

**estimote**

# **Estimote Beacon**

## User Manual

# Getting started

**Congratulations on purchasing your Estimote Location Beacon.  
Read this guide to get started.**

Estimote Location Beacon F3.6 is a Bluetooth wireless low energy technology enabled device. It wirelessly communicates with other Bluetooth low energy technology enabled products. The device is equipped with a high-end accelerometer with motion detection features, magnetometer, ambient light sensor, pressure & temperature sensor. The batteries can supply power for over 5 years of continuous use (on default settings).

After installation, the Beacons begin transmitting 2.4 GHz Bluetooth® signals, similar to WiFi. They can communicate with smartphones that are as close as four inches away, or over 650+ feet away.

## Applications

To download the Estimote app for your iOS device please visit the App Store on iTunes, the App Store on your iOS device or download iTunes at <https://itunes.apple.com/>. For Android visit the Google Play Store at <https://play.google.com/store>.

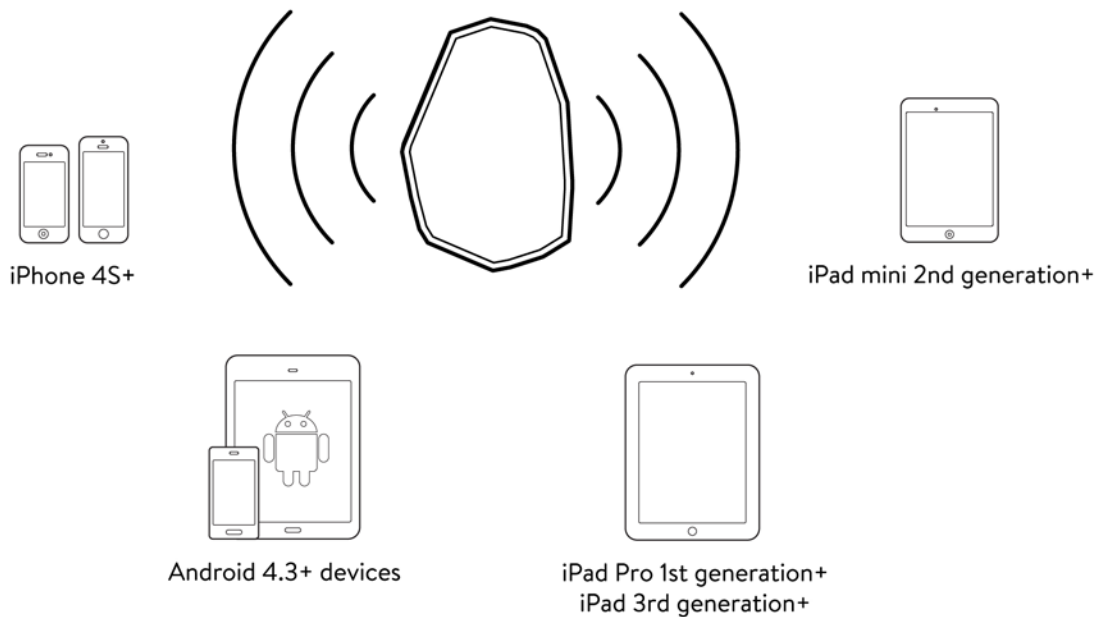
In both cases, search for Estimote, download the app and proceed to follow the app instructions.

## Mounting

- Take beacon out of the box
- Connect to the device via Estimote app, if reconfiguration is needed
- Attach beacon where required using adhesive
- You're done!

## Estimote Location Beacons Communication

Estimote Location Beacons are compatible with iOS and Android devices:



## Learning More, Service and Support

You can find more information about using your Estimote Location Beacon on the web.

