



etectRx, Inc. Manual for Using the Module
2AL2U-BRCM1078

Overview

The etectRx, Inc. module is a BLE device originally certificated by the FCC to Cypress Semiconductor under FCC ID: WAP-0737.

Statements and Requirements

The Cypress Semiconductor datasheet for the module should be consulted for all layout or and programming information.

The original Cypress Semiconductor grant notes indicate that the module was approved with a limited modular approval. The limitation is the fact that the module has no apparent shield (Faraday cage). Since the antenna is integral to the module placing a shield over the module would be impractical. Using the module in different hosts requires etectRx to file a class II change with both the FCC and ISED Canada for each new host.

The frequency range of the module is 2402 to 2480 MHz.

The conducted RF power output of the module is 2.2 mW.

This module is for etectRx, Inc. internal use only.

The module is an integrated circuit with integral antenna. Provisions for an external antenna do not exist.

The gain of the antenna is -1.5 dBi

The host must have a label indicating the etectRx FCC ID and be worded as follows.

Contains FCC ID: 2AL2U-BRCM1078

For ISED Canada the label must be worded: Contains IC: 22807-BRCM1078

RF Exposure

The RF output power of the module is 0.0018 Watts or 2.2 mW. This power output is below the RF exposure threshold for use in portable, handheld, or body worn devices. See FCC document KDB 447498 for additional information. The module can be used in all applications except ingested or implanted without RF exposure concerns in the US and Canada. For Canada see document RSS-102.

Host User Manual

The host user manual must contain wording that directs the user to the fact that: "OEM integrators are responsible for ensuring that the end-user has no manual instructions to remove or install module". Although this module is soldered to the PCB and is incapable of working if removed we are still required to mention this in the manual.



The user manual for the host must contain the following regulatory wording. The wording below satisfies both the FCC and ISED Canada requirements.

This device complies with part 15 of the FCC and Canadian 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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage;
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment has been tested and found to comply within the limits of 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 on and off), the user is encouraged to try to correct the interference by using one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the 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

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

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada

Document Revision History

V1.1: added antenna gain and revised Cypress Semi FCC ID.