



Azuga Rechargeable Asset Tracker Specifications TTU-2830 Product Series

1. Physical Characteristics

1.1 Dimensions and Weight

(L = 114 mm, W = 80 mm, H = 39mm), 20.45 oz. (580g w/harness)

1.2 Battery Pack (Capacity, Charging Temperature, Technology)

Capacity: Upto 5200 mAh

Battery Technology: Lithium-Ion

Charging Temperature 0° to +45° C

1.3 Temperature Range

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

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

-20° to +25° C (storage > 3 months)

1.4 Humidity

85% RH @ 50° C non-condensing

1.5 Shock, Vibration & Heat

SAE Test: SAE J1455 compliant

U.S. Military Standards 202G

2. Certifications

2.1 Environment Certifications

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

3. Electrical Characteristics

3.1 Supply Voltage

12-24 VDC Vehicle Systems

9-30 VDC (start-up, operating)

7-32 VDC (momentary)

3.2 Current Consumption

Typical 400uA @ 12V (deep sleep)

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

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

4. Wireless

4.1 Cellular/Network

North American Variant I

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

HSPA/UMTS: 850 (V)/1900 (II) MHz

North American Variant II

LTE Cat 1: AWS 1700 (B4)/700 (B13) MHz

Global Variant I

HSPA/UMTS: 800 (VI)/850 (V)/900 (VIII)/1800 (III)/1900 (II) MHz

GSM/GPRS: 850/900/1800/1900 MHz

Global Variant II

GSM/GPRS: 850/900/1800/1900 MHz

4.2 Sensitivity

Tracking sensitivity - 167 dBm

Acquisition Sensitivity: -157 dBm (hot start) -148 dBm (cold start)

4.3 Carrier Support

Jasper AT & T

4.4 COMM

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

4.5 Antenna

BLE Antenna Internal

GPS Antenna Internal

Cellular Antenna Internal

4.6 PULS

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

5. GNSS

5.1 Constellation SupportReceiver

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

5.2 Satellite Channels

55

5.3 Antenna

Internal built-in

5.4 Cold Start

-148 dBm (cold start)

5.5 Hot Start

-156 dBm (hot start)

5.6 Accuracy

~2.0m CEP Open Sky (GPS SBAS 24 hours static)

5.7 A GPS

AGPS Location assistance capable

5.8 Anti-Jamming

Yes

6. Accelerometer

Built in, triple-axis (driver behavior, impact detection, motion sensing, tilt detection)

7. Miscellaneous

7.1 Location Update Interval

Configurable (4 Hz Max)