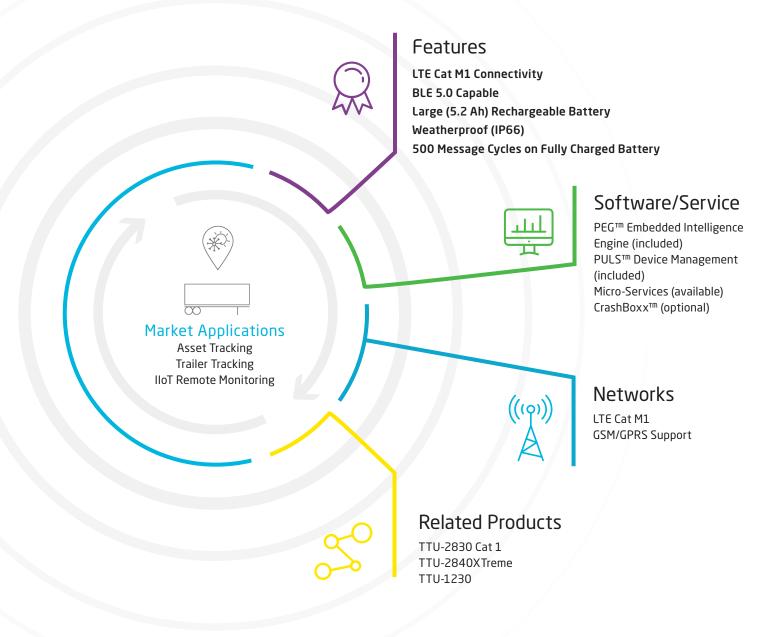
TTU-2830TM LTE Cat M1 | 12-Wire

exibility,

Versatile Asset Tracker Built for Flexibility, with Extensive I/O Capabilities and Excellent Field Performance

The TTU-2830[™] LTE Cat M1 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 LTE Cat M1 global coverage, Bluetooth Low Energy (BLE) 5.0 capability, and expansive I/O harness, the TTU-2830 is a versatile asset management solution.







TTU-2830™ LTE Cat M1 Technical Specifications

Cellular/Network

Global Variant

LTE Cat M1 2100 (B1)/1900 (B2)/1800 (B3)AWS 1700 (B4)/850 (B5/B26)/900

(B8)/700 (B12/B13/B28)/800 (B18/B19/B20)/1900 (B39/B25) MHz

GSM/GPRS 850/900/1800/1900 MHz

Data Support

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

Satellite Location (GNSS)

 Constellation Support
 Hybrid GPS, GLONASS, SBAS Engine (WAAS, EGNOS, MSAS)

 Channels
 55 Channel

 Tracking Sensitivity
 -167 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

 Anti-jamming

Comprehensive I/O

AGPS Location assistance capable

Ignition Inputs	1 fixed bias
Digital Inputs	2 (high/low bias selectable 0-30 VDC)
Digital Outputs	3 (open collector relay 150mA)*
Analog Inputs	1 external ADC input
DC Power Output	1 switched VIN*
Serial Interface	1 TTL port
1-Wire® Interface	1 (driver ID/temperature sense)
Status LEDs	2 (GPS and cellular)
Accelerometer	Built in, triple-axis (driver behavior, impact detection, motion sensing, tilt detection)

Interface Standards

Bluetooth Low Energy (BLE) 5.0 capable

Certifications

Industry Certifications FCC, IC, CE, PTCRB, RoHS, BT SIG, RCM

* Selection Configurable - Output2 and switched VIN share the same wire

Electrical

Operating Voltage 12/24 VDC Vehicle Systems

9-30 VDC (start-up, operating)

7-32 VDC (momentary)

Power Consumption Typical 400uA @ 12V (deep sleep)

Typical 15mA @ 12V (radio-active sleep)

Typical 60mA @ 12V (active tracking w/GPS and cell enabled)

Battery Pack

Battery Capacity	Up to 5200 mAh
Battery Technology	Lithium-lon
Charging Temperature	0° to +45° C

Environmental

Temperature	-30° to +60° C (connected to primary power) -20° to +60° C (operating on internal battery) -20° to +25° C (storage > 3 months)
Humidity	85% RH @ 50° C non-condensing
Shock and Vibration	U.S. Military Standards 202G, SAEJ1455
ESD	IEC 61000-4-2 (4KV test)
Ingress Protection Rating	IP66

Physical/Design

Dimensions	4.5 x 3.2 x 1.6" (114 x 80 x 39mm)
Weight	20.45 oz. (580g w/harness)

Connectors/SIM Access

Power, I/O	12 wire captive harness
SIM Access	Internal (2FF SIM)

Wireless Interfaces

BLE Antenna	Internal
Cellular Antenna	Internal
GPS Antenna	Internal

Device Management

PULSTM Monitor, manage, upgrade firmware, configure and troubleshoot devices remotely

Embedded Intelligence Engine

PEG™

Update device functionality or develop new on the edge applications

CALIFORNIA PROPOSITION 65

