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1 General description

PixMob BLE Repeater is a product used to increase the range of BLE devices by repeating and amplifying the received packets. Upon reception of packets containing the proper header coming from phones or tablets with Bluetooth Low Energy capabilities that can run the Spark application designed by PixMob. The repeater reformat the packets with its own header and retransmit them to PixMob pixels that contain BLE modules designed by PixMob (FCC ID: 2ADS4BLE)

2 FCC Statements/Déclarations FCC

FCC ID: 2ADS4REP

This device complies with part 15.247 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.

Caution: 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.
- 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. To comply with FCC RF exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna of this device and all nearby persons. This device must not be co-located or operating in conjunction with any other antenna or transmitter.

Déclaration de la FCC sur l'exposition aux irradiations :

Ce dispositif répond aux limites de la FCC sur l'exposition aux rayonnements établies pour un environnement non-contrôlé.

Pour se conformer aux exigences de conformité de l'exposition de la FCC, une distance de séparation d'au moins 20 cm doit être maintenue entre l'antenne de cet appareil et toutes les personnes à proximité. Ce dispositif ne doit pas être co-localisé ou opérer en conjonction avec toute autre antenne ou transmetteur.

3 IC Statements/Déclarations IC

IC: 7254A-REP

This device complies with Industry Canada licence-exempt RSS 247 standard. 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.

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

To comply with Industry Canada RF exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna of this device and all nearby persons. This device must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet appareil est conforme avec Industrie Canada exempts de licence standard RSS 247. Son fonctionnement est soumis aux deux conditions suivantes: (1) cet appareil ne doit pas provoquer d'interférences et (2) cet appareil doit accepter toute interférence, y compris celles pouvant causer un mauvais fonctionnement de l'appareil.

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

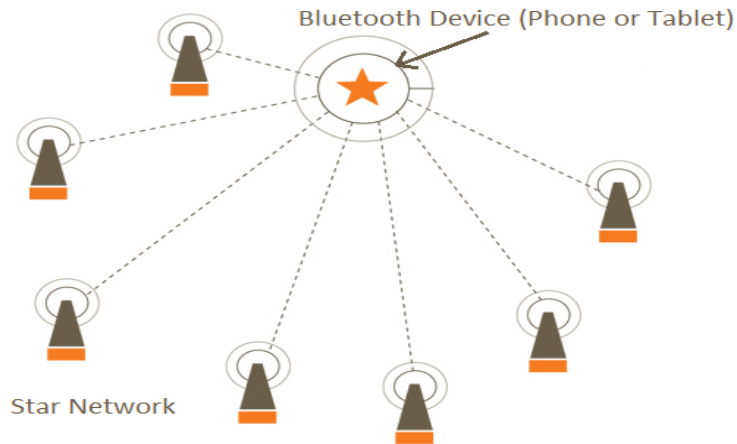
Pour se conformer aux exigences de conformité de l'exposition d'Industries Canada, une distance de séparation d'au moins 20 cm doit être maintenue entre l'antenne de cet appareil et toutes les personnes à proximité. Ce dispositif ne doit pas être co-localisé ou opérer en conjonction avec toute autre antenne ou transmetteur.

4 Installation



The BLE Repeater is a standalone module. It is powered by 2 AAA batteries located under the module. The Repeater only repeats signals coming from a Bluetooth device using the Sparks application. The Repeater maximum range is 15 meters.

It can be located anywhere within 10 meters of the source device or 15 meters of another repeater; ideally at least 2 meters above ground. Multiple Repeaters can be used in a star configuration to cover a wider area (refer to picture below).



To turn on the Repeater, press and hold the button until the red LED blinks fast 3 times. To turn it off, press and hold the button at least 1 second until the red LED is off. When active, if the red LED is blinking fast, it means it is repeating. When it is blinking slowly, it is in listening mode.

The Repeater shuts down by itself after 2 hours of inactivity.

5 Electrical characteristics

FREQUENCY BAND: 2400–2483.5 MHz
RF POWER MAX: 7.7 mW
TYPE OF MODULATION: GFSK
POWER REQUIREMENTS: 2 x AAA batteries (3V)
ANTENNA INFORMATION: Gain 0 dBi

BODY DIMENSION: 68 mm x 37 mm x 68 mm (L, W, H)
WEIGHT: 68g
COLOR: Black