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Brick

User manual

Introduction

BlueUp Brick, henceforth identified with the terms "product", "device" or "beacon", is a Bluetooth Low Energy (BLE) beacon for proximity, identification and localization applications.

BlueUp Brick can be provided with different firmware options that include: standard BLE beacon (support for iBeaconTM and EddystoneTM technologies); additional support for Quuppa Compatible (support for Quuppa RTLS platform) and Wirepas (support for Wirepas mesh network, for either mobile tag or anchor).

BlueUp Brick is provided in an IP67 plastic enclosure. It integrates accelerometer for motion detection.

BlueUp Brick is powered by a custom battery pack of 2x HBC ER14505 1S2P (3.6V, Lithium Thionyl Chloride LiSoCl₂, 5200 mAh typ. capacity @ 25°C).

Before you start using BlueUp Brick, verify that it is undamaged and carefully read the instructions in this user manual, particularly the indications in the "Safety" section.

BlueUp S.r.l. disclaims any and all liability if the devices are used in modes and environments incompatible for keeping the product's intact, safe and in operation.

Procedures

The beacon is provided with battery inserted. It is immediately active and works according to preloaded firmware.

Standard BLE beacon

To modify beacon configurations, you can use the free **BlueBeacon Manager** app provided by BlueUp and available for iPhone / iPad (Apple Store) and Android (Google Play).

For information on configuration, on services and characteristics, and on all use aspects, please refer to the technical information in the BlueUp Docs web page at docs.blueupbeacons.com or contact technical assistance at support@blueupbeacons.com.

Credentials to login to BlueBeacon Cloud (cloud back-end for management, synchronization, monitoring and configuration of BlueUp beacons) may be requested at info@blueupbeacons.com.

Quuppa Compatible

Beacon can be received by Quuppa RTLS infrastructure. Beacon settings can be updated using Quuppa Site Planner. For technical details, please refer to the technical information in the BlueUp Docs web page at docs.blueupbeacons.com or contact technical assistance at support@blueupbeacons.com.

Wirepas

Beacon can operate either as anchor or mobile tag, depending on production configuration. Settings can be updated using Wirepas Network Tool or MeshCube interface. For technical details, please refer to the technical information in the BlueUp Docs web page at docs.blueupbeacons.com or contact technical assistance at support@blueupbeacons.com.

Safety

These information are an integral and essential part of the product and must be delivered to the user. Read them carefully as they contain important information regarding the installation, use and maintenance.

Warnings

The device is a professional device whose intended use is aimed at professions or industries and which is not intended for sale to the general public.

The beacon is a wireless device.

The beacon must be intended for use for which it was designed. Any other use is considered improper and therefore dangerous.

The device can be used in professional healthcare environments (please refer to Annex A for more information).

Operating conditions: temperature -40/+75°C; humidity 20-80%.

Before you start using the beacon, verify that it is undamaged.

 **DO NOT use the beacon in potentially explosive atmospheres. The presence of flammable gas or fumes is a serious safety hazard.**

The company BlueUp S.r.l. disclaims any liability for damages caused by an inadequate use of the device and the failure to observe the information provided herein.

Battery

BlueUp Brick is powered by custom battery pack, according to the following table:

Battery pack					
Q.ty	Common name	Manufacturer	Type	Nominal voltage	Nominal capacity
1	ER14505 1S2P	HBC	Lithium Thionyl Chloride (LiSoCl2)	3.6V	5200 mAh (@25°C)

Battery pack replacement

 **Used or discharged battery pack MUST be replaced with similar one, provided by BlueUp S.r.l.. Contact BlueUp S.r.l. for battery pack refurbishment**

Battery pack replacement must be performed by an adult. To replace the battery, follow the instructions below:

1. unscrew the 4 screws on the top lid;
2. remove the used battery pack from the metallic holder;
3. disconnect the socket on the used battery-pack cable from the connector on the circuit;
4. connect the socket on the new battery-pack cable to the connector on the circuit. Socket and connector have reversal-polarity protection. The flashing of the led indicates correct insertion;
5. lock the new battery pack into the metallic holder;
6. screw the 4 screws on the top lid.

CAUTION

 **DO NOT power the device with other batteries or battery packs.**
Explosion hazard if battery is replaced with the wrong type.

 **DO NOT connect the battery pack cable socket into the circuit connector with the positive and negative contacts reversed.**

 **DO NOT disassemble, puncture or damage the batteries or the battery packs.**



DO NOT recharge the batteries or the battery packs.



DO NOT short the positive and negative contacts of the batteries or the battery packs.

DO NOT cause a forced depletion of the batteries or the battery packs.



DO NOT throw the batteries or the battery packs in fire.



DO NOT place the batteries or the battery packs in the following environmental conditions: in the vicinity of heat sources, exposed to direct sunlight, high temperatures, high humidity, extremely-low pressure, in contact with water.



Keep new and used batteries out of the reach of children.

If the battery compartment does not close tightly, stop using the product and keep it out of the reach of children.

In the event of suspected ingestion of the batteries or their insertion into other body orifices, seek medical advice immediately.

Waste disposal



In implementing the Directives 2011/65/EU and 2012/19/EC on the restriction of the use of hazardous substances in electrical and electronic equipment and the disposal of waste.

The crossed bin symbol on the product, on the attached manual or on its packaging indicates that at the end of the product life, it must be collected separately from other waste. The user must, therefore, take the remote control to an authorized disposal center for collection of electronic and electrical waste, or return it to the dealer when purchasing a new similar appliance, on a one to one basis. Appropriate separate collection for the subsequent forwarding of the product sent for recycling, treatment and environmentally compatible disposal helps to prevent negative environmental and health effects and promotes the reuse and/or recycling of materials making up the equipment. Illegal dumping of the product by the user entails the application of administrative sanctions in the current provisions of law.

For more information about the collection systems, contact your local authorities.

In implementing Directive 2006/66/EC on the reduced use of hazardous substances in batteries and the disposal of the same.

The crossed bin symbol on the appliance or its packaging indicates that the batteries must not be disposed of with the rest of the household waste, as they may contain substances that are potentially harmful to the environment and health. Remove the old battery from the device and turn it in at the appropriate collection points.

Disclaimer

This manual is intended to provide a brief summary of our knowledge and some guidance regarding the use of the beacon and its parts, including the battery. The information contained herein has been provided by sources that BlueUp S.r.l. considers to be dependable and is accurate to the best knowledge of the company. This sheet is not intended to be an inclusive document on worldwide hazard communication regulations. The information is provided in good faith. Each user of this material needs to evaluate the conditions of use and define the appropriate protective mechanisms to prevent the exposure of persons, property damage or release to the environment.

BlueUp S.r.l. assumes no responsibility for injury to the recipient or third persons, or for any damages resulting from misuse of the device and its parts.

Warranty

Refer to BlueUp General Terms and Conditions of Sale available at www.blueupbeacons.com

Conformity

EU (ETSI)

Hereby, BlueUp S.r.l. declares that BlueUp Brick is in compliance with Directives 2014/53/UE (RED) and 2011/65/UE (RoHS 2) with 2015/863/UE (RoHS 3).



The full text of the EU declarations of conformity is available at the following internet address:
www.blueupbeacons.com

Frequency band: 2400 – 2482 MHz
Maximum radiated power: 2.5mW

Annexes

Annex A: Technical information for use of BlueUp Brick in professional healthcare environments

Contacts

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