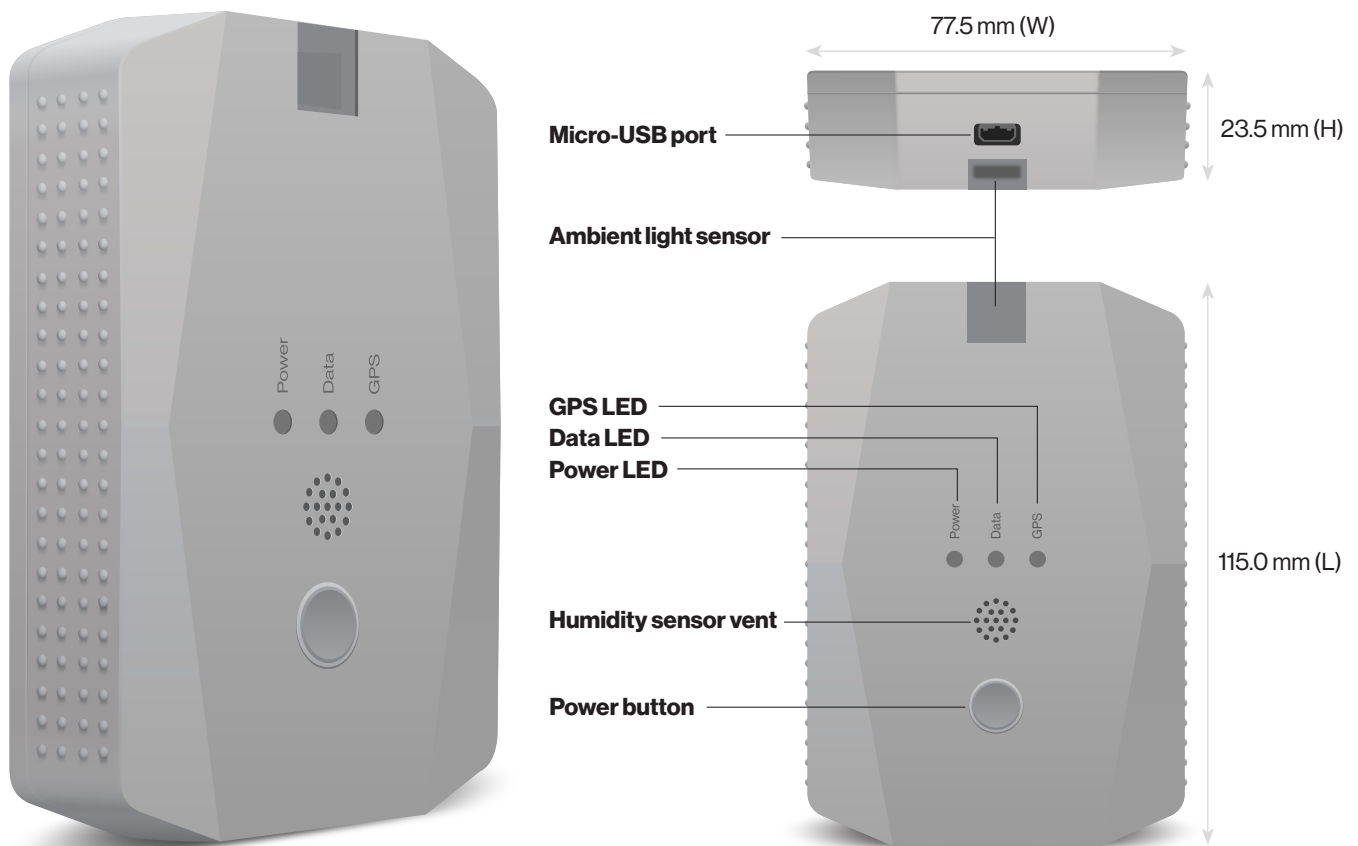


Verizon Critical Asset Sensor

Overview

Solving business challenges is tough enough without having to figure out complex sensor solutions. Get right to the data you need to solve those challenges with the Verizon Critical Asset Sensor. The solution is built to tackle many different IoT use cases from tracking a mobile asset to monitoring an indoor environment.



Verizon Critical Asset Sensor

Specifications

Wireless communications

LTE Cat-M1 - Band 13
Roaming..... Yes

Location services

GPS..... GPS 1575.42 MHz (L1) GNSS 1602 MHz
Cellular Cell ID

Certifications

Environmental RoHS
Regulatory (i.e. FCC, CE) FCC: Part 15,22,24
Cellular Verizon Open Development Certified

Interfaces

Power Micro-USB B

Indicator/Buttons

LED 3 LED programmable (Battery, LTE connectivity, GPS)
Button Touch Sensitive (Power/Wake - *Short press*, Reset - *Long press*)

Physical characteristics

Grade Industrial
Dimensions 115.0mm (L) x 77.5mm (W) x 23.5mm (H)
Weight 198 g (7oz.)

Environmental

Operational temperature -20 °C - 60 °C
Storage temperature -20 °C - 75 °C
Humidity..... <95% non-condensing
Drop 3 ft onto concrete
Vibration..... up to 500Hz random 1.25G rms
Sealing..... IP67



Verizon Critical Asset Sensor

Specifications

Sensors

Accelerometer	3 - axis, scalable up to +/-16g
Orientation.....	0 to 360 degrees around x and y axis
Temperature.....	-20 °C - 65 °C +/- 0.5 °C
Humidity.....	0% - 95% RH
Pressure (Barometer)	300 - 1100 hPA
Ambient light.....	0k - 64k lux

Remote device configuration

Reporting configuration.....	Yes
Location reporting activate/deactivate.....	Yes
Sensor alarm configuration.....	Yes - programmable threshold
Sensor read configuration	No

Battery

Battery	4000mAh Rechargeable Li-oN
Battery charge time	Approximately 4 hrs from 0-100% at 25 °C

Battery life estimates*

Sensor read frequency	Reporting frequency	Estimated battery life
15 min	15 min	14 days
1 hr	1 hr	90 days
4 hrs	4 hrs	180 days
24 hrs	24 hrs	360 days

**Estimates based on 25 °C ambient temperature, strong constant GPS, and cellular reception.*

