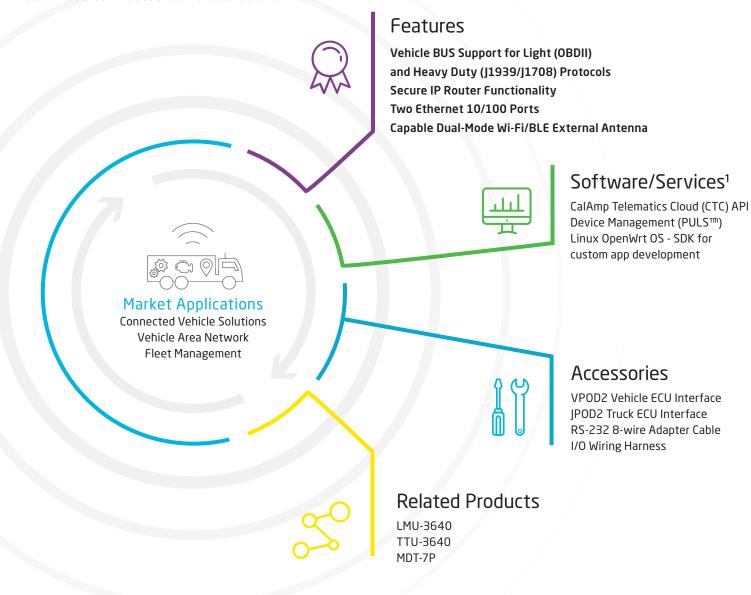
LMU-5541TM LTE CAT-4



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

The LMU-5541[™] LTE CAT-4 is a feature-rich LTE telematics router that comes equipped with a powerful processor, capable Linux platform featuring CalAmp's PEG[™] engine and embedded development environment, 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.







LMU-5541™ LTE CAT-4 Technical Specifications

Cellular/Network

Global Variant

LTE CAT-4 2100 (B1)/1900 (B2/B25/B39)/1800 (B3)/AWS 1700 (B4)/850 (B5/

B26)/2600 (B7)/900 (B8)/700 (B12/B13/B28)/850 (B18/B19)/800

(B20)/2600 (B38)/2300 (B40)/2500 (B40/B41) MHz

HSPA/UMTS 2100 (I)/1900 (II)/AWS 1700 (IV)/850 (V)/800 (VI, XIX)/900 (VIII) 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

Satellite Location (GNSS)

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

Channels 55 Channel

Tracking Sensitivity -167 dBm

Acquisition Sensitivity -156 dBm (hot start)

-148 dBm (cold start)

Location Accuracy ~2.0m CEP Open Sky (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)

1 low bias ignition

Digital Outputs 7 relay driver outputs (200mA)

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 5 (Pwr, COMM, GPS, Wi-Fi, BT)

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

Certifications

Industry Certifications FCC, CE, IC, PTCRB, RoHS

Cloud/Software Services¹

PULSTM Monitor, manage, upgrade firmware, configure and troubleshoot

devices remotely

CTC Device data stream via RESTful APIs

Edge Intelligence¹

PEGTM Update device functionality or develop new on the edge applications

Subscription service enabled. Contact sales rep for additional details.

CALIFORNIA PROPOSITION 65



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

Electrical

Operating Voltage 12/24 VDC Vehicle Systems

9-30 VDC (start-up, operating)

8-32 VDC (momentary)

Power Consumption Typical <2mA @ 12V (deep sleep)

Typical 20mA @12V (radio-active sleep)

Typical ~300mA @ 12V (active tracking w/GPS and cell enabled)

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 85% 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 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

Celllular Antenna External

Wi-Fi Antenna External

Cellular Diversity Antenna External

SIM Access Internal

Ethernet 2x 10/100 Base-T RJ45

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

Interface Standards

Bluetooth Dual-Mode; Bluetooth classic, BLE 4.2

Wi-Fi 802.11 a/b/g/n/ac (2.4 GHz & 5GHz) (1x1)
Supports access point and/or client operations

(10 concurrent users)

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