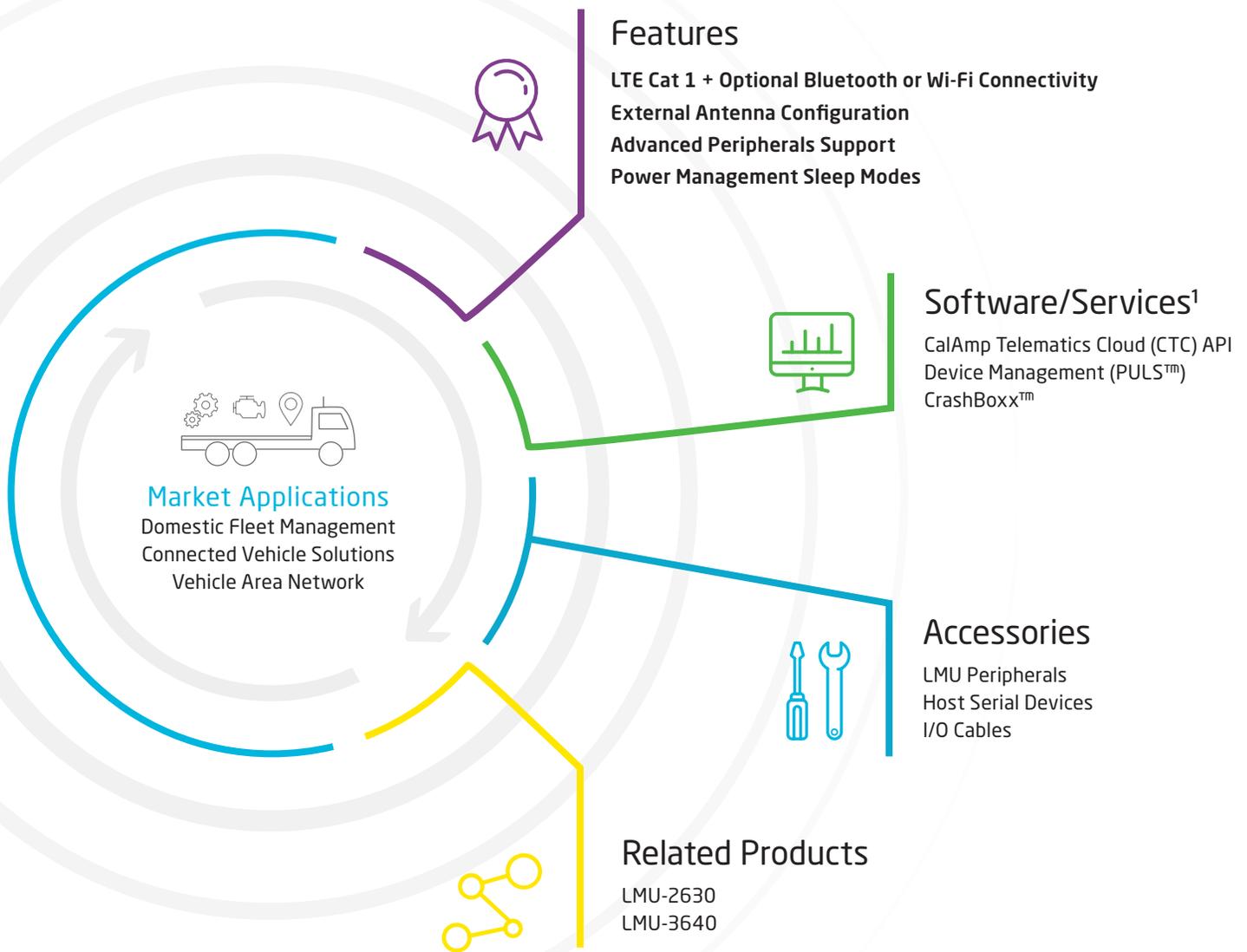


# LMU-4233™



## A Full-Featured Telematics Gateway Built for Optimal Flexibility

The LMU-4233™ is a full-featured telematics gateway designed to support enterprise applications requiring a range of wireless and peripheral connectivity options. Equipped with built-in ECU (Engine Control Unit) vehicle interface technologies for both light and heavy duty vehicles.



L4233Q319DS V2

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<sup>1</sup> Subscription service enabled. Contact sales rep for additional details.

