

FEATURES

- » 4G LTE
 - CAT 1: 2/4/5/12/13
- » BUS COMPATIBILITY
 - J1939
 - J1708
 - J1850
- » 1000 mAh BATTERY
- » GPIO PORTS
- » 8 INPUTS
- » 5 OUTPUTS
- » 4 A/D INPUTS
- » 1-WIRE™ INTERFACE
- » ECU INTERFACE
- » 3-AXIS ACCELEROMETER
- » PEG™ CONFIGURABLE
- » PULS™ DEVICE MANAGEMENT

Benefits:

- Location based services
- **ELD Compatible**
- 20,000 buffered logs
- Backup power
- Engine Diagnostic
- Driver Behavior Capabilities
- PTO / Event configuration
- Over-the-Air Device Management



MiFleet Commercial Fleet:

CalAmp LMU-4233 | LTE

The LMU-4233™ is a full-featured telematics gateway designed to support enterprise applications requiring a range of wireless and peripheral connectivity options. Equipped with built-in ECU (Engine Control Unit) vehicle interface technologies for both light and heavy duty vehicles.

Heavy Duty



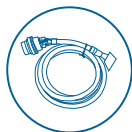
Optional jPOD™ ECU (Engine Control Unit) interface **reads** and transmits **heavy-duty engine condition** and **performance data** such as **engine temperature** along and **fault codes** to provide the best possible real-time vehicle health.

ELD Ready

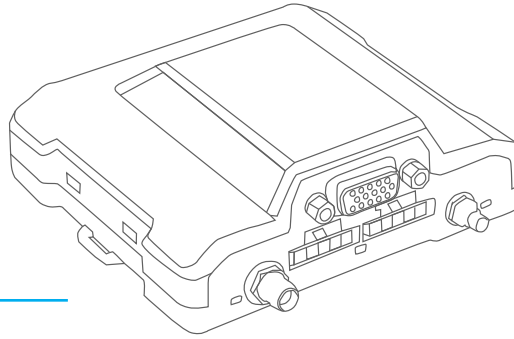


Device is used to **electronically record a driver's Record of Duty Status**, which replaces the paper logbook some drivers currently use to record their **compliance with Hours of Service requirements**.

Multi Connection Options



By connecting device directly into the engine you can **obtain valuable data points and be alerted** when they happen.



DATA SUPPORT

SMS, TCP, UDP Packet Data, CalAmp Telematics
Cloud API.

CELLULAR/NETWORK

North American Variant I

LTE Cat 1	1900 (B2)/AWS 1700 (B4)/850 (B5)/700 (B12) MHz
HSPA/UMTS	850 (V)/1900 (II) 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)/1800 (III)/1900 (II) MHz
GSM/GPRS	850/900/1800/1900 MHz

Americas Variant

HSPA/UMTS	850 (V)/1900 (II) MHz
GSM/GPRS	850/1900 MHz

SATELLITE LOCATION (GNSS)

Constellation Support	Hybrid GPS, GLONASS, SBAS Engine (WAAS, EGNOS, MSAS)
Channels	55 Channel
Tracking Sensitivity	-162 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

Ignition Inputs	1 (fixed bias)
Digital Inputs	7 (high/low selectable 0-30 VDC)
Digital Outputs	5 (open collector relay 150mA)
Current Limited Outputs	2 (20mA)
Analog Inputs	4 (0-30VDC, +/-0.1V accuracy)
Accelerometer	Built in, triple-axis (driver behavior, impact detection, motion sensing, tilt detection)
1-Wire Interface	2 (driver ID, temperature sense)
Status LEDs	2 (GPS, cellular)

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 4mA @ 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	Up to 1000 mAh
Battery Technology	Lithium-ion
Charging Temperature	0° to +45° C

ENVIRONMENTAL

Temperature	-30° to +75° C (connected to primary power) -10° to +85° C (operating on internal battery) -20° to +25° C ≤ 6 months (long term storage with battery)
Humidity	95% RH @ 50° C non-condensing
Shock and Vibration	U.S. Military Standards 202G, SAEJ1455
ESD	SAE J1113-13 (4 KV Limit)

PHYSICAL/DESIGN

Dimensions	4.3 x 3.2 x 0.86" (110 x 81 x 22mm)
Weight	4 oz. (113 g)

INTERFACE STANDARDS

Bluetooth	4.0 Dual-Mode Classic, BLE
WiFi	a/b/g/i client mode
jPOD Truck	J1939, J1708
vPOD Light Duty	J1850 PWM, J1850 VPW ISO 9141-2, KWP 2000, ISO-15765, CAN

CONNECTORS & SIM ACCESS

External Cellular	SMC
External GPS	SMA (w/ tamper monitoring, 3.0v)
Power, Ground, Ignition	4-Pin Molex
I/O Connection	Two 5-Pin Molex
Cellular Antenna	RP-SMA
WiFi Option	DC-15
Vehicle BUS	Internal (2FF SIM)
SIM Access	

PRODUCT OPTIONS

External antennas (GPS, cellular, combined GPS/cellular)
Serial adapter cable RS-232 8-wire (PPP, AT Commands, NMEA GPS output)
jPOD dongle for truck ECU interface
Connectorized I/O wiring harness
Built-in or external backup batteries