

## Section 1: Overview

The BB1737-25 is a Bluetooth 4.0 module based on the Broadcom BCM20737 specification basic rate-compliant stand alone baseband processor with an integrated 2.4GHz transceiver.

The module includes Flash , crystal and PCB antenna.

### 1.1 Applications

The following profiles are supported in ROM:

- Battery status
- Blood pressure monitor
- Find me
- Heart rate monitor
- Proximity
- Thermometer
- Weight scale
- Time

Additional profiles that can be supported from RAM include:

- Blood glucose monitor
- Temperature alarm
- Location

### 1.2 Features

- Bluetooth low energy (BLE)-compliant
- Supports Adaptive Frequency Hopping
- Excellent receiver sensitivity
- 10-bit auxiliary ADC with nine analog channels
- On-chip support for serial peripheral interface(SPI,UART) (master and slave modes)
- Programmable output power control
- Integrated ARM Cortex™-M3 based microprocessor core
- Automation Profile
- Support for secure OTA
- On-chip power-on reset (POR)
- Integrated low-dropout regulator (LDO)
- On-chip software controlled power management unitq
- Package type:20.5\*12.5\*2mm FR4 PCB with 25 pads located around the perimeter.

## **FCC Statement**

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.

## **Caution:**

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

The transmitter module can not be co-located with any other transmitter or antenna. The module shall be only used with the integral antenna(s) that has been originally tested and certified with this module.

End product labeling:

The final end product must be labeled in a visible area with the following:  
Contains FCC ID: ZKJ-BLEA002

The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module in the user's manual of the end product which integrates this module and in the final product/host user manual must include the regulatory information of FCC part 15.19, 15.21 and 15.105 as above.