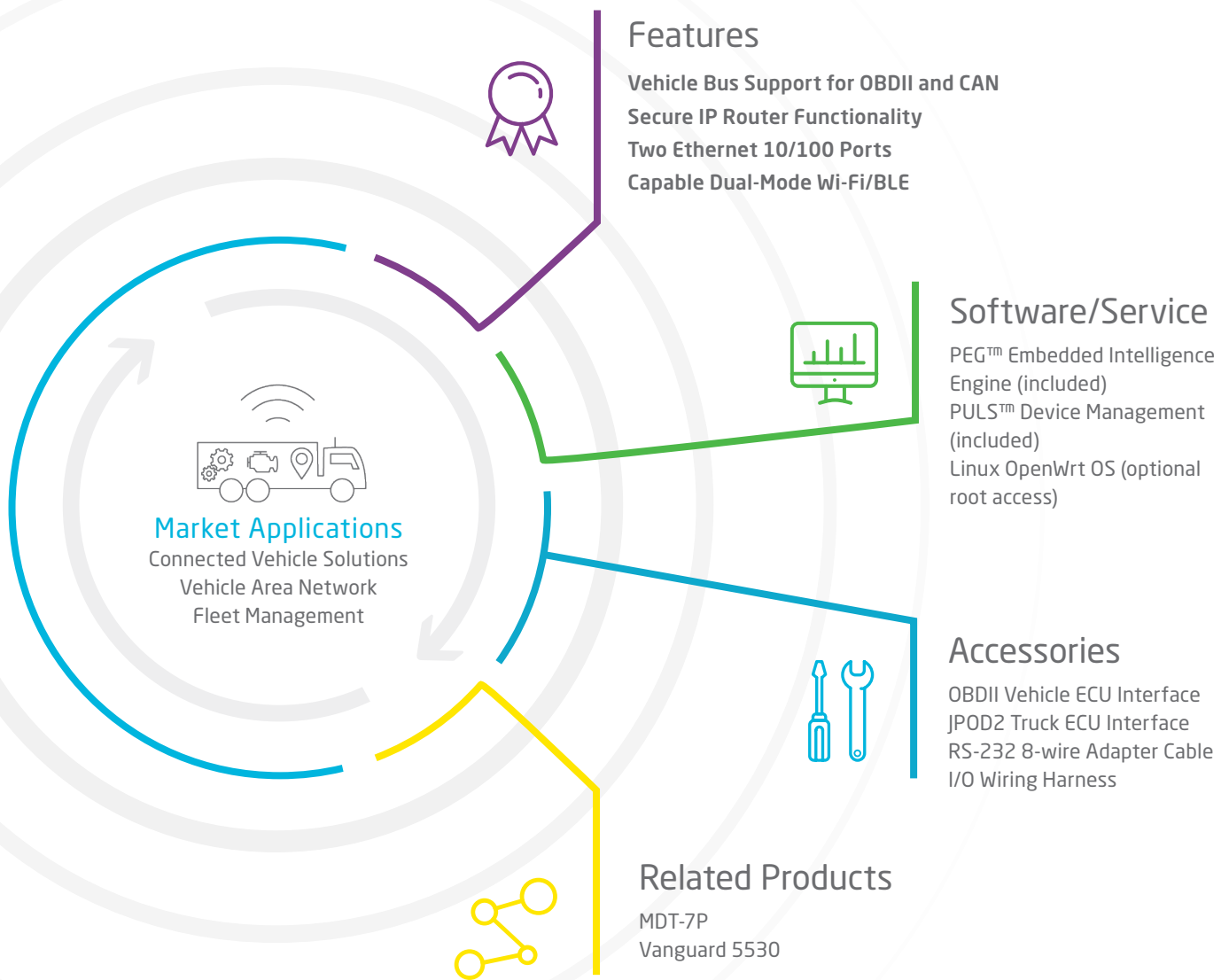


LMU-5531™



All-In-One Mobile Communications Solution Tailored for Fleet Telematics and Vehicle Applications

The LMU-5531™ is a feature-rich LTE telematics router that comes equipped with a powerful processor, capable Linux platform featuring CalAmp's PEG™ engine and embedded APP enabling intelligence at the edge. A built-in 3-axis accelerometer, multiple power management sleep modes, leading GPS sensitivity tracking and proven vehicle bus capabilities support advanced connected vehicle solutions.



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L5531Q319DS V1

Cal/Amp®

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LMU-5531™ Technical Specifications

Cellular/Network

North American Variant I

LTE Cat 3	1900 (B2)/AWS 1700 (B4)/850 (B5)/700 (B12) MHz
HSPA/UMTS	850 (V)/AWS 1700 (IV)/1900 (II) MHz
GSM/GPRS	850/900/1800/1900 MHz

North American Variant II

LTE Cat 1	AWS 1700 (B4)/700 (B13) MHz
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Global Variant

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

Data Support

TCP/IP, UDP/IP, DHCP, HTTP, IP Router, PPP, HTTP web server, Telnet DHCP server, DDNS, DDNS Client, NAT, NMEA, TAIP, TSIP, TFTP, IP port forwarding, 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 -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

Digital Inputs 7 (high/low selectable 0-30 VDC)

Digital Outputs 5 relay driver outputs (200mA)
2 low current LED outputs (20mA)

Analog Inputs 5 general purpose A/D (0-30 VDC)

Accelerometer Built in, triple-axis (driver behavior, impact detection, motion sensing, tilt detection)

1-Wire® Interface 2 (driver ID, temperature sense)

Status LEDs 4 (Pwr, COMM, GPS, Wi-Fi, BT)

Serial Interface 1 DB-9 (RS232/RS485), 1 5-Pin TTL level switch power

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)
8-32 VDC (momentary)

Power Consumption <2mA @ 12V (deep sleep)
160mA @ 12V (idle on network)
270mA @ 12V (active tracking)

Battery Pack

Battery Capacity Up to 1000 mAh

Battery Technology Lithium-Ion

Charging Temperature 0° to +45° C

Environmental

Temperature -30° to +70° 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 (4 KV Limit)

Physical/Design

Dimensions 5.8 x 4.0 x 1.2" (146 x 102 x 40 mm)

Weight 8.0 oz. (227g)

Connectors/SIM Access

Power, Ignition, ADC 4-Pin Connector

I/O 22-Pin Connector

GPS Antenna External

SIM Access External

Ethernet 2x 10/100 Base-T RJ45

USB On-the-go (mini), Host Type A

Interface Standards

Bluetooth 4.0 Dual-Mode Classic, BLE

Wi-Fi 802.11 b/g/n
Supports access point and/or client operations
Supports internal/external antenna

Product Options

All necessary antennas (GPS, cellular, combined GPS/cellular)

Serial adapter cable RS-232 8-wire (PPP, AT commands, NMEA GPS output)

Internal/External/Optional jPOD™ truck ECU interface

Connectorized I/O wiring harnesses

Customized hardware and software development