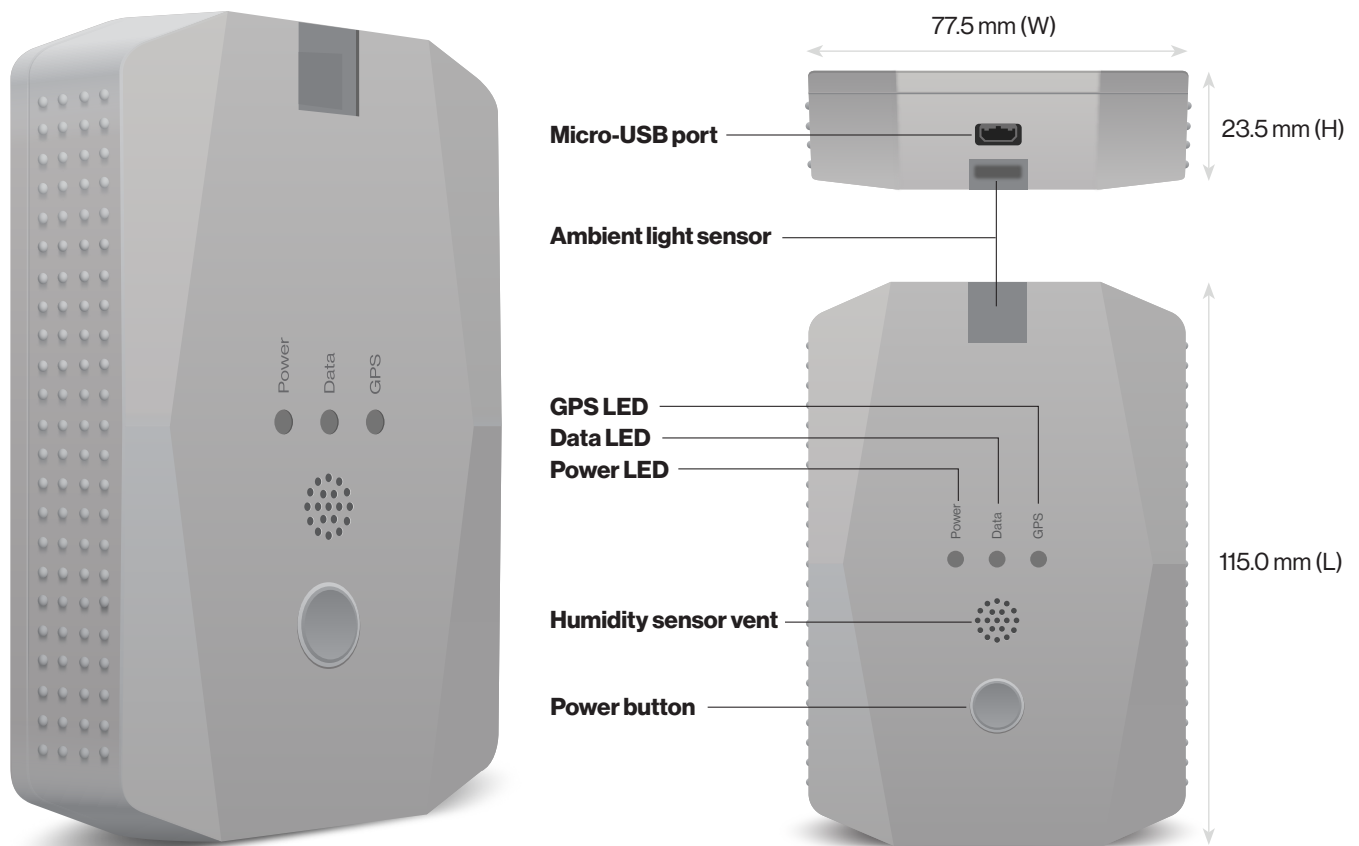


# Verizon Critical Asset Sensor

## 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.

