Verizon Global Asset Tracker

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 Global Asset Tracker. The solution is built to tackle many different IoT use cases from tracking a mobile asset to monitoring an indoor environment.
Verizon Global Asset Tracker

Specifications

Wireless communications

LTE .................................................. Cat-M1 Global
GSM .................................................. 2G GSM GPRS - Quad Band

Location services

GPS .................................................. GPS 1575.42 MHz (L1)
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

Indicator/Buttons

LED ................................................. 2 LED Power and Status

Physical characteristics

Grade ............................................. Industrial
Dimensions ..................................... 119.5mm (L) x 62.5mm (W) x 23mm (H)
Weight ........................................... 156g (5.5oz.)

Environmental

Operational temperature .................... -20°C – 60°C
Storage temperature ......................... -20°C – 75°C
Humidity ....................................... <95% non-condensing
Drop ............................................. 4 ft onto concrete
Vibration ........................................ up to 500Hz random 1.25G rms
Sealing .......................................... IP67
Verizon Global Asset Tracker

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: Yes

Battery

- **Battery**: 4000mAh Rechargeable Li-oN
- **Battery charge time**: 4hrs from 0 – 100%

Battery life estimates CAT-M1

<table>
<thead>
<tr>
<th>Sensor read frequency</th>
<th>Reporting frequency</th>
<th>Estimated battery life</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 min</td>
<td>15 min</td>
<td>19 days</td>
</tr>
<tr>
<td>5 min</td>
<td>30 min</td>
<td>36 days</td>
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<tr>
<td>15 min</td>
<td>2.5 hrs</td>
<td>160 days</td>
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<tr>
<td>15 min</td>
<td>24 hrs</td>
<td>268 days</td>
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</table>

Battery life estimates 2G-GSM (GPRS)

<table>
<thead>
<tr>
<th>Sensor read frequency</th>
<th>Reporting frequency</th>
<th>Estimated battery life</th>
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<tbody>
<tr>
<td>5 min</td>
<td>15 min</td>
<td>10 days</td>
</tr>
<tr>
<td>5 min</td>
<td>30 min</td>
<td>18 days</td>
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