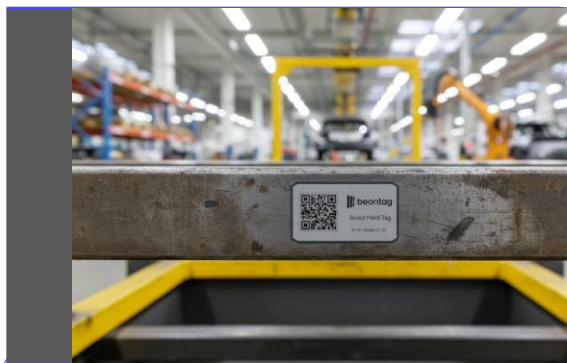


Preliminary Datasheet

BEONTAG SCOUT TAG

SCOUT HARD TAG



Electrical specifications

Device type

Bluetooth® Low Energy tag, Battery powered UHF RFID tag.

Operational frequency

BLE: 2.4GHz ISM: 2402 - 2480 MHz

RFID: UHF global frequency, 860MHz to 930MHz

IC options and memory configurations

BLE: INPLAY IN100

RFID: Impinj M830

EPC memory content

Minimum 128 bits

Read range*

BLE: 60m at 0dBm / 230 ft

RFID: depending on attached material surface.

Applicable surface materials*

Can operate attached to any surface

Wireless interface protocol

Bluetooth® 5.3

Battery capacity

Non-replaceable coin cell

CR2032 (220 mAh)

Sensors

Built-in temperature sensor**

Battery voltage

Sensitivity / Max transmit power

-96 dBm / +4 dBm

Compliance (Declaration of Conformity)

Europe (CE), USA (FCC)

Configuration

One time configured at ordering

* Read ranges are theoretical values that are calculated for non-reflective environment. Different surface materials may influence performance.

**Temperature sensor is located inside the housing, which limits real time measurement of the ambient temperature.

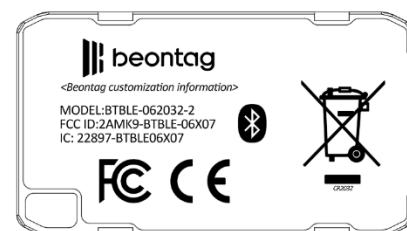
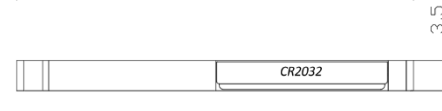
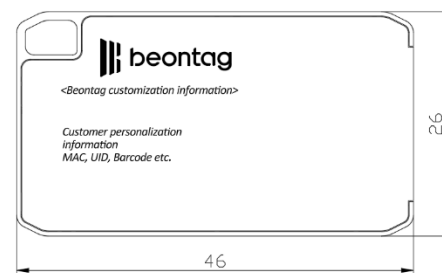
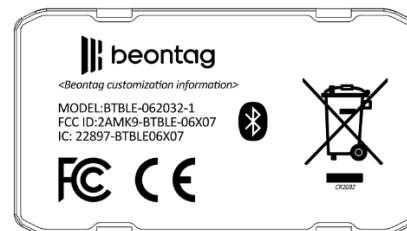
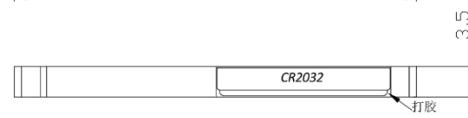
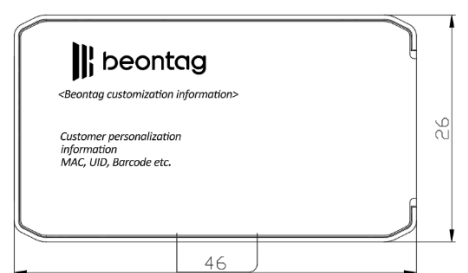


Description

Reliable Bluetooth® Low Energy and RFID tag for identify and locate applications. Quick mounting with adhesive and easy to activate by removing the protective tier off.



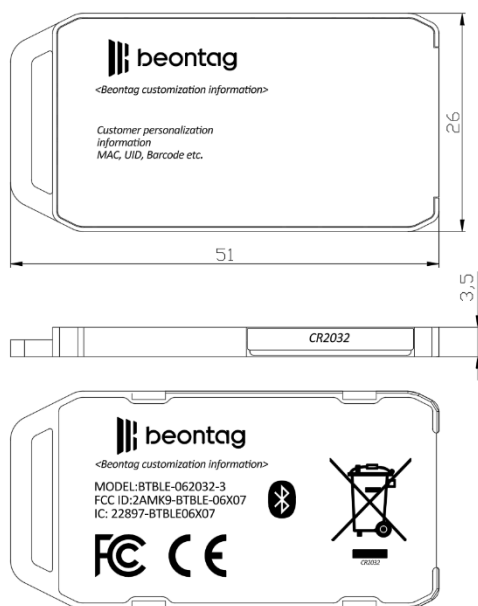
Mechanical specifications



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BEONTAG SCOUT TAG

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Tag core materials
High quality PC/ASA,
Dark grey

Amount in box
To be defined

Weight
Tag: ~10 g

Dimensions
~ 46-51 x ~26 x ~3.5



Personalization options

Data encoding

Encoding of RFID and BLE memory.
BLE is only one-time configurable

Personalized B/W data label

Customer specific layout including logo, text,
numbers, barcodes etc.

