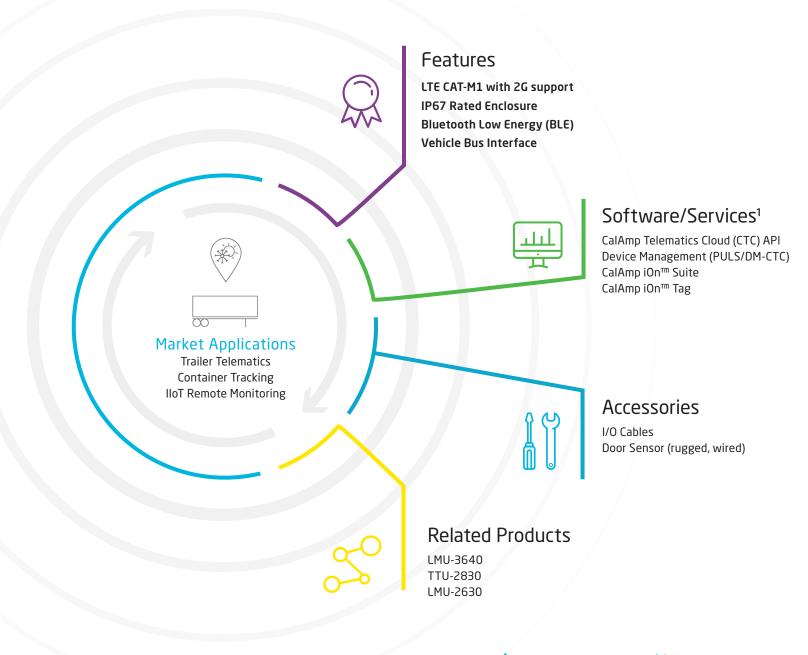
TTU-2900™

LTE CAT-M1 | Solar-Tracker



Weatherproof Solar Powered Asset Tracker for Rugged Environments

The TTU-2900[™] is a next-generation solar regenerative telematics gateway built for extreme environments. Enabling a comprehensive asset visibility solution through wired and wireless sensor networks to deliver optimal asset utilization, safety, security, and efficient operations.







TTU-2900™ 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, TCP, CalAmp Telematics Cloud API

Satellite Location (GNSS)

Constellation Support GPS/GLONASS/BeiDou/Galileo/QZSS

Tracking Sensitivity -157 dBm

Acquisition Sensitivity -157 dBm (hot start)

-146 dBm (cold start)

Location Accuracy <2.5m CEP Open Sky

Location Update Rate Up to 5 Hz

Comprehensive I/O

Ignition Input 1 (fixed bias)

Digital Inputs 3 (high/low bias selectable 0-30 VDC)

Digital Outputs 2 (open collector relay 150mA)

Analog Inputs 2 external ADC inputs

1-Wire® Interface 1 (driver ID/temperature sense)

DC Power Outputs 1 switched VCC_SYS (3.5V - 4.2V), 1 switched 3.3V

Accelerometer Built in, triple-axis (driver behavior, impact detection, motion

sensing, tilt detection)

Button/LED 1 (Multi-function Push Button Switch w/LED indicator)

Serial Interface 1 TTL Port, 1 RS-232 Port

Certifications

Industry Certifications FCC, IC, PTCRB, RoHS

Cloud/Software Services¹

PULS/DM-CTC Monitor, manage, upgrade firmware, configure and troubleshoot devices remotely

CTC Device data stream via RESTful APIs

iOn[™] Monitor and protect your fleet operations with CalAmp iOn[™] fleet

management software

iOn[™] Tag Track and protect valuable equipment and assets of any size with iOn[™]

Tag, our smart proximity sensor

Edge Intelligence¹

PEG™ Update device functionality or develop new on the edge applications

Electrical

Operating Voltage 12/24 VDC Vehicle Systems

9-30 VDC (start-up, operating)

7-32 VDC (momentary)

Battery Technology 6W @ 12.5V

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

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

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

Battery Pack

Battery Capacity 6.2 Ah

Battery Technology Lithium-Ion

Charging Temperature -10° to +50° C

Environmental

Temperature -30° to +60° C (connected to primary power)

-20° to +60° C (operating on internal battery)

-30° to +45° C ≤ 6 months (long term storage with battery)

Humidity 75% RH @ 50° C non-condensing

Shock and Vibration U.S. Military Standards 202G, SAEJ1455

ESD IEC 61000-4-2 (4KV test)

Ingress Protection Rating IP67

Physical/Design

Dimensions 463mm x 128mm x 48mm (18.2in x 5in x 1.9in)

Weight 38 oz. (1084 g) (w/ 6 Ah Battery)

Connectors/SIM Access

Power, I/O 1x 12-Pin round connector, 1x 14-Pin round connector

SIM Access External (4FF)

Interface Standards

Bluetooth Low Energy (BLE)

VBUS Truck Data CAN (J1939), TrailerCAN

Wireless Interfaces

GPS Antenna Internal

Cellular Antenna Internal

BLE Antenna Internal

¹ Subscription service enabled. Contact sales rep for additional details

CALIFORNIA PROPOSITION 65



This product can expose you to chemicals including Carbon black and Nickel, which are known to the State of California to cause cancer, and including Bisphenol A and 1,3-Butadiene, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov