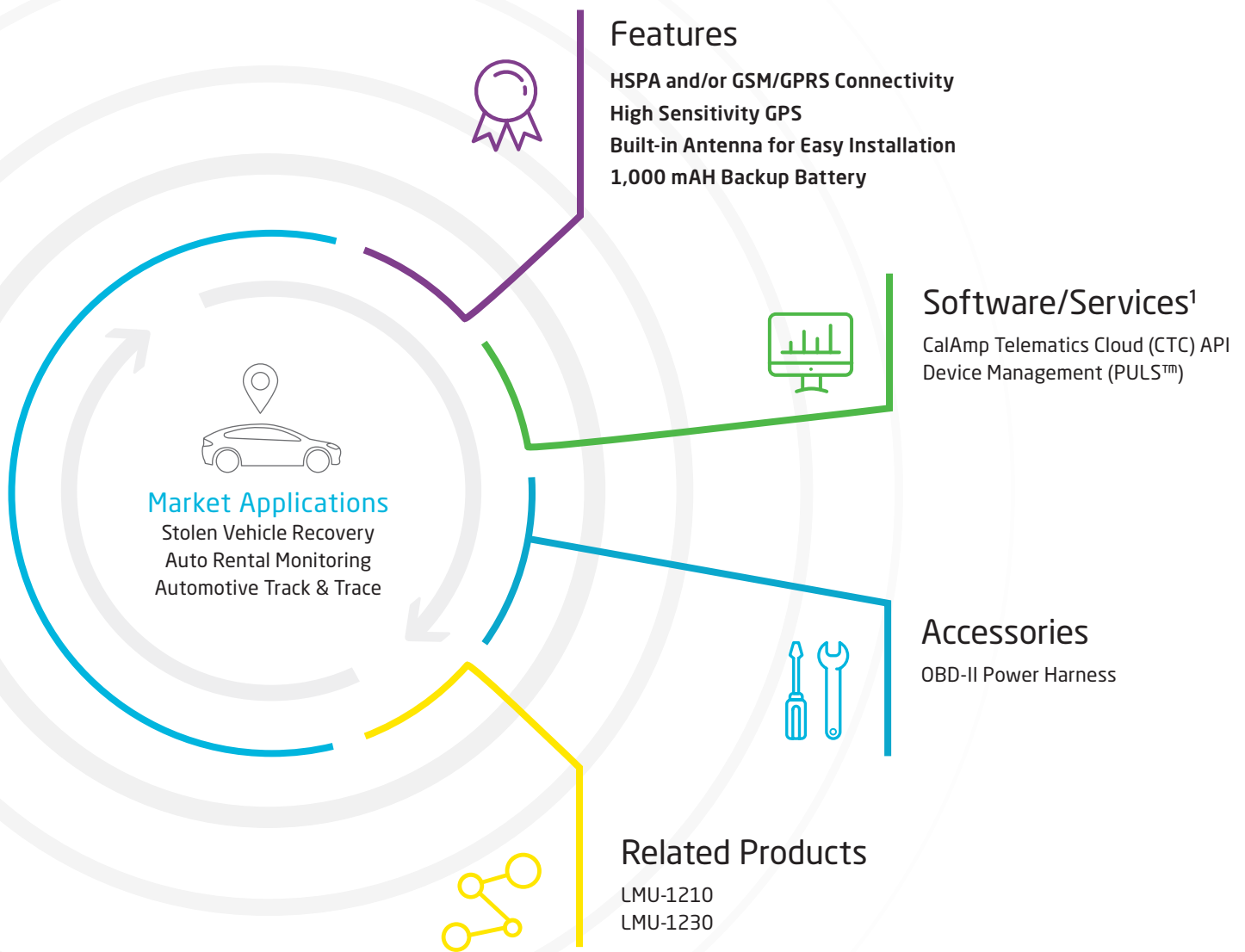


LMU-1220™



A Flexible Vehicle Tracker with Back-Up Battery for Reliable Commercial Deployment

The LMU-1220™ is a compact device made for easy installation and is ideal for basic fleet, automotive insurance, stolen vehicle, vehicle finance, auto rental and other vehicle track and trace applications where an internal backup battery is necessary.



L1220Q419DS V1

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

Cal/Amp®

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LMU-1220™ Technical Specifications

Cellular/Network

Global Variant I	
HSPA/UMTS	800 (VI)/850 (V)/900 (VIII)/1700 (IV)/1900 (II)/2100 (I) MHz
GSM/GPRS	850/900/1800/1900 MHz
Global Variant II	
GSM/GPRS	850/900/1800/1900 MHz

Data Support

SMS, UDP Packet Data

Satellite Location (GNSS)

Constellation Support	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

Comprehensive I/O

Ignition Inputs	1 fixed bias
Digital Inputs	3 (high/low bias selectable 0-32 VDC)
Digital Outputs	4 (open collector relay 150mA)
Analog Inputs	1 (external ADC input 0-32 VDC)
Status LEDs	2 (GPS, cellular)
Serial Interface	1 TTL Port
DC Power Output	1 (switched 3.3V)
Accelerometer	Built-in, triple-axis (motion sensing, tilt detection)

Certifications

Industry Certifications FCC, IC, 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™ Behavioral Scripting (8-bit support)

Electrical

Operating Voltage	9-16 VDC Vehicle Systems 9-32 VDC (startup, operating) 7-32 VDC (momentary)
Power Consumption	Typical 2mA @ 12V (deep sleep) Typical 50mA @ 12V (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) -10° to +25° C (long term storage w/ battery)
Humidity	85% RH @ 50° C non-condensing
Shock and Vibration	U.S. Military Standard 202G, SAE J1455
ESD	IEC 61000-4-2 (4KV test)

Physical/Design

Dimensions	2.1 x 3.5 x 0.9" (54 x 89 x 24 mm)
Weight	2.9 oz. (82 g)

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