The Yabby is a compact, battery-powered, IP67 tracking device. Perfect for mounting to small assets or in a concealed location.

**FEATURES**
- Long battery life up to 3 years
- Global LoRaWAN region support
- High performance GPS / GNSS
- 3D Accelerometer
- Small size, IP67 Rated
- Uses 3 x AAA off-the-shelf batteries
- User replaceable batteries
- Configurable over-the air or via config cable
- After hours movement/activity alerts
- Easy to install simply “place-n-trace”
- Easy to conceal
- Suitable for livestock

**APPLICATIONS**
- Non-powered asset tracking
- Equipment locate and recovery
- Livestock tracking
- Anchoring and security of assets
- Shipping containers and freight

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### MECHANICAL FEATURES

- **Low-profile IP67 rugged housing**
  The Yabby comes in a compact IP67 rated housing (waterproof) that is UV stable and rugged.

- **Operating temperature**
  -20°C to +60°C
  For operation in extreme temperatures the device must be fitted with Lithium 1.5V batteries.

- **Dimensions (mm)**
  L 85mm x W 63mm x H 24mm

### CONNECTIVITY

- **LoRaWAN**
  All 868MHz and 915MHz regions supported.

- **GPS and RF Antenna**
  Internal antennas tuned by RF laboratories to ensure optimal performance.

- **Configuration**
  Setup by USB Cable and over-the-air (OTA) via downlink messages.

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Component</th>
<th>Details</th>
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<tbody>
<tr>
<td><strong>Batteries</strong></td>
<td>3 x AAA Size 1.5V batteries – alkaline or lithium Low cost and readily available</td>
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<tr>
<td><strong>3D Accelerometer</strong></td>
<td>3 axis accelerometer allows the Yabby to “sleep” in an ultra-low power state yet still wake up when movement occurs</td>
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<td><strong>Adaptive Tracking</strong></td>
<td>Adaptive-Tracking technology enables the accelerometer and GPS data to be used intelligently to work out if it is moving and to send frequent updates, as well as to scale the update rate down to once per day if the asset is stationary to preserve battery life</td>
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<td><strong>Autonomous Aiding Data</strong></td>
<td>Predicts satellite locations Reduces time to first fix Improves performance in “urban canyons”</td>
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### Tracking

- **GPS Module**
  U-Blox EVA GPS, High sensitivity assisted GPS receiver, 72 channel (-167dBm tracking)

- **GNSS**
  GPS, BeiDou, Galileo, GLONASS, QZSS

- **Antenna with LNA**
  Our GPS design is boosted by a low-noise amplifier (LNA) allowing operation in “urban canyons” and in the most demanding conditions

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Oyster (left) vs Yabby Size Comparison