

LMU-2630 LTE Series

Fleet Tracking Unit with Leading Technologies



The LMU-2630 fleet tracking unit offers leading edge fleet management features including a triple-axis accelerometer for measuring driver behavior and vehicle impacts while offering the high reliability fleet customers demand.

COMPETITIVE PRICE, COMPETITIVE TECHNOLOGY, COMPETITIVE EDGE

The LMU-2630 is a robust, affordable device you can count on for AVL and fleet applications. The LMU-2630 incorporates GSM/GPRS, CDMA 1xRTT, HSPA, or LTE wireless communication along with extra-sensitive GPS, a powerful processing engine, and a triple-axis accelerometer that detects and acts on hard braking, aggressive acceleration, or vehicle impacts.

Internal or external antenna options enables the device to be mounted virtually anywhere for easy, inexpensive installations.

FLEXIBILITY

The LMU-2630 employs ThinAir's industry leading alert engine. This advanced engine monitors external conditions and supports custom application. It continuously monitors the vehicle environment and responds instantaneously to pre-defined threshold conditions related to time, date, motion location, geo-zone, input and other event combinations. This behavior can be programmed by ThinAir before shipment, at a customer facility, or over-the-air once the unit has been fielded.

With ThinAir's advanced engine, your unique application will meet demanding customer requirements and give you a distinct advantage over your competition.

OVER-THE-AIR SERVICEABILITY

Configuration parameters, advanced engine rules, and firmware can all be updated over-the-air.

ThinAir's advanced engine 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.



Experience The Advantage

- GSM/GPRS, CDMA 1xRTT, HSPA or LTE configurations
- Optional bluetooth 4.0 classic or bluetooth low energy
- Internal or external cellular and GPS antenna options for easy installation
- High sensitivity GPS
- Built-in triple-axis accelerometer for driver behavior, motion sensing, hard braking, impact detection
- 20,000 buffered message log
- 32 built-in Geo-fences, plus any combination of circle or polygon zones, up to 5400 points
- 5 inputs/3 outputs/1-wire® interface for driver ID, temperature sensors, and more
- Dual switched power serial ports
- Android™, Magellan®, Garmin®, TomTom® MDTs and other advanced peripherals support
- Optional 1000 mAh or 200 mAh back-up battery
- Power management sleep modes
- Automatic, over-the-air configuration and firmware download

LMU-2630 TECHNICAL SPECIFICATIONS

GENERAL

Communication Modes	GPRS/EDGE/HSPA and CDMA 1xRTT packet data, UDP and SMS
Location Technology	56 channel GPS
Operating Voltage	12 and 24 volt vehicle systems

GPS

Location Technology	GPS; GLONASS and QZSS capable
Enhancement Technology	SBAS: WAAS, EGNOS, MSAS, GAGAN
Receiver Type	56 channels
Tracking Sensitivity	162 dBm
Acquisition Sensitivity -Location	148 dBm
Accuracy	2.0 m CEP
Location Update	Rate up to 10 Hz
Anti-jamming	
AGPS / Location assistance capable	

CELLULAR

Data Support Operating Bands (MHz)	SMS, UDP packet data
GSM/GPRS	850/900/1800/1900
CDMA/1xRTT	850/1900
HSPA/UMTS	850/1900
Transmitter Power	
GSM/GPRS	850/900 32.5 dBm
	1800/1900 29.3 dBm
CDMA/1xRTT	850 24 dBm
	1900 23 dBm
HSPA/UMTS	850/1900 23 dBm
HSPA data rates	5.6Mbps upload/7.2 Mbps download EDGE/GPRS/GSM quad band
HSPA Fallback	EDGE MCS1-MCS9 3GPP Release 6
LTE	700/800/850/1700/1800/1900/2600 MHz (depending on configuration) Downlink up to 5 Mbps (peak burst rate) Uplink up to 5 Mbps (peak burst rate) Fallback to HSPA/CDMA (depending on configuration)

COMPREHENSIVE I/O

Digital Inputs	5 (1 fixed bias low, 4 programmable bias)
Digital Outputs	3 relay driver outputs (200 mA)
Serial Interface	2 power TTL ports
Analog Inputs	2 (1 interval VCC monitor, 1 external A/D input)
1-Wire® Interface Status LEDs	Driver ID, temperature sense GPS and cellular

ENVIRONMENTAL

Temperature*	-30° to +75° C (connected to primary power) -40° to +85° C (storage) Except Battery*
Humidity	95%RH @ 50° C non-condensing
Shock and Vibration	U.S. Military Standards 202G and 810F, SAE J1455
EMC/EMI:	SAE J1113; FCC-Part 15B; Industry Canada; RoHS Compliant

PHYSICAL

Dimensions	3.684 x 2.002 x 0.775" (93.57 x 52.88 x 19.68 mm)
Weight	2.4 oz (68.03 g)

MOUNTING

Tie-wrap, adhesive, or velcro
Screw mounting bracket

CONNECTORS, SIM ACCESS

Connection Type	20-pin Molex-type or captive 2, 6 or 10-wire harness
GPS Antenna	External SMA or internal (w/ tamper monitoring, 3V)
Cellular Antenna SIM Access	External SMC or internal Internal (except CDMA)

CERTIFICATIONS

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

ELECTRICAL

Operating Voltage	7-32 VDC (momentary) 9-30 VDC (start-up, operating)
Power Consumption	<3 mA @ 12V (deep sleep) <10 mA @ 12 V (sleep on network with SMS) <20 mA @ 12 V (sleep on network with UDP) <70mA @ 12 V (active tracking)
Back Up Battery (Optional)	Lithium-Ion 200 mAh or 1000 mAh

DEVELOPMENT SUPPORT OPTIONS

Customized hardware and software development available on request

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

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