



The TTU-2830 weatherproof, complete vehicle tracking device is designed for reliable, long-term deployments and is ideal for assets that are tethered but may sit disconnected for periods of time. Equipped with a rechargeable battery pack, precise GPS technology, LTE Cat 1 and expansive I/O harness, this device enables a broad array of use cases for asset management solutions.

Key Features

- Extensive power management features
- Large (5.2 Ah) rechargeable battery
- Weatherproof (IP66)
- 500 message cycles on a fully charged battery
- Up to 1 minute reporting
- Geozones
- Motion tracking
- Sleep timer
- Specified wake times
- Starter Interrupt
- Embedded cellular and GPS antennas
- 6600 mAh rechargeable battery
- Accelerometer and motion detector
- Rugged, weatherproof enclosure
- Integrated mounting flange

Use Cases

- Trailers
- Intermodal
- Containers
- Generators
- Mobile Lighting
- Transportation Equipment
- Agriculture



Benefits

- Increase revenue by managing demurrage and dwell by asset
- Ensure proper placement
- View cargo load sizes
- Ensure proper cargo loading
- Track assets with intermittent or no external power source
- Monitor cargo status real time
- Solar power charged in one hour
- Easy to install
- Affordable



Technical Specifications

Cellular & GPS Specifications

Cellular

- LTE Cat 1: 1900 (B2)/ AWS 1700 (B4)/ 850 (B5)/ 700 (B12) MHz

GPS

- **Channels:** 55 Channel
- **Tracking Sensitivity:** -167 dBm
- **Location Accuracy:** ~2.0m CEP
- **Anti-jamming**

Power Requirement

Operating Voltage

- 12/24 VDC Vehicle Systems

Power Consumption

- Typical 400uA @ 12V (deep sleep)
- Typical 15mA @12V (radio-active sleep)
- Typical 60mA @12V (active tracking w/ GPS and cell enabled)

Battery Capacity

- Up to 5200 mAh

Battery Technology

- Lithium-ion

Certifications

- FCC/IC/PTCRB/RoHS

Mechanical

Temperature:

- -30°C to +60°C / -22°F to +140°F (connected to primary power)
- -20°C to +60°C / -4°F to +140°F (operating on internal battery)
- -20°C to +25°C / -4°F to +77°F (storage > 3 months)

Dimensions:

- L: 4.5 W: 3.2 H: 1.6 (inches)

Weight:

- 8.11 oz

Shock and Vibration:

- U.S. Military Standards 202G, SAEJ1455

Enclosure

- IP66

Physical Connections

- **Ignition Inputs:** 1 fixed bias
- **Digital Inputs:** 2
- **Analog Inputs:** 1 external ADC input
- **Serial Interface:** 1 TTL port
- **1-Wire® Interface:** 1 (driver ID/ temperature)
- **Power, I/O:** 12 wire captive harness