LMU-3640Tm

Next Generation Telematics Gateway With Heavy and Light Duty Vehicle Interface

Cal/Amp[®]

The LMU-3640TM 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.

Experience The Advantage

- LTE cellular configurations
- Optional Bluetooth or Wi-Fi and Bluetooth connectivity
- Integrates both heavy duty or light duty vehicle ECU interfaces
- Serial ports with switched power
- Comprehensive I/O system with 5 inputs, 3 outputs, 2 A/D inputs, and 1 1-Wire™ interfaces
- High performance internal antennas
- Built-in triple-axis accelerometer for driver behavior, motion sensing, hard braking, impact detection
- Dual reporting 20,000 buffered message log
- 21 built-in geo-fences, plus any combination of circle or polygon zones, up to 5400 points
- 1000 mAh back-up battery
- Automatic, over-the-air configuration and firmware download
- MDT-7P Tablet, Magellan®, Garmin®, TomTom® and other advanced peripherals supported

Low power sleep modes

Competitive Technology, Competitive Edge

The LMU-3640[™] is designed to support enterprise customers requiring full set of fleet features with cellular, Wi-Fi and bluetooth 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 (Advanced RISC Machine) 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, geozone crossings and custom parameters.

Over-The-Air Serviceability

The LMU-3640TM also leverages CalAmp's management and maintenance system, PULSTM (Programming, Updates, and Logistics System), for over-the-air configuration parameters, PEG rules and firmware. This out-of-the-box hands free configuration and automatic post-installation upgrades can monitor unit health status across your fleets to identify issues before they become expensive problems.

LMU-3640TM Specifications

LTE

-148 dBm

2.0m CEP

General

Communication Modes Location Technology Configuration

GPS

Location Technology Enhancement Technology Tracking Sensitivity Acquisition Sensitivity Location Accuracy AGPS capable

Cellular/Bands

Operating Bands (MHz)

North America Variant I: 4G LTE CAT-1 3G UMTS/HSPA

North America Variant II: 4G LTE CAT-1

AWS 1700 (B4)/700 (B13)

5 (high/low selectable 0-30 VDC)

4 (open collector relay 150 mA)

2 (0-30VDC, +/-0.1V accuracy)

1 (driver ID, temperature sense)

4 (GPS, cellular, VBUS, LAN)

1900 (B2)/850 (B5)

1900 (B2)/AWS (B4) /850 (B5)/ 700 (B12)

SMS, UDP, TCP

1 fixed bias

1 switched V_IN

Comprehensive I/O

Ignition Inputs Digital Inputs Digital Outputs A/D Inputs 1-Wire® Interface Power Output Status LEDs

Data Support

Certifications

FCC, IC, PTCRB, Applicable Carriers

Configuration updates via PULS™ GPS, GLONASS, Galileo SBAS: WAAS, EGNOS, MSAS, GAGAN -162 dBm

Automatic over-the-air firmware and

50+ channel GPS (with SBAS)

Electrical

Operating Voltage Power Consumption

Environmental

Temperature

Humidity Shock and Vibration

Physical

Dimensions Weight Integrated Buzzer 5.7 x 2.1 x 1.3" (145 x 53 x 33 mm) 5 oz (142 g)

95% R.H. @ 50° C non-condensing

9-30 VDC (Start-up, Operating)

7 mA @ 12V <500 uA (deep sleep)

150 mA @ 12V (active tracking with VBUS active)

-30° to +75° C (connected to primary power)

-10° to +60° C (operating on internal battery)

0° to +30° C (long term storage with battery)

U.S. Military Standards 202G and 810F, SAE

20 mA @ 12V (idle on network)

7-32 VDC (Momentary)

-40° to +85° C (storage)

J1455

16-Pin Molex

24-Pin Moley

Internal

Connectors, SIM Access

Vehicle BUS I/F Power, I/O SIM Access

Interface Standards

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

Product Options

RS-232 serial adapter cable I/O wiring harness 1000 mAh Lithium-Ion back up battery Customized hardware and software development available on request

About CalAmp

CalAmp (NASDAQ: CAMP) is a telematics pioneer leading transformation in a global connected economy. We help reinvent businesses and improve lives around the globe with technology solutions that streamline complex IoT deployments and bring intelligence to the edge. Our software applications, scalable cloud services, and intelligent devices collect and assess business-critical data from mobile assets, cargo, companies, cities and people. We call this The New How, powering autonomous IoT interaction, facilitating efficient decision making, optimizing resource utilization, and improving road safety. CalAmp is headquartered in Irvine, California and has been publicly traded since 1983. LoJack is a wholly owned subsidiary of CalAmp. For more information, visit calamp.com, or LinkedIn, Twitter, YouTube or CalAmp Blog.

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