

ZenBeacon Cellular

ZenBeacon Cellular offers a full service asset tracking solution. Utilizing the latest in Cellular technology, **ZenBeacon Cellular** has the lowest power and longest battery life so you can track, monitor and manage a wide variety of assets like never before, from durable goods to perishable goods. **ZenBeacon Cellular** is designed as a full stack solution and comes with device, network and application ready. Increase your productivity ROI, and visibility.

Connect, Deploy, Visualize Now!

Features

- Off-the-shelf deployment
- Real-time tracking
- Configurable alerting
- Motion tracking, triggering updates
- Geo-Location
- GNSS: GPS / QZSS, GLONASS , Galileo enabled
- IP66 Rugged & dust / water-proof enclosure
- Temperature
- Humidity
- Pressure
- Light
- Accelerometer

Benefits

- Ultra-low power platform
- Long battery life (8-10 years; depending on update rates)
- Low device cost
- Low deployment cost
- No reader needed
- Full coverage (deep indoor and rural areas)
- Support for a massive number of devices



Technical Specifications

General

Communication	LTE CAT M ₁ / CAT NB ₁
Location Technology	High accuracy with 3 concurrent GNSS (GPS, Galileo, GLONASS)

GPS

Receiver	72-channel u-blox M8 engine GPS/QZSS L1 C/A, GLONASS L1OF Galileo E1B/C SBAS L1 C/A: WAAS, EGNOS, MSAS, GAGAN.
Sensitivity	Tracking & Navigation: -165 dBm Cold start: -146 dBm Hot start: -155 dBm
Accuracy	Position accuracy 2.5 m CEP

Cellular

Data	LTE CAT M ₁ Packet Data (CoAP/UDP) / CAT NB ₁ Packet Data CoAP/UDP/Neul IoT Broker
Operating Bands	Verizon B13, North America (Bands 2, 4, 5, 12), NB (Bands 5, 8, 20)

Battery

Standard with 2 (3.6 V AA Battery)

Sensor

Environmental	Temperature [-40, +85; Absolute accuracy ± 0.5 °C] Humidity [-40, +85; Absolute accuracy ± 3 %RH] Pressure [-40, +85; Absolute accuracy ± 1 hPa]
3-Axis Accelerometer	Motion, shock and tilt triggers

Certification

Certifications: AT&T Targets: FCC, IC, Verizon ODI, Bell, Ericsson, T-Mobile, Telefonica

Physical

		mm	Inches	
Dimensions	Height	100.6	3.96	
	Height w/ tabs	124.1	4.89	
	Width	56.6	2.23	
Weight	TBD	Thickness	33.7	1.33

Environmental

Temp	-40 to +85C (batteries) -40 to +85C (batteries)
Humidity	95% R.H. @ 50C non-condensing