



## blukii® Small MKII 1201 BLE beacon

### 1 Features & Description

- Compact and modern design
- 250 mAh replaceable battery
- Ultra-low power consumption
- Bluetooth Low Energy® 5.3
- Multiple operation modes
- High resolution 12-bit Accelerometer



**Description:** The blukii® beacon is a Bluetooth low Energy battery-operated device that can be used in many applications. The beacon's controller is Atmosic™ ATM33 SoC. Its ultra-low power consumption feature allowed the use of a small battery and a compact design with a diameter of 2.2 cm only. By default, it advertises iBeacon frames, but it can be set detect special Events and advertise a blukii special frame.

### 2 Intended Use

Smart Beacons are Bluetooth transmitters that send a unique ID to surrounding devices at certain intervals. They are used to identify places and objects.



- This document is part of the product. It contains important information for installation and operation. Store it carefully.
- Any other use than described in these instructions is not permitted. The manufacturer assumes no liability for personal injury or damage resulting from improper use.
- The product must not be modified.
- If the product is damaged, it may no longer be used.
- Only operate the device within the technical specifications.
- The product should be operated in dry and dust-free locations.
- The product must not be exposed to strong mechanical loads.
- The beacon must be protected from strong heat.
- Do not operate the device near flammable gases and vapours.
- Do not remove any stickers or labels from the product. These contain important product and safety information.

### 3 Tools & Software

#### 3.1 blukii manager

The blukii Manager is our cloud-based platform. It acts as a central tool for the administration of all blukii components and services. You can manage and configure your blukii hardware in the free Device Management module.

For more information, please follow the link: [blukii Manager • blukii](#)



### 3.2 blukii Configurator App

The blukii Configurator app allows you to configure your blukii Beacons (Smart & Sensor) as well as Smart Keys and lets you customize their settings for your location-based services project.

For more information, please follow the link: [blukii Configurator - Apps on Google Play](#)

### 3.3 blukii Hub

With the blukii Hub, data of surrounding Smart Beacons and Sensor Beacons can be received and processed. Depending on the used beacon and the configured settings, various scenarios such as sensor monitoring, asset tracking or event monitoring can be realized. The blukii Hub is designed for use with blukii beacons and delivers, in combination with Smart Beacons and Sensor beacons, results quickly and easily.

For more information, please follow the link: [Hub • Hardware • blukii](#)

### 3.4 Development Tools & Resources

Please Contact [support@blukii.com](mailto:support@blukii.com)

## 4 Usage & Configuration

### 4.1 Add Smart Beacons in the blukii Manager

To be able to configure and manage your Smart Beacons in the blukii Manager, you have to add them to your blukii Manager account. Proceed as follows:

1. Log in to <https://manager.blukii.com/> with your blukii Manager account. If you don't have an account yet, you can create one for free.
2. In the "My blukiis" section, you can add new smart beacons using the "+ ADD" button. Enter the activation code from your delivery in the corresponding field. By clicking on the "ADD TO MY BLUKIIS" button, the smart beacons from your order will be assigned to your account.

### 4.2 Management and configuration via blukii Manager and Configurator App

The cloud-based blukii Manager acts as a central tool for managing and configuring your smart beacons. Device settings can be made here, which can then be transferred to the corresponding beacon using the blukii Configurator app. Changes made in the app are transferred to the blukii Manager.

To change the settings of your smart beacon, proceed as follows:

1. Log in to <https://manager.blukii.com/> with your blukii Manager account.
2. In the "My blukiis" section, click on the blukii for which you want to change the settings.
3. Make the desired changes and apply them by clicking the "Save" button
4. Place your smartphone near the appropriate beacon and start the blukii Configurator app
5. Select the corresponding blukii to get to the "Device Info" view. The orange cloud in the General section indicates that there are changed settings.
6. Now tap on the blue edit button at the bottom right and wait until the connection to the beacon has been established.
7. The Update area now appears in orange. Tap the "Update Device" button here to transfer the parameters changed in the blukii Manager to the beacon.







8. If you now exit the configuration view, a dark blue cloud shows that the data has been successfully synchronized and is up to date.

Parameter changes can also be made directly via the blukii Configurator app. To do this, proceed as follows:

1. Place your smartphone near the corresponding beacon and start the blukii Configurator app
2. Select the blukii for which you want to make changes
3. Then tap in the "Device Info" view on the blue edit button at the bottom right and wait until the connection to the beacon has been established.
4. Make the desired changes and apply them by clicking on the "Save" button
5. After leaving the "Configuration view", the changes are transferred to the blukii Manager

## 5 Battery Notes

-  **This product contains a coin / button cell battery. If the coin / button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.**
-  **Keep new and used batteries away from children.**  
If the battery compartment/product housing does not close securely, stop using the product and keep it away from children.  
If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.
-  **Do not use rechargeable batteries!**  
Rechargeable Batteries usually have a higher internal resistance and lower voltages. This can lead to incorrect runtime estimation and reduced operating time.
- **Use high quality batteries!**  
A Panasonic CR2032 button cell is suitable for operating your blukii Small MKII.
-  **Risk of explosion!**
  - Do not recharge, short-circuit or disassemble batteries!
  - Immediately remove empty batteries from the blukii Small MKII
  - Keep batteries away from children and avoid contact with eyes, skin and mucous membranes. If you come in contact with battery acid, wash out immediately with clear water and consult a doctor.

## 6 Disposal



Products carrying this symbol are subject to separate collection of electrical and electronic devices.  
Within the European Union, disposal is taken care of by the manufacturer as a free-of-charge service.

## 7 Trademarks

blukii® is a registered trademark for hard&softWERK GmbH.

Bluetooth® is a registered trademark of Bluetooth SIG Inc.

Atmosic™ is a trademark of Atmosic Technologies.

All trademarks are the property of their respective owners.



## 8 Regulatory Statements

### 8.1 FCC Statement

FCC ID: 2BBC6-BS222

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference; and
2. This device must accept any interference received, including interference that may cause undesired operation.

**Note:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

### RF Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must be at least 20 cm from the user and must not be co-located or operating in conjunction with any other antenna or transmitter.

**Modifications:** Any modifications made to this device that are not approved by hard&softWERK GmbH may void the authority granted to the user by the FCC to operate this equipment.

### 8.2 IC Statements

CAN ICES-003 (A) / NMB-003 (A)

This device complies with ICSED's licence-exempt RSSs. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be chosen so that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Le présent appareil est conforme aux CNR d' ICSED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. le dispositif ne doit pas produire de brouillage préjudiciable, et
2. ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada.



Dans le but de réduire les risques de brouillage radio électrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

## **ISED Radiation Exposure Statement**

This equipment complies with the IC RSS-102 radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and user body.

Cet équipement est conforme aux limites d'exposition aux rayonnements ioniques RSS-102 Pour un environnement incontrôlé.

Cet équipement doit être installé et utilisé avec un Distance minimale de 20 cm entre le radiateur et votre corps.

**NOTE:** This document is subject to change without any prior notice.