

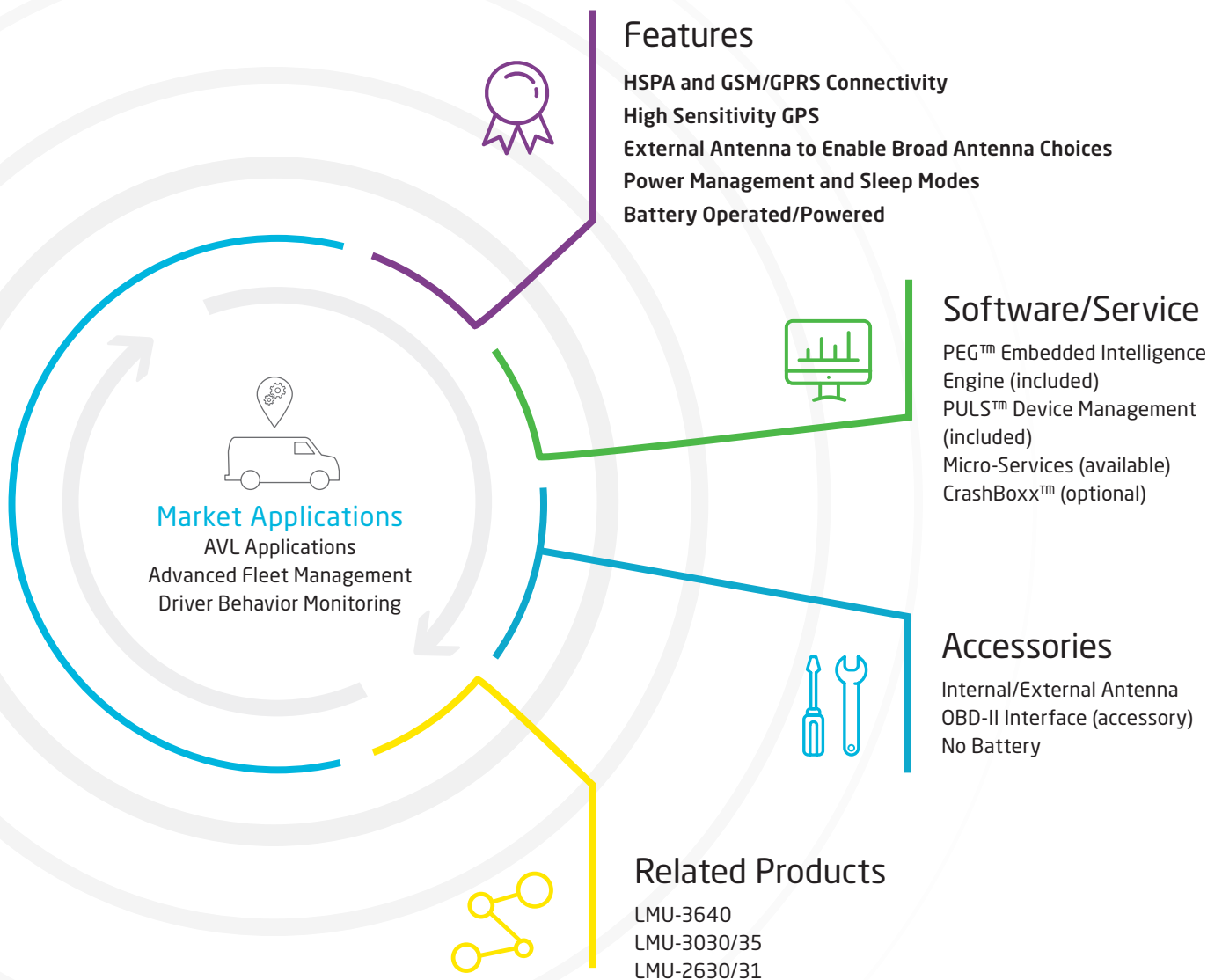
LMU-2720™

External Antenna



Leading Edge Fleet Tracker for Advanced Fleet Management with Extensive Capabilities

The LMU-2720™ is a fleet tracking device incorporating a powerful processing engine, HSPA Penta-Band network connectivity and built-in triple-axis accelerometer for measuring driver behavior and vehicle impact. Best suited for AVL and fleet applications.



LMU-2720™ External Antenna Technical Specifications

Cellular/Network

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

Data Support

SMS, UDP Packet Data, CalAmp Telematics Cloud API

Satellite Location (GNSS)

Constellation Support	Hybrid GPS, GLONASS, SBAS Engine (WAAS, EGNOS, MSAS)
Channels	56 Channel
Tracking Sensitivity	-162 dBm
Acquisition Sensitivity	-147 dBm
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

Digital Inputs	5 (1 fixed bias low, 4 programmable bias)
Digital Outputs	3 relay driver (200mA)
Analog Inputs	2 (1 interval VCC monitor, 1 external A/D input)
Accelerometer	Built in, triple-axis (driver behavior, impact detection, motion sensing, tilt detection)
Serial Interface	2 (1 TTL serial, 1 switched power TTL)
1-Wire® Interface	1 (driver ID/temperature sense)
Status LEDs	2 (GPS, cellular)

Certifications

Industry Certifications FCC, CE, IC, PTCRB, RoHS

Device Management

PULS™ Monitor, manage, upgrade firmware, configure and troubleshoot devices remotely

Embedded Intelligence Engine

PEG™ Update device functionality or develop new on the edge applications

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 <10mA @ 12V (sleep on network w/ SMS) Typical <20mA @ 12V (sleep on network w/ GPRS) Typical <70mA @ 12V (active tracking)

Battery Pack

Battery Capacity	200 mAh or 1000 mAh
Battery Technology	Lithium-Ion
Charging Temperature	0° to +45° C

Environmental

Temperature	-30° to +75° C (connected to primary power) -40° to +85° C (storage)
Humidity	95% RH @ 50° C non-condensing
Shock and Vibration	U.S. Military Standards 202G, 810F, SAE J1455
ESD	SAE J1113, FCG-Part 15B

Physical/Design

Dimensions	90 x 54 x 20 mm
Weight	74 g (external)

Connectors/SIM Access

Connector Type	20-pin Molex-type fused power harness
GPS Antenna	External
Cellular Antenna	External
SIM Access	Internal (2FF SIM)

Product Options

Driver ID/temperature sensing with 1-wire® protocol
External A/D input
NMEA data via serial
Internal or External GPS and cellular antennas
Serial cables
jPOD™ truck ECU interface
Garmin®, Magellan and other advanced peripherals support

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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