User Manual

RadBeacon Locator Tent Model: RBT-003

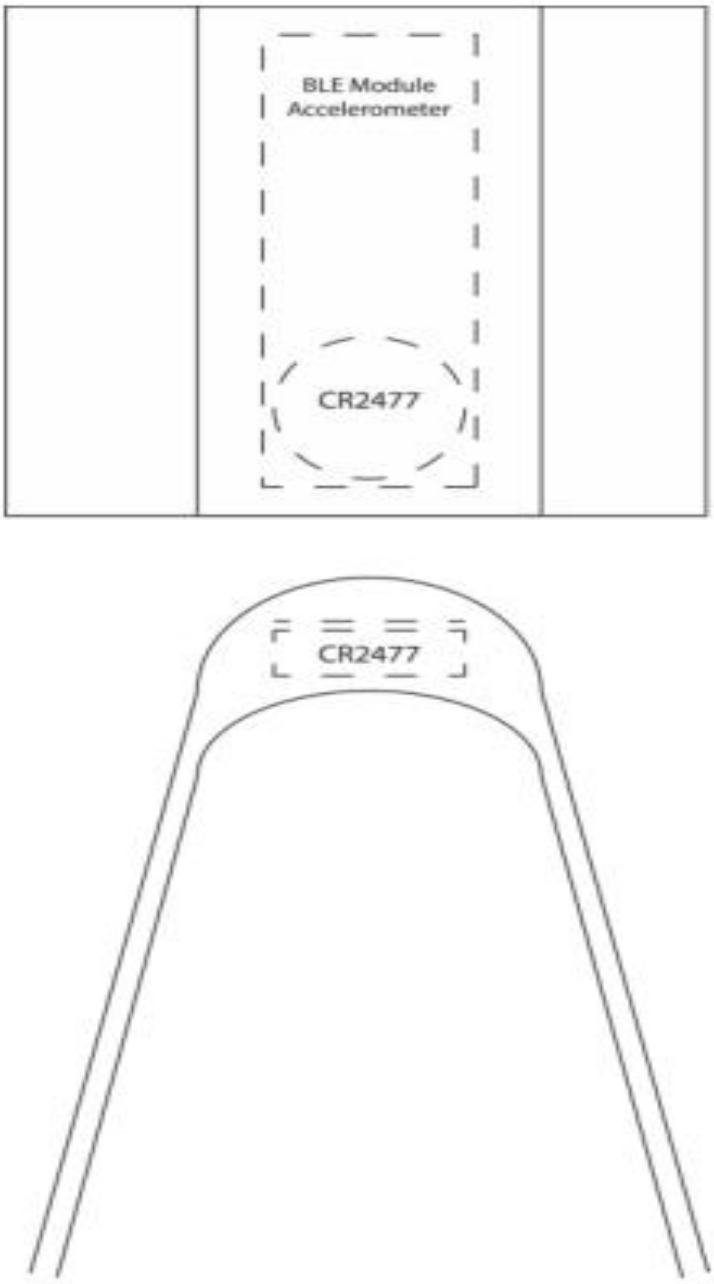
Bluetooth Smart 5.0 proximity beacon powered by 1 CR2477 Lithium battery with tent form factor for extended battery life and a waterproof enclosure.

The idea is to redesign the electronics to use a larger battery.

The tent beacon has an accelerometer to extend battery life by trigger on accelerometer event.

The tent enclosure should be really waterproof to allow the tents to be washed in the restaurant.

Category	**Requirement**	**Additional Detail**	**Partner Comments**
Bluetooth	Bluetooth Low Energy v5.0	Advertising Extensions, GATT Services, L2CAP Channels	
Microprocessor	ARM Cortex M4	This is based on the Nordic NRF52832 SOC as a likely candidate architecture. Open to alternatives	
Flash	512kB of flash memory	This is based on the Nordic NRF52832 SOC as a likely candidate architecture. Open to alternatives	
RAM	64kB RAM	This is based on the Nordic NRF52832 SOC as a likely candidate architecture. Open to alternatives	
Range	100m at max tx power	This is based on the Nordic NRF52832 SOC as a likely candidate architecture. Open to alternatives	
Antenna	Trace or Chip, Omnidirectional		
Sensor	Accelerometer	Motion and fall detection triggered	
Power Source	1 x CR2477	1 x 1,000 mAh	
Battery Life	12 Months	Based on 100Hz advertising rate at +3dBm TX Power	
Enclosure	IP67 Rated		
Enclosure	UL 94 V-0 Flame Rated		
Firmware	Multiple interleaved advertisements	iBeacon, AltBeacon, AltBeacon TLM, Eddystone UID, Eddystone URL, Eddystone TLM, Eddystone EID, Eddystone ETLM	



Tent Notional Layout / Form Factor

IC Statement

This device complies with Industry Canada’s licence-exempt RSSs. 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.

The term “IC: “ before the certification/registration number only signifies that the Industry Canada technical specifications were met. This product meets the applicable Industry Canada technical specifications.

Le présent appareil est conforme aux CNR d'Industrie Canada applicable 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

FCC Statement

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

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 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