

## General Overview

|                           |  |
|---------------------------|--|
| Product name              | BeeSense Max   |
| Model name                | BNG500   |
| Dimensions                | 116 mm × 69 mm × 22 mm<br>4.57 in × 2.72 in × 0.87 in  |
| Weight                    | 170 g<br>6.0 oz  |
| Housing                   | ABS plastic enclosure  |
| Available information     | Temperature, Humidity, Motion, Light, Shock data and events, LTE-1/GSM, GPS, Wi-Fi location, Battery and system status, BLE Scanning |
| Ingress protection rating | IP67   |
| Flight detection          | Yes  |
| (U)SIM Interface          | Nano SIM   |

## Temperature Calibration

|                         |                        |
|-------------------------|------------------------|
| Calibration Standard    | NIST Certified         |
| Calibration certificate | Available upon request |

## Technical data

|                       |   |
|-----------------------|---|
| Battery type          | Non-Rechargeable Li-SoCl <sub>2</sub> 10400 mAh. Lithium content 2.88g.                               |
| Battery life          | Device transmits data for 10 to 120 days depending on cloud reporting interval, as detailed on page 2 |
| LEDs                  | 2 LED's Power LED and Status LED  |
| Charging              | Non rechargeable  |
| Storage Capacity      | Upto 10000 messages   |
| Cellular network type | 4G (LTE-1) and GSM  |
| Cellular coverage     | Global  |
| Cellular Antenna      | Internal  |
| GNSS Antenna          | Internal, GPS/ GLONASS/ BDS/ Galileo QZSS   |

## Measurement Data

|   |  |
|---|--|
| Measurement Interval<br>Sampling rate   | 15 minutes (Minimum)   |
| Data Reporting  | The device needs to wake up and establish a connection to upload measurement data to the Roambee HC Cloud.                   |
| Wake-up schedule  | Adjustable from 15min to 24h frequency. The device wakes up when an excursion triggers an alarm, regardless of the schedule. |
| Gravity Measurement Range   | ±2g/±4g/±8g/±16g   |
| ODR Bandwidth for Accelerometer   | 1Hz ~ 400Hz  |
| Temperature range<br>Logs Temperature: Yes<br>Cloud connection: Can be established.<br>Battery life: Normal | -30°C to +70°C   |
| Humidity Range<br>Logs Humidity: Yes<br>Battery life: Normal  | 0 to 99% RH  |
| Ambient and Tamper range<br>Illuminance Range: 0 to 100 Lux   | 0-100 LUX adjustable levels  |

## Certifications

|                     |                 |
|---------------------|-----------------|
| Approvals           | CE, FCC, Giteki |
| Aviation compliance | FAA and EASA    |

## Scanning Feature

|           |  |
|-----------|--|
| WLAN      | 2.4GHz 802.11b (Rx) (Max 5 Locations)                              |
| Bluetooth | Bluetooth 5.0 (can report up to 100 beacons at once via HC Portal) |

## Battery type

The device is powered by a non-rechargeable Li-SoCl<sub>2</sub> battery, 10400mAh. Li-SoCl<sub>2</sub> batteries are not considered dangerous goods when shipped with the device.

## Battery life

The reporting interval can be changed remotely through the Roambee cloud using the cellular network

The device enters hibernation mode when the battery level reaches 10% or less, at which stage it stops attempting to connect to the Roambee cloud.

The battery life depends on the set wake-up interval, as shown in the table below.

| Wake-up interval | Battery life |
|------------------|--------------|
| 15 mins          | 40 days      |
| 30 mins          | 80 days      |
| 1 hours          | 120 days     |
| 6 hours          | >150 days    |

