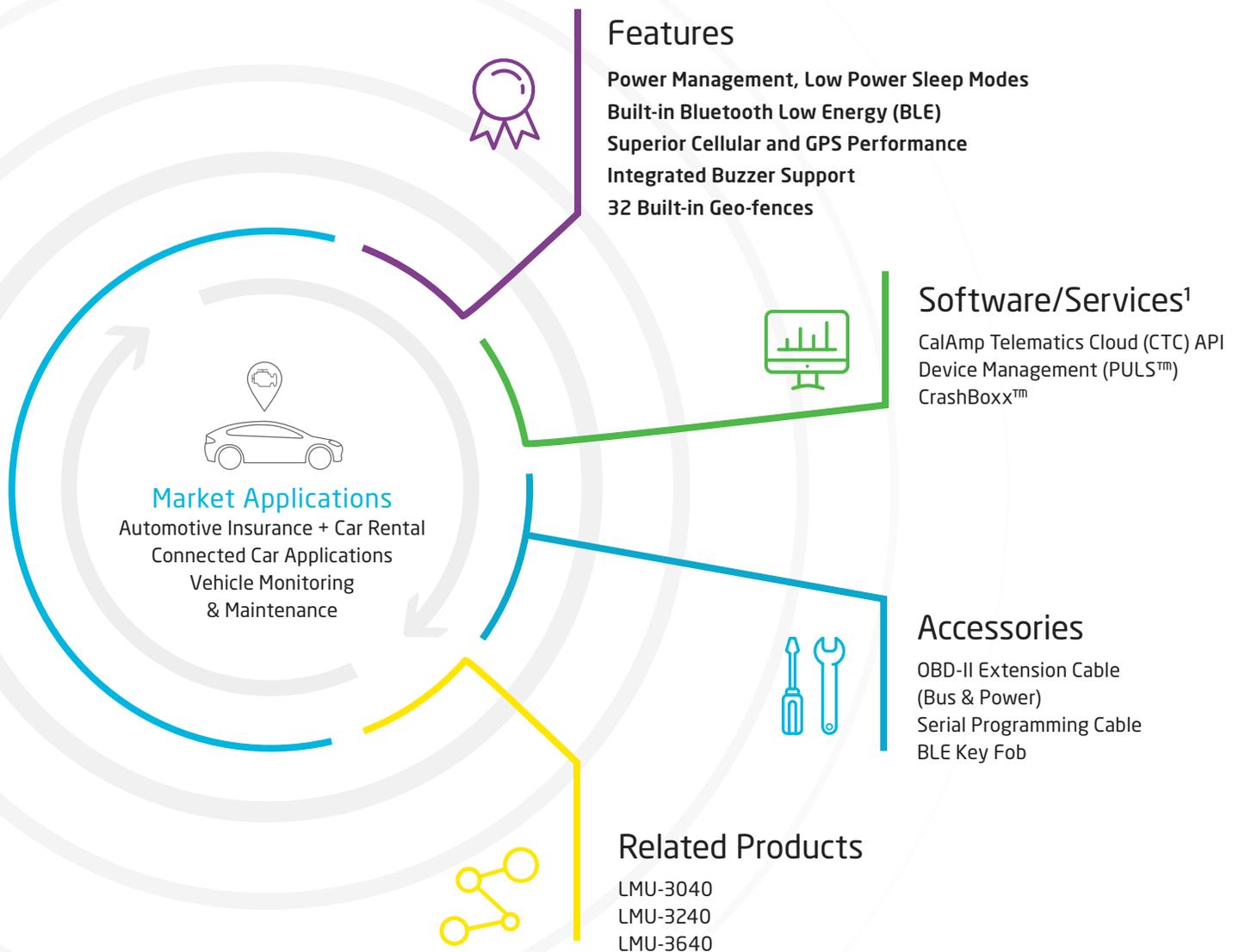
LMU-3030™

LTE CAT-1



A Versatile OBD-II Telematics Device for the Connected Car Market

The LMU-3030™ LTE CAT-1 is an easy-to-install, flexible 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 the vehicle diagnostics interface (OBD-II) is essential for monitoring vehicle health and driver behavior.



L3030LQ419DS V9-C

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

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LMU-3030™ LTE CAT-1 Technical Specifications

Cellular/Network

North American Variant I LTE CAT-1	1900 (B2)/AWS 1700 (B4)/700 (B12) MHz
North American Variant II LTE CAT-1	AWS 1700 (B4)/700 (B13) MHz

Data Support

SMS, UDP Packet Data, TCP

Satellite Location (GNSS)

Constellation Support	GPS, GLONASS, SBAS Engine (WAAS, EGNOS, MSAS, GAGAN)
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 4 Hz
AGPS Location assistance capable	

Comprehensive I/O

OBD-II Interface	J1850 PWM, J1850 VPW, ISO-9141-2, ISO-14230 (KWP 2000), SW-CAN, ISO-15765 CAN
Serial Port	2-wire TTL Serial Interface
Bluetooth	Bluetooth Low Energy (BLE)
Status LEDs	3 (OBD, GPS, cellular)
Integrated Buzzer	Programmable audible alert
Accelerometer	Built in, triple-axis (driver behavior, impact detection, motion sensing, tilt detection)

Certifications

Industry Certifications FCC, IC, CE, PTCRB, RoHS

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	2000

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Electrical

Operating Voltage	12/24 VDC Vehicle Systems 9-30 VDC (start-up, operating) 7-32 VDC (momentary)
Power Consumption	Typical 2mA @ 12V (deep sleep) Typical 40mA @ 12V (active tracking w/ GPS and cell enabled)

Battery Pack

Battery Capacity	180 mAh
Battery Technology	Lithium-Ion
Charging Temperature	0° to +45° C

Environmental

Temperature	-30° to +60° C (connected to primary power) -20° to +60° C (operating on battery) -20° to +25° C ≤ 6 months (long term storage with battery)
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	1.85 x 2.6 x 1.1" (47 x 67 x 28 mm)
Weight	1.75 oz (50 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 (2FF SIM)

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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