

1. Overview

Tag360-KF and **Tag360-SBM** are complementary set of digital lock and key devices.

Tag360-KF is a physical keyfob device, which would be used to unlock Tag360-SBM immobilizer. Working as a secure BLE (Bluetooth Low Energy) key to Tag360-SBM, the push button keyfob unlocks the smart lock when it is within the Bluetooth perimeter, typically upto 5 meters.

FEATURES

BLE 5.0

Battery life > 2 years

Waterproof enclosure

128b-AES encrypted security

APPLICATIONS

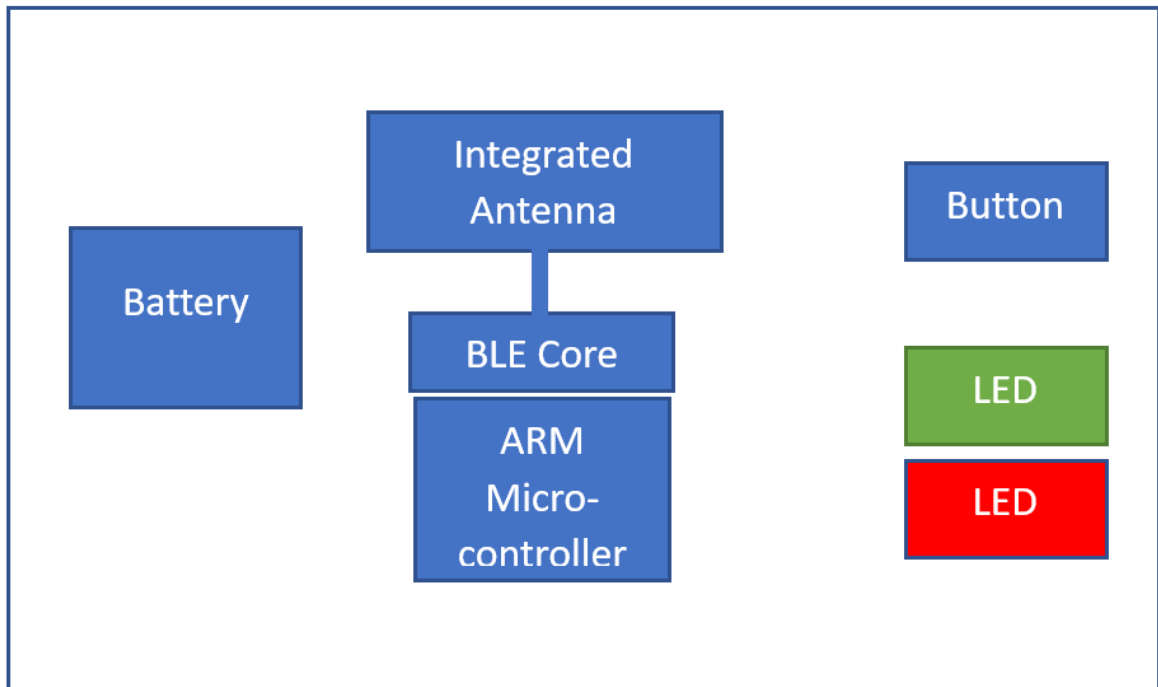
Vehicle lock/unlock

2. Technical Specifications

Electrical and Radio Specifications	
Radio	Bluetooth Low Energy, BLE 5.0
Battery	CR2450 600 mAh
Power Supply	Battery Powered operation with CR cell. 2.6V to 3.6V
Power Consumption	Active Current: 10mA peak current @3.3V Average Current: <u>30uA@3.3V</u> Sleep Current: 5uA@3.3V
I/O	Push button for Lock/Unlock
	Green LED: To indicate Unlock Command
	Red LED: To indicate Lock Command

Mechanical Specifications	
Dimensions	70mm*60mm*30mm
IP Rating	IP67
Certification	CE/FCC
Flammability	UL94-V0

3. Block Diagram



4. Product Images





5. Operation

Tag360-KF is a BLE device which could be used to lock or unlock its paired vehicle. This section describes the modes of operation:

Tag360-KF can be set into Lock or Unlock state by long press of a button. Upon button press,

Unlock state: If Green LED blink is observed, it indicates that the Keyfob has entered Unlock state. It will attempt to unlock the paired bike if it is in its vicinity (i.e., within a radius of 5 meters from bike).

Lock state: If RED LED blink is observed, it indicates that the Keyfob has entered Lock state. It will attempt to lock the paired bike if it is in its vicinity (i.e., within a radius of 5 meters from bike).

The Lock and Unlock state keep alternating with button press. User should ensure a two second delay between two consecutive button presses. They should wait for the LED blinking to stop before pressing the button again.

Please note: a bike which is already running will not be impacted by the Keyfob change of state.

Sleep Mode: Upon inactivity of more than 72 hours, the Keyfob will enter sleep mode and would not perform any Bluetooth activity in this mode. Thus, it would not be possible to lock or unlock a vehicle if the Keyfob is in Sleep Mode. To bring the Keyfob into Active Mode, the button needs to be pressed for a duration of 1 second (or more).

FCC warning:

Federal Communications Commission (FCC) Statement

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.

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

This equipment and its antenna(s) must Federal Communications Commission (FCC) Statement
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