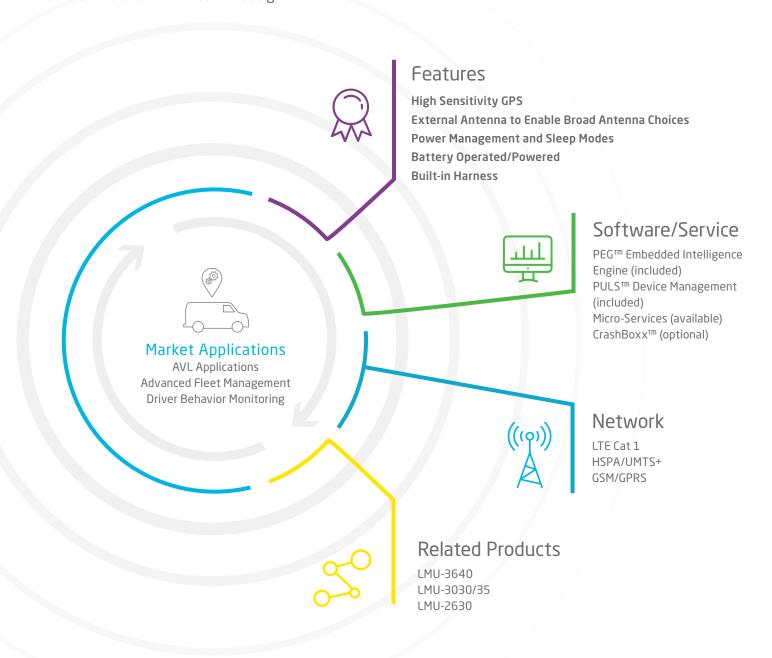
LMU-2631™



Leading Edge Fleet Tracker for Advanced Fleet Management with Extensive Capabilities and External Antenna

The LMU-2631[™] is a fleet tracking device incorporating a powerful processing engine, LTE Cat 1 network connectivity and built-in triple-axis accelerometer for measuring driver behavior and vehicle impact with a versatile external antenna design.



LMU-2631[™] 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

Americas Variant

HSPA/UMTS 850 (V)/1900 (II) MHz
GSM/GPRS 9000/1900 MHz

Global Variant

GSM/GPRS 850/900/1800/1900 MHz

Data Support

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

Satellite Location (GNSS)

Constellation Support Hybrid GPS, SBAS Engine (WAAS, EGNOS, MSAS)

Channels 31 Channel

Tracking Sensitivity -162 dBm

Acquisition Sensitivity -156 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

Ignition Inputs 1 fixed bias

Digital Inputs 4 (high/low bias selectable 0-32 VDC)

Digital Outputs 3 (open collector relay 150mA)

Analog Inputs 1 (external ADC input 0-32 VDC)

Accelerometer Built in, triple-axis (driver behavior, impact detection,

motion sensing, tilt detection)

Serial Interface 2 TTL Ports

DC Power Output 1 (switched 3.3V)

1-Wire® Interface 1 (driver ID/temperature sense)

Status LEDs 2 (GPS, cellular)

Certifications

Industry Certifications FCC, IC, PTCRB, RoHS

Electrical

Operating Voltage 12/24 VDC Vehicle Systems

9-30 VDC (start-up, operating)

7-32 VDC (momentary)

Power Consumption Typical <3mA @ 12V (deep sleep)

Typical 25mA @ 12 V (radio-active sleep)

Typical 50mA @ 12 V (GPS tracking and cell idle)

Battery Pack

Battery Capacity Up to 1000 mAh

Battery Technology Lithium-Ion

Charging Temperature 0° to +45° C

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 with battery)

Humidity 95% RH @ 50° C non-condensing

Shock and Vibration U.S. Military Standards 202G, 810F, SAE J1455

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

Physical/Design

Dimensions 3.7 x 2.0 x 0.8" (94 x 53 x 20 mm)

Weight 2.8 oz. (80 g) (w/ 1000 mAh battery)

Connectors/SIM Access

Power, I/O 20-Pin 3mm Pitch

GPS Antenna External (w/ tamper monitoring, 3V)

Cellular Antenna External

SIM Access Internal (2FF SIM)

Embedded Intelligence Engine

PEGTM Update device functionality or develop new on the edge

applications

Device Management

PULSTM Monitor, manage, upgrade firmware, configure and

troubleshoot devices remotely

Product Options

I/O wiring harness

200 mAh battery

IP66 enclosure

Customized hardware and software development