For the latest news about Estimote Location Beacons visit [blog.estimote.com](http://blog.estimote.com). For support information, our community forums, and latest Estimote software downloads, go to [www.estimote.com](http://www.estimote.com)

For more information ask our community managers at [contact@estimote.com](mailto:contact@estimote.com)

# Estimote Location Beacon F3.6 Specification

## Radio

- Bluetooth® 4.2 LE standard
- Range: over 200 meters (650 feet)
- TX Power (User selectable): -40 dBm, -20 dBm, -16 dBm, -12 dBm, -8 dBm, -4 dBm, 0 dBm, +4 dBm, +10 dBm

## Sensors/Features

- 3-axis ultra-low-power accelerometer
- 3-axis ultra-low-power magnetometer
- Ambient light sensor
- Atmospheric pressure sensor
- Ambient temperature sensor
- Real Time Clock (RTC)
- 1Mb EEPROM

## NFC

- Type 2 near field communication (NFC-A) tag

## Power supply

- 4x CR2477 – 3.0V LiMnO<sub>2</sub> - lithium primary cell battery

## Environmental Specification

- Operating Temperature: 32°F to 140°F (0°C to 60°C)
- Storage Temperature (recommended): 59°F to 86°F (15°C to 30°C)
- Relative Humidity (operating): 20% to 80% relative humidity
- Relative Humidity (storage): 10% to 90% relative humidity, non-condensing

## Materials

- RoHS compliant
- nonflammable
- enclosure: silicone
- adhesive layer: double-sided tape

## Size and Weight

- Length: 63 mm (2.48 inches)
- Width: 42 mm (1.65 inches)
- Height: 25 mm (0.98 inches)
- Weight: 28 grams (0.99 ounces)

# Estimote Beacons Safety Guidelines

## Important Safety Instructions

- Do not attempt to open the Beacon. Substances contained in this product and/or its battery may damage the environment and/or human health if handled and disposed of improperly.
- Do not tamper with your Beacon.
- Do not drop your Beacon. This can lead to battery leakage and possible damage to the environment and/or human health.
- Do not use abrasive cleaners to clean your Beacon.
- Do not place your Beacon in a Dishwasher, Washing Machine, Microwave Oven or Dryer.
- Do not expose your Beacon to extremely high or low temperatures.
- Do not use your Beacon in a sauna or steam room.
- Do not leave your Beacon in direct sunlight for an extended period of time.
- Do not leave your Beacon near open flames.
- Do not dispose of your Beacon in a fire. The battery could explode.
- Do not attempt to disassemble your Beacon, it does not contain serviceable components.
- Please have the installation, removal, and disposal of this beacon performed by a qualified technician according to local laws and regulations with a thorough understanding of the Important Safety Instructions and Battery Manufacturer Safety Datasheet.

## Tips and Troubleshooting

You can quickly solve most problems with your beacon by following the advice in this chapter.

### Best locations for Estimote Beacons

- Stick your beacon to flat, smooth surface like window glass, mirror.
- Avoid lumpy and uneven surfaces.
- Make sure the surface isn't greasy or dusty.

For more information go to [www.estimote.com](http://www.estimote.com)

## Federal Communications Commission (FCC) Statement (USA)

### FCC PART 15 STATEMENTS FOR USER'S MANUAL

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 UNDESIRE OPERATION.

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

**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.

This device meets the FCC and IC requirements for RF exposure in public or uncontrolled environments.

## Canada: Industry Canada (IC) Statement

IC Notice to Users English/French in accordance with RSS GEN Issue 3:

This device complies with Industry Canada license exempt RSS standard(s).

Operation is subject to the following two conditions:

1. this device may not cause interference, and
2. this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme avec Industrie Canada RSS standard exempts de licence (s).

Son utilisation est soumise à Les deux conditions suivantes:

1. cet appareil ne peut pas provoquer d'interférences et
2. cet appareil doit accepter Toute interférence, y compris les interférences qui

peuventcauser un mauvais fonctionnement du dispositif

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

## EU (European Union):

Declaration of Conformity with Regard to the EU Directive 1999/5/EC Estimote is authorized to apply the CE Mark on Estimote Beacon, thereby declaring conformity to the essential requirements and other relevant provisions of Directive 1999/5/EC.

Compliant with the standard R&TTE 99/CE/05 Conforme à la norme R&TTE 99/CE/05

## Other:

### Safety Statement

This equipment has been tested to comply with safety certification in accordance with the specifications of EN Standard: EN60950-1:2005 (Second Edition) +A1:2009 +A12:2013.

The complete Declaration of Conformity can be found at [www.estimote.com](http://www.estimote.com)

FCC ID: 2ABP2-EST0317

IC: 11753A-EST0317



\* packaging

\*\* beacons