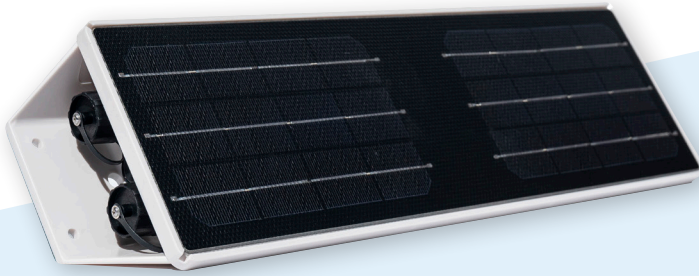


TTU-2900™

LTE CAT-M1, Solar-Tracker

Cal/Amp®

Weatherproof Solar Powered Asset Tracker for Extreme Environments



Dimensions

18.2" x 5" x 1.9"

463 mm x 128 mm x 48 mm

Weight

38 oz. (1084 g)

CalAmp Telematics Cloud

Connect remote assets to a diverse set of vertical applications and third-party services to scale your fleet and power data-driven operations.

Powerful Applications

Visualize the data you need and extract maximum value while minimizing your costs. Put intelligent analytics and custom reporting at your fingertips via a single-view, user-friendly interface.

Comprehensive Asset Visibility

Safe • Secure • Efficient



Solar Regenerative Telematics

- High-capacity solar panel
- High-capacity battery for operation in extended low-light conditions



LTE Cat-M + 2G Cellular Connectivity

- Deployable world-wide
- Future proofed for 5G (included in mMTC 3GPP Rel. 16)



Rich Connectivity for Sensor Integration

- Bluetooth 5.0 for short-range wireless connectivity
- CAN bus for Trailer CAN, & sensor hubs
- Analog/Digital/Serial Inputs/Outputs for wired connections



Ruggedized

IP-67 rated with stellar shock & vibration performance

TTU-2900™ LTE CAT-M1, Solar-Tracker | Efficient. Dependable. Innovative.

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 Inputs	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, motionsensing, tilt detection)
Button/LED	1 (Multi-function Push Button Switch w/LED indicator)
Serial Interface	FCC, IC, PTCRB, RoHS

Certifications	
Industry Certifications	FCC, IC, PTCRB, RoHS

Cloud/Software Services¹	
CalAmp Telematics Cloud	Device data stream via RESTful APIs
CalAmp Application	Fleet management software
Accessories	Mounting tabs built-in for easy install Optional harnesses available

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	18.2" x 5" x 1.9" 463 mm x 128 mm x 48 mm
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	Bluetooth Low Energy (BLE)
VBUS Truck Data	CAN (J1939), TrailerCAN

Wireless Interfaces	
GPS Antenna	Internal
Cellular Antenna	Internal
BLE Antenna	Internal

For full tech specs visit calamp.com

¹ Subscription service enabled. Contact sales rep for additional details.

