PRODUCT SPECIFICATIONS

BLE Beacon Battery BT-ASC-BB

BATTERY VERSION

Give every room a digital identity

The BLE Beacon Battery is a beacon that is installed at a fixed, known position. It continuously broadcasts its unique identifier, so any scanning handset can confirm proximity to the beacon and instantly knows the location it is in.

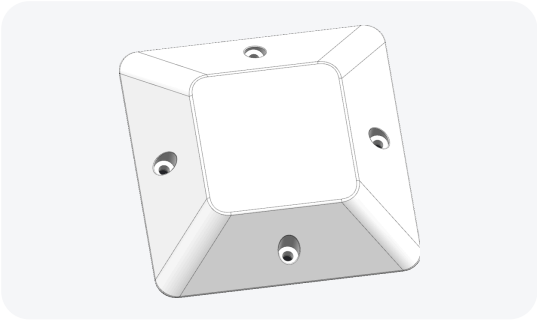
> **The BT-ASC-BB is the battery version: powered by four standard AA lithium cells, it installs anywhere in a matter of minutes, with no cabling required.**

The robust IK10- and IP65-rated housing ensures high impact resistance and protection against dust and water. Flexible wall and ceiling mounting options enable quick and discreet installation in all environments.

Based on its built-in sensors, the beacon broadcasts its battery voltage and temperature next to its location information, as well as its movement status to signal sabotage or theft of the beacon. The firmware is optimised to consume the least possible power.

Configuration is done over BLE and is password-protected. The following parameters can be changed:

- UUID, Major, Minor
- Advertising interval and mode
- Telemetry update rate
- Transmission power
- Accelerometer parameters
- Password



AT A GLANCE

Radio	BLE · 2.4 GHz
Frames	iBeacon & Blyott
Antenna	PIFA · 2.4 GHz
Power	4 × AA Lithium
Sensors	Movement + Temperature
Protection	IK10 · IP65

A range of use cases

- Room-level location of staff via handset scanning.
- Fully wireless, ideal where no power outlet is available.
- Tamper & movement alarm: displacement is flagged immediately.

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All specifications BT-ASC-BB

GENERAL

Radio	BLE, 2.4 GHz (Nordic nRF54L15)
Advertising	iBeacon & Blyott frames · 100 / 300 / 500 ms interval, 6 selectable modes
Transmission power	+4 dBm to −18 dBm, configurable
Antenna	Compact 2.4 GHz surface-mount PIFA antenna
Sensors	Built-in 3-axis accelerometer with temperature sensor
Telemetry	Battery voltage, temperature and movement status, every 15 min (configurable)
Configuration	Over BLE, password-protected
Battery reference	4 × AA Lithium (IEC FR6), 1.5 to 1.8 V, batteries included, 20-year cell shelf life
Power management	Firmware optimised for lowest possible consumption
Customized version	Also available as a customizable variant, article BT-ASC-BB-CUS

PHYSICAL

Dimensions	126 × 126 × 29 mm
Casing	ABS, with internal 4 × AA battery holder
Color	White (RAL 7036 · NCS S4000-N)
Indicators	Green + red LED

CHEMICAL AND MECHANICAL

Protection	IK10 · IP65
Operating temperature	−18 °C to +55 °C
Battery chemistry	Lithium iron disulfide (Li/FeS_2), replaceable
Certificates	CE, FCC, RCM, IP65, IK10, RoHS, REACH

About Blyott

Blyott, a Simac PHI DATA brand, is at the forefront of transforming industries with innovative localization and monitoring solutions. Our platform integrates advanced data analytics and AI, helping healthcare and logistics teams enhance efficiency, foster staff well-being and achieve sustainability goals.

EASY TO SET UP
Works in a matter of minutes.

SCALABLE
Scale to millions of assets.

PAY-AS-YOU-GROW
Custom plans are available.

OPEN STANDARD
Integrate using REST APIs and webhooks.

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Get in touch at
info@phidata.be

FCC caution

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

IMPORTANT NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC RADIATION EXPOSURE STATEMENT

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.