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BEONTAG SCOUT TAG

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Environmental resistance

Operating temperature

-20°C to +60°C / -4°F to +140°F

Water resistance

IP68 targeting

Chemical resistance

- To be tested

ESD immunity

±8 kV according to EN 61000-4-2 (air discharge)

±4 kV according to EN 61000-4-2 (contact discharge)

Storage conditions

At room temperature

Values in the table are the best recommendations; resistance against environmental conditions depends on the combination of all influencing factors, exposure duration and chemical concentrations. Thus, product's final suitability for certain environmental conditions is recommended to be tested. Contact Beontag for more specific information.



Supported frames



Eddystone is a trademark of Google Inc
iBeacon is a trademark of Apple Inc.

Scout Hard Tag utilizes Eddystone™ Eddystone, an open Bluetooth® Smart beacon format and/or iBeacon protocol, ensuring straightforward implementation on a wide range of Bluetooth® Low Energy devices.

Scout Hard Tag is factory configured with customer-specific parameters to be used instantly with any third-party system. It can also be personalized with a custom branded label to ease tag identification in the field.

Supported BLE advertisement beacon protocols:

- **Eddystone™-UID** frame broadcasts 16-byte Beacon ID composed of a 10-byte namespace and a 6-byte instance.
- **Eddystone™-TLM** frame broadcasts telemetry information (e.g. SoC voltage and temperature).
- **iBeacon®** frame type supported with advertising 16 bytes UUID, 2 bytes Major, and 2 bytes Minor.
- **Manufacturer Specific data**

Expected lifetime****

Typical lifetime 5 years at 5s UID advertisement interval, 0dBm

**** Beacon lifetime is optimized for long term use, however highly affected by operating mode parameters and ambient conditions. Configured TX power level and advertisement interval have influence on lifetime



Installation instructions

Scout Hard Tag can be attached with following methods:

1. High performance backside adhesive

Mounting the tag with high performance backside adhesive can be used in most applications and surfaces. Clean and dry the surface to obtain the maximum bonding strength.



2. Optional bracket

Mechanical fixing is recommended to be used in every application that includes risk for high mechanical stress or low temperature during tag fixing. Screw is to be used for fixing.



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BEONTAG SCOUT TAG

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Activation

Scout Hard Tag must be activated once by removing the protective tier off.



Order information

Product number:
300XXXX

Product Name:
Scout Hard Tag
default configuration

Eddystone 0dBm 5s interval
Beontag UID + TLM. RFID unique ID

B/W front label: Beontag branded
with QR code with MAC Address.

Product number:
300XXXX

Product Name:
Scout Hard Tag
custom configuration

Eddystone or iBeacon
with B/W front label

For other versions, additional information
and technical support please contact Beontag.

Federal Communications Commission (FCC) Statement (USA)

Caution: The user is cautioned that 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.

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. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

Canada: Industry Canada (IC) Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

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

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Preliminary Datasheet

BEONTAG SCOUT TAG

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IC Radiation Exposure Statement:

This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment.
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body. Déclaration d'IC sur l'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux radiations définies par le Canada pour des environnements non contrôlés.

Cet émetteur ne doit pas être installé au même endroit ni utilisé avec une autre antenne ou un autre émetteur.

Cet équipement doit être installé et utilisé à une distance minimum de 20 cm entre l'antenne et votre corps.

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About Beontag

From the science of graphic and label materials, RFID and wireless IoT enablers, we create solutions across the value chain to deliver digital transformation for businesses around the world.

Sustainability is at the core of what we do and we strongly believe that by substituting non-renewable materials and innovating through more sustainable and renewable products, we act as an ESG enabler for our customers' value chain.

Beontag is one of the world's leading providers of RFID and wireless IoT solutions, being present in more than 40 countries with 7 R&D centers and 2,000 employees, in constant development of technological and sustainable solutions designed to connect items, and gain efficiency and end-to-end traceability.

CONTACT US FOR
MORE INFORMATION:
contact.BLE@beontag.com

The performance of the product should always be tested in the actual application conditions. Our recommendations are based on our most current knowledge and experience and the pictures and illustrations presented in this document are for illustration purposes only. As our products are used in conditions beyond our control, we cannot assume any liability for damage caused through their use. Beontag reserves the right to change its products and services at any time without notice.



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