The LMU-3640 is a next generation telematics gateway that includes a range of wireless and peripheral connectivity options and is equipped with CalAmp's purpose built vehicle interface technologies for both light and heavy duty vehicles.

**COMPETITIVE TECHNOLOGY, COMPETITIVE EDGE**

The LMU-3640 is designed to support enterprise customers requiring full set of fleet features with cellular, WiFi, Bluetooth, and satellite connectivity options, plus a triple-axis accelerometer that detects and acts on hard braking, aggressive acceleration, or vehicle impacts. The built-in ECU (Engine Control Unit) interface reads and transmits engine condition and performance data such as engine temperature and fault codes from both heavy duty and light duty vehicles to provide the best possible real-time picture of vehicle health. In addition, it supports separate ARM cortex micro-controller to support hosted application features.

**SMART VEHICLE TECHNOLOGY**

The LMU-3640 family of devices are enabled with PEG™, CalAmp's proprietary programmable event generator to continuously monitor the vehicle operating environment and respond instantly to pre-defined and configurable threshold conditions such as motion, location, geo-zone crossings and custom parameters.

**OVER-THE-AIR SERVICEABILITY**

The LMU-3640 also leverages PULS™, CalAmp's industry leading over-the-air device management and maintenance software. Configuration parameters, PEG rules, and firmware can all be updated over-the-air. PULS offers out-of-the-box hands free configuration and automatic post-installation upgrades. You can also monitor unit health status across your customers' fleets to quickly identify issues before they become expensive problems.
LMU-3640 SPECIFICATIONS

GENERAL
Communication Modes LTE/UMTS/HSPA/GSM/GPRS/EDGE
Messages 20,000 buffered messages
Location Technology 50+ channel GPS (with SBAS)
Geo-Fence 32 radial and 32 polygonal geo-fences on-board device, user definable
Configuration Automatic over-the-air firmware and configuration updates via PULS™

GPS
Location Technology GPS, GLONASS, Galileo
Enhancement Technology SBAS: WAAS, EGNOS, MSAS, GAGAN
Tracking Sensitivity -162 dBM
Acquisition Sensitivity -148 dBM
Location Accuracy 2.0m CEP
AGPS capable

CELLULAR
Data Support LTE/UMTS/HSPA/GSM/GPRS
North America AT&T Variant:
4G LTE Bands 2, 4, 5 and 17
3G UMTS/HSPA 850, 1900 MHz
North America Verizon Variant:
4G LTE Bands 2, 4, and 13
European/Africa/Asia Variant:
3G UMTS/HSPA 800, 850, 900, 1700, 1900, and 2100MHz
2G GSM/GPRS 850, 900, 1800, 1900

COMPREHENSIVE I/O
Ignition Input 1 fixed bias
Digital Inputs 4 (high/low selectable 0-30 VDC)
Digital Outputs 3 (open collector relay 150mA)
A/D Inputs 2 (0-30VDC, +/-0.1V accuracy)
1-Wire® Interface 1 (driver ID, temperature sense)
Power Output 1 switched V_IN
Status LEDs 1 (driver ID, temperature sense)

DEVELOPMENT SUPPORT OPTIONS
Customized hardware and software development available on request

ELECTRICAL
Operating Voltage 9-30 VDC (Start-up, Operating)
7-32 VDC (Momentary)
Power Consumption 7 mA @ 12V (deep sleep)
20mA @ 12V (idle on network)
150mA @ 12V (active tracking with VBUS active)
Back Up Battery (Optional) Lithium-Ion 1000mAh

ENVIRONMENTAL
Temperature* -30° to +75° C (connected to primary power)
-40° to +85° C (storage)
Humidity 95% R.H. @ 50° C non-condensing
Shock and Vibration U.S. Military Standards 202G and 810F, SAE J1455
EMC/EMI SAE J1113

PHYSICAL
Dimensions 5.7 x 2.1 x 1.3” (145 x 55 x 32mm)
Weight 5 oz, (140 g)

CONNECTORS, SIM ACCESS
Vehicle BUS I/F 16-Pin Molex
Power, I/O 24-Pin Molex
Internal SIM Access

INTERFACE STANDARDS
Bluetooth 4.0 Dual-Mode Classic, BLE
WiFi a/g/b client mode
Heavy Duty Truck Data J1708, J1939
Light Duty Vehicle Data J1850 PWM, J1850 VPW
ISO 9141-2, KWP 2000, ISO-15765, CAN

CERTIFICATIONS
Fully certified FCC, CE, IC, PTCRB, Applicable Carriers

MOUNTING
Screw mounting bracket
Tie-wrap, adhesive, or velcro

OPTIONAL FEATURES/FUNCTIONS
RS-232 serial adapter cable
jPOD dongle for truck ECU interface
Connectorized I/O wiring harness
Built-in or external backup batteries

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About CalAmp
CalAmp (NASDAQ: CAMP) is a proven leader in providing wireless communications solutions to a broad array of vertical market applications and customers. CalAmp’s extensive portfolio of intelligent communications devices, robust and scalable cloud service platform, and targeted software applications streamline otherwise complex machine-to-machine (M2M) deployments. These solutions enable customers to optimize their operations by collecting, monitoring and efficiently reporting business-critical data and desired intelligence from high-value remote assets. For more information, please visit www.calamp.com.

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