# Cal/Amp®

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# LMU-4233™ 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	AWS 1700 (B4)/700 (B13) MHz
<b>Global Variant</b>	
HSPA/UMTS	800 (VI)/850 (V)/900 (VIII)/1800 (III)/1900 (II) MHz
GSM/GPRS	850/900/1800/1900 MHz
<b>Americas Variant</b>	
HSPA/UMTS	850 (V)/1900 (II) MHz
GSM/GPRS	850/1900 MHz

## Data Support

SMS, TCP, UDP Packet Data

## Satellite Location (GNSS)

<b>Constellation Support</b>	Hybrid GPS, GLONASS, SBAS Engine (WAAS, EGNOS, MSAS)
<b>Channels</b>	55 Channel
<b>Tracking Sensitivity</b>	-162 dBm
<b>Acquisition Sensitivity</b>	-156 dBm (hot start) -148 dBm (cold start)
<b>Location Accuracy</b>	~2.0m CEP Open Sky (GPS SBAS 24 hours static)
<b>Location Update Rate</b>	Up to 4 Hz
<b>AGPS Location assistance capable</b>	

## Comprehensive I/O

<b>Ignition Inputs</b>	1 fixed bias
<b>Digital Inputs</b>	7 (high/low selectable 0-30 VDC)
<b>Digital Outputs</b>	5 (open collector relay 150mA)
<b>Current Limited Outputs</b>	2 (20mA)
<b>Analog Inputs</b>	4 (0-30VDC, +/-0.1V accuracy)
<b>Accelerometer</b>	Built in, triple-axis (driver behavior, impact detection, motion sensing, tilt detection)
<b>1-Wire® Interface</b>	2 (driver ID, temperature sense)
<b>Status LEDs</b>	2 (GPS, cellular)

## Certifications

**Industry Certifications** FCC, CE, IC, PTCRB, RoHS

## Cloud/Software Services<sup>1</sup>

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

## Edge Intelligence<sup>1</sup>

<b>PEG™</b>	Update device functionality or develop new on the edge applications
<b>EdgeApp SDK</b>	Write custom embedded app for edge intelligence

### 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](http://www.P65Warnings.ca.gov)

## Electrical

<b>Operating Voltage</b>	12/24 VDC Vehicle Systems 9-30 VDC (start-up, operating) 7-32 VDC (momentary)
<b>Power Consumption</b>	Typical 4mA @ 12V (deep sleep) Typical 10mA @ 12V (sleep on network w/ SMS) Typical 20mA @ 12V (sleep on network w/ GPRS) Typical 70mA @ 12V (active tracking)

## Battery Pack

<b>Battery Capacity</b>	Up to 1000 mAh
<b>Battery Technology</b>	Lithium-Ion
<b>Charging Temperature</b>	0° to +45° C

## Environmental

<b>Temperature</b>	-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 with battery)
<b>Humidity</b>	85% RH @ 50° C non-condensing
<b>Shock and Vibration</b>	U.S. Military Standards 202G, 810F, SAE J1455
<b>ESD</b>	IEC 61000-4-2 (4KV Test)

## Physical/Design

<b>Dimensions</b>	4.3 x 3.2 x 0.86" (110 x 81 x 22mm)
<b>Weight</b>	4 oz. (113 g)

## Connectors/SIM Access

<b>External Cellular</b>	SMC
<b>External GPS</b>	SMA (with tamper monitoring, 3.0V)
<b>Power, Ground, Ignition, A/D</b>	4-Pin Molex
<b>I/O Connection</b>	Two 5-Pin Molex
<b>Cellular Antenna</b>	22-Pin Molex
<b>Wi-Fi Option</b>	RP-SMA
<b>Vehicle BUS</b>	DB-15
<b>SIM Access</b>	Internal (2FF SIM)

## Interface Standards

<b>Bluetooth</b>	4.0 Dual-Mode Classic, BLE
<b>Wi-Fi</b>	a/b/g/i client mode
<b>jPOD™ Truck</b>	J1939, J1708
<b>vPOD Light Duty</b>	J1850 PWM, J1850 VPW ISO 9141-2, KWP 2000, ISO-15765, CAN

## Product Options

External antennas (GPS, cellular, combined GPS/cellular)
Serial adapter cable RS-232 8-wire (PPP, AT Commands, NMEA GPS output)
jPOD dongle for truck ECU interface
Connectorized I/O wiring harness
Built-in or external backup batteries

<sup>1</sup>Subscription service enabled. Contact sales rep for additional details.