



LMU-3035

OBD-II Tracking Unit for Fleet Applications



The LMU-3035 is an easy-to-install full featured vehicle tracking device that has been optimized for fleet applications where local speed evaluation is required. Instead of using OBD-II speed parameter data, the LMU-3035 uses GPS speed data for identifying speed triggers and thresholds.

The LMU-3035 is an ideal solution for driver behavior management, auto rental and automotive applications when access to the vehicle diagnostics interface (OBD-II) is required in passenger or light-duty vehicles.

COMPETITIVE TECHNOLOGY, COMPETITIVE EDGE

The LMU-3035 tracking unit from ThinAir features a compact form factor, high-sensitivity GPS for reliable location and tracking, an Onboard Diagnostic interface (OBD-II) for access vehicle diagnostic data, and patented triple-axis accelerometer motion sensing technology for detecting aggressive driving maneuvers such as harsh acceleration, braking and cornering, and high-impact events.

SMART VEHICLE TECHNOLOGY

The LMU-3035 is enabled with ThinAir'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

ThinAir's advanced software, customers can manage devices individually or by groups and configure parameters including scripts and firmware remotely.

ThinAir's software offers out-of-the-box, hands-free configuration and automatic post-installation upgrades to monitor device health status to quickly identify issues before they become expensive problems.



Experience The Advantage

- Optimized for a diverse range of applications
- Reliable self-installation ideal for fleet management applications
- Superior cellular and GPS performance
- OBD-II connector to read vehicle bus data
- Patented triple-axis accelerometer for driver behavior capabilities and impact detection
- Low power sleep modes for longer life
- Optional Bluetooth 4.0 dual mode interface

LMU-3035 SPECIFICATIONS

GENERAL

Communication Modes	GPRS, CDMA, HSPA and LTE Cat 1 options
Location Technology	50+ channel GPS (with SBAS)
Messages	20,000 buffered messages
Geo-Fence	32 PEG-Zones (rectangular/circular)
	1024 Geo-Zones (polygon/circular - 5400)
Configuration	Automatic over-the-air firmware and configuration updates

GPS

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

CELLULAR

Data Support	UDP, TCP/IP and SMS packet data
Operating Bands (MHz band)	
GSM/GPRS	850/900/1800/1900
CDMA/1xRTT	850/1900
HSPA/UMTS	800(VI)/850(V)/900(VIII)/ 1700(IV)/1900(II)/2100(I)
LTE Cat 1	ATT: Bands 2, 4, 5, 12, and 13; plus HSPA fallback (Bands 2 and 5) Verizon: Bands 2, 4, and 13 5.6 Mbps up / 7.2 Mbps down 5 Mbps up / 10Mbps down EDGE/GPRS/GSM quad band

HSPA Data Rates
LTE Cat 1 Data Rates
HSPA Fallback

CERTIFICATIONS

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

DEVELOPMENT SUPPORT OPTIONS

Customized hardware and software development available on request

MOUNTING

Via built-in OBD-II connector
Self-adhesive mounting with OBD-II extender cable

CONNECTORS, SIM ACCESS

SIM Access Internal
Built-in OBD-II/EOBD-II interface via J1962 compliant connector

COMPREHENSIVE I/O

OBD-II Interface	OBD-II interface: J1850 PWM, J1850 VPW, ISO-9141-2, ISO-14230, KWP 2000, ISO-15765 CAN
Outputs	None
Communications Status Serial Port	LED's: OBD, Cellular and GPS
Bluetooth	2-wire TTL Serial Interface (optional fit) Bluetooth 4.0 Dual Mode (optional fit)

ENVIRONMENTAL

Temperature*	-30° to + 75°C (connected to primary power) -40° to + 85°C (storage) Except Battery*
Humidity	95% R.H. @ 50°C non-condensing
Shock and Vibration	SAE J1455
EMC/EMI	CE, GCF, eMark
RoHS Compliant	

PHYSICAL

Dimensions	1.5 x 2.5 x 0.98" (43 x 64 x 25mm)
Weight	1.83oz / 52g (with battery)
Enclosure	Rugged textured plastic enclosure

ELECTRICAL

Operating Voltage	9-16 VDC Vehicle Systems
Sleep Mode	4.9 mA @ 13V (deep sleep) 83 mA @ 13V (normal operation) 66 mA @ 13V (SMS+UDP connection, GPS off) 114 mA @ 13V (continuous transmit)

OBD DATA EXTRACTION

Detection	Automatic detection of vehicle interface services
Extraction	Transmission of standard OBD-II codes, plus manufacturer specific codes which are made available by the embedded OBD firmware stack
Scripts	Download of vehicle specific diagnostic scripts dependent on vehicle model variant

About ThinAir

ThinAir Telematics, based in Houston, Texas, is the premier provider of fleet management and GPS tracking solutions for any size business. Our solutions offer real-time insight into mobile and fixed assets to reduce operational costs and improve customer service, safety, and security. Our intuitive web-based and mobile applications empower users to quickly adopt and realize rapid ROI. For more information, please visit www.thinair.co

ThinAir Telematics LLC

5773 Woodway Dr #100, Houston, TX 77057, USA
T: (888) 285-8780
www.thinair.co

© 2017 ThinAir Telematics LLC
All specifications are typical and subject to change without notice