

EXPERIENCE THE ADVANTAGE

- 500 message cycles on fully charged battery pack
- 18 months with 0 messages until a final 30 min tracking session
- 3 months with single message cycle per day on fully charged battery pack
- Superior cellular and GPS quality
- IP66 sealed enclosure
- Built-in 3-axis accelerometer for motion sense and impact detection
- Built-in cellular and GPS antenna for easy installation

The TTU-1230 rechargeable battery pack trailer tracking product is designed for reliable, multi-year deployments. The TTU-1230 is an ideal solution for managing assets that are normally tethered to 12 or 24 volt systems but may still idle for extended periods.

COMPETITIVE PRICE, COMPETITIVE TECHNOLOGY, COMPETITIVE EDGE

The TTU-1230 high-value tracking unit from ThinAir features a small size, superior GPS performance, an internal 5.2 Ah battery and three Inputs/Outputs (I/O). The TTU-1230 is a complete vehicle tracking and communications device incorporating next-generation, super-sensitive GPS technology on GPRS, CDMA, and HSPA cellular networks for installation in any 12 or 24 volt mobile vehicle. Superior internal antennas for both cellular and GPS eliminate the need for wired antennas and make th TTU-1230 mountable virtually anywhere in the vehicle for east, inexpensive installations.

Messages are transported across the cellular network using enhanced SMS or UDP messaging providing a reliable communications link between the device and your application servers. The TTU-1230 is designed to dramatically reduce cost of ownership, power and size while providing excellent field reliability.

FLEXIBILITY

The TTU-1230 employs ThinAir's industry leading alert engine. This advanced engine monitors external conditions and supports customer-defined expectation-based rules to help meet the needs of your application. The alert engine 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. With this engine, your unique application will meet demanding customer requirements. This behavior can be programmed by ThinAir before shipment at a customer's facility, or over-the-air once the unit has been fielded.

OVER-THE-AIR SERVICEABILITY

Configuration parameters, alert engine rules, and firmware can all be updated over the air. The system 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.



TTU-1230 SPECIFICATIONS

GENERAL

GPRS/EDGE/HSPA and CDMA 1xRTT Communication Modes

packet data, UDP and SMS

Location Technology 50 channel GPS

Operating Voltage 12 and 24 volt vehicle systems

GPS

Location Technology GPS; GLONASS, and QZSS capable

Enhancement Technology SBAS: WAAS, EGNOS, MSAS

Receiver Type 56 channels **Tracking Sensitivity** -162 dBm **Acquisition Sensitivity** -148 dBm **Location Accuracy** 2.0m **Location Update Rate** up to 10 Hz

Anti-jamming

AGPS / Location assistance capable

PHYSICAL

Dimensions 2.125" x 4.33" x 1.59", (54 x 110 x 40.4 mm)

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12 oz / 340 g (with harness) Weight

CONNECTORS, SIM ACCESS

SIM Access Internal

CELLULAR

Data Support SMS, GPRS, CDMA, 1xRTT or

HSPA packet data

Operating Bands (MHz)

GSM/GPRS

850/900/1800/1900

CDMA/1XRTT 850/1900 HSPA/UMTS

800(VI)/850(V)/900(VII)/1700(IV)/1900(II)/

2100(I)

Transmitter Power

32.5 dBm GSM/GPRS 850/900

29.3 dBm 1800/1900 24 dBm

850

CDMA/1XRTT 1900 23 dBm

HSPA/UMTS (all bands) 23 dBm

HSPA data rates 5.6 Mbps upload/ 7.2 Mpbs download **HSPA Fallback** EDGE/GPRS/GSM quad band

EDGE MCS1-MCS9

3GPP Release 6

COMPREHENSIVE I/O

Digital Inputs 1 fixed bias

2 programmable bias

Digital Outputs 3 open collector (200 mA) GPS

Status LED's and Cellular

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

ENVIRONMENTAL

Temperature -30° to +85° C (connected to primary power)

-30° to +70° C (connected to battery power)

-40° to +60°C (storage)

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

. **ELECTRICAL**

Operating Voltage 9-32 V DC (startup, operating)

> 7-32 V DC (momentary) <1 mA @ 12 V (deep sleep)

Power Consumption <16.7 mA @ 12 V (SMS only)

<37 mA @ 12 V (SMS, data, and GPS) <75 mA @ 12 V (Continuous Transmit)

Back Up Battery 3.7 Volt Lithium-Ion 5.2 Ah

6 hour charge time

-15° to +55°C charging temperature

MOUNTING

Screw mount bracket, Standard tie-wrap or adhesive

KEY FEATURES

• 3 months with single message cycle per day on fully charged batteries.

• 5.2 Ah lithium ion rechargeable battery pack

• IP66 sealed enclosure

Packet data (GPRS,CDMA 1xRTT, or HSPA) and SMS-based messaging

· Internal GSM and GPS antennas

· Super sensitive GPS tracking

Ultra-low power save mode (<2mA)

• 3-axis accelerometer for motion sense and impact detection

• 3 inputs and 3 outputs

· Voltage monitoring and low battery notification

• 2,000 buffered messages

10 Built-in Geo-fences

PEG™ Exception-Based Rules

Automatic, Over-The-Air Unit configuration on Power-up (PULS™)

Over-The-Air Firmware Download (PULS™)

Web-Based Device Management (PULS™)

CERTIFICATIONS

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

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All specifications are typical and subject to change without notice

