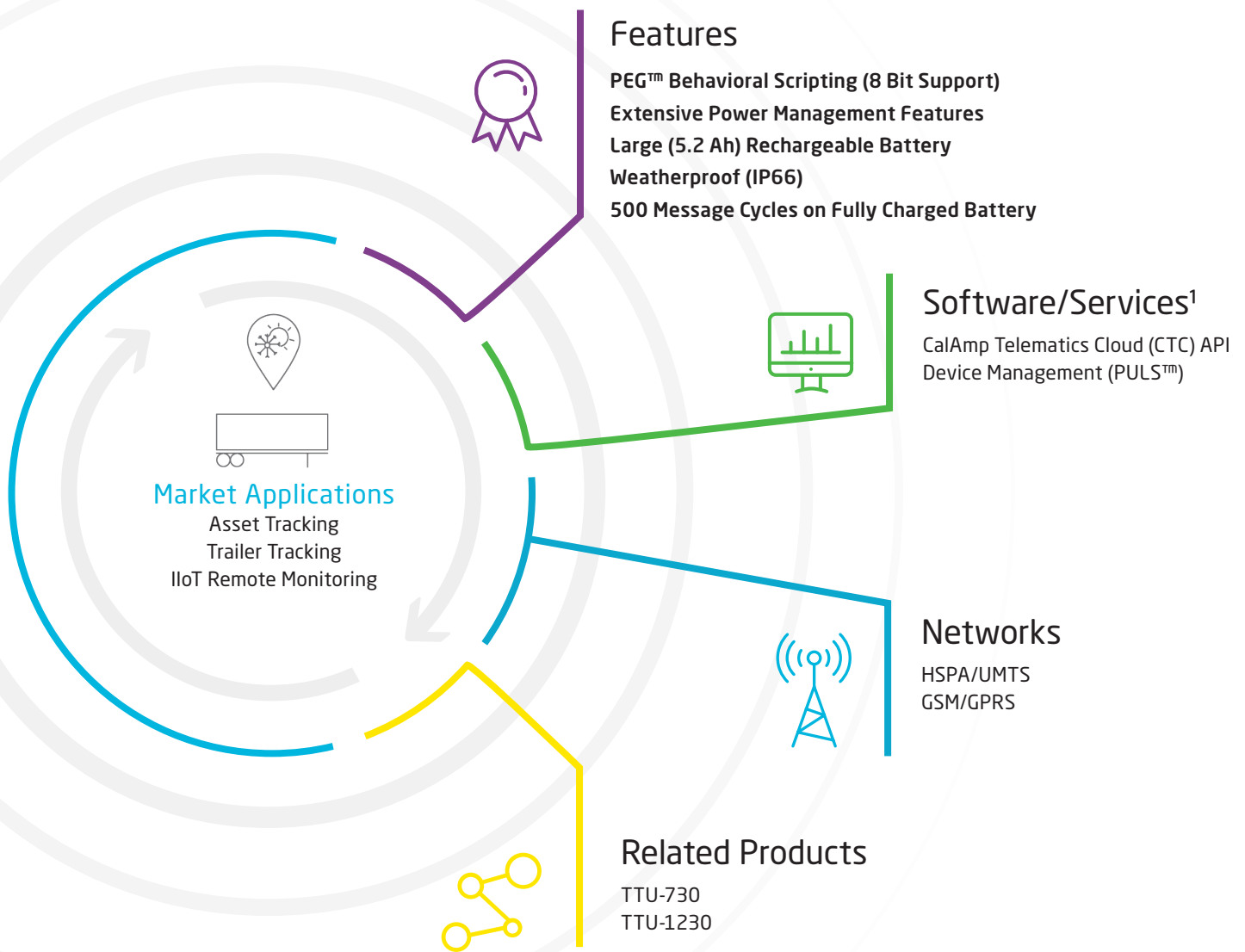


TTU-1220™



Essential Asset Tracker Built for Extended Use, Rapid Deployment and Excellent Field Reliability

The TTU-1220™ is an asset tracking device built to support multi-year deployments and includes a rechargeable battery pack. Equipped with a durable weatherproof design and internal antennas for simple installation, it is an ideal solution for assets that are tethered but may sit disconnected for periods of time.



T1220Q319DS V1
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¹ Subscription service enabled. Contact sales rep for additional details.

Cal/Amp®

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TTU-1220™ Technical Specifications

Cellular/Network

Global Variant I	
HSPA/UMTS	800 (VI)/850 (V)/900 (VIII)/1700 (IV)/1900 (II)/2100 (I) MHz

Global Variant II	
GSM/GPRS	850/900/1800/1900 MHz

Data Support

SMS, UDP Packet Data

Satellite Location (GNSS)

Constellation Support	Hybrid GPS, GLONASS, SBAS Engine (WAAS, EGNOS, MSAS)
Channels	50 Channel
Tracking Sensitivity	-162 dBm
Acquisition Sensitivity	-148 dBm
Location Accuracy	~2.0m CEP Open Sky (SBAS 24 hours static)
Location Update Rate	Up to 4 Hz

Comprehensive I/O

Digital Inputs	3 fixed bias
Digital Outputs	3 (open collector relay 200mA)
Accelerometer	Built-in, triple-axis (motion sensing, tilt detection)
Status LEDs	2 (GPS, cellular)

Certifications

Industry Certifications FCC, CE, IC, PTCRB, RoHS

Cloud/Software Services¹

PULS™	Monitor, manage, upgrade firmware, configure and troubleshoot devices remotely
CTC	Device data stream via RESTful APIs

Edge Intelligence¹

PEG™ Behavioral scripting (8-bit support)

Electrical

Operating Voltage	12/24 VDC Vehicle Systems 9-32 VDC (startup, operating) 7-32 VDC (momentary)
Power Consumption	Typical <1mA @ 12V (deep sleep) Typical <16.7mA @ 12V (SMS only) Typical <37mA @ 12V (SMS, data, and GPS) Typical <75mA @ 12V (continuous transmit)

Battery Pack

Battery Capacity	Up to 5200 mAh
Battery Technology	Lithium-Ion
Charging Temperature	-15° to +55° C

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, SAEJ1455
ESD	SAE J1113; FCC-Part 15B
Ingress Protection Rating	IP66

Physical/Design

Dimensions	2.125 x 4.33 x 1.59" (54 x 110 x 40.4 mm)
Weight	12 oz. (340g) (w/ harness)

Connectors/SIM Access

GPS Antenna	Internal
Cellular Antenna	Internal
SIM Access	Internal (2FF SIM)

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CALIFORNIA PROPOSITION 65



WARNING:

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