

LBM100 User Manual

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.
- 2) This device must accept any interference received, including interference that may cause undesired operation.

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

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement:

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

“To comply with FCC RF exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.”

This device is restricted in indoor environment only.

Canadian Compliance Statement

This device complies with Industry Canada license-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.

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 :

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

This radio transmitter (IC: 8853A-LBM100/ Model: LBM100) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list (Appendix A), having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio (IC: 8853A-LBM100/ Model: LBM100) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal. Les types d'antenne non inclus dans cette liste (Annexe A), et dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

Industry Canada Statement

CAN ICES-3 (B)/NMB-3(B)

1. Overview

The LBM100 Wi-Fi module provides a highly-integrated and flexible platform for developing and evaluating products and applications based on the QCA4010 SoC. The LBM100 Wi-Fi module can be either used with development kit for software development or incorporated into OEM products to enable rapid deployment of Wi-Fi connected systems.

The module includes the following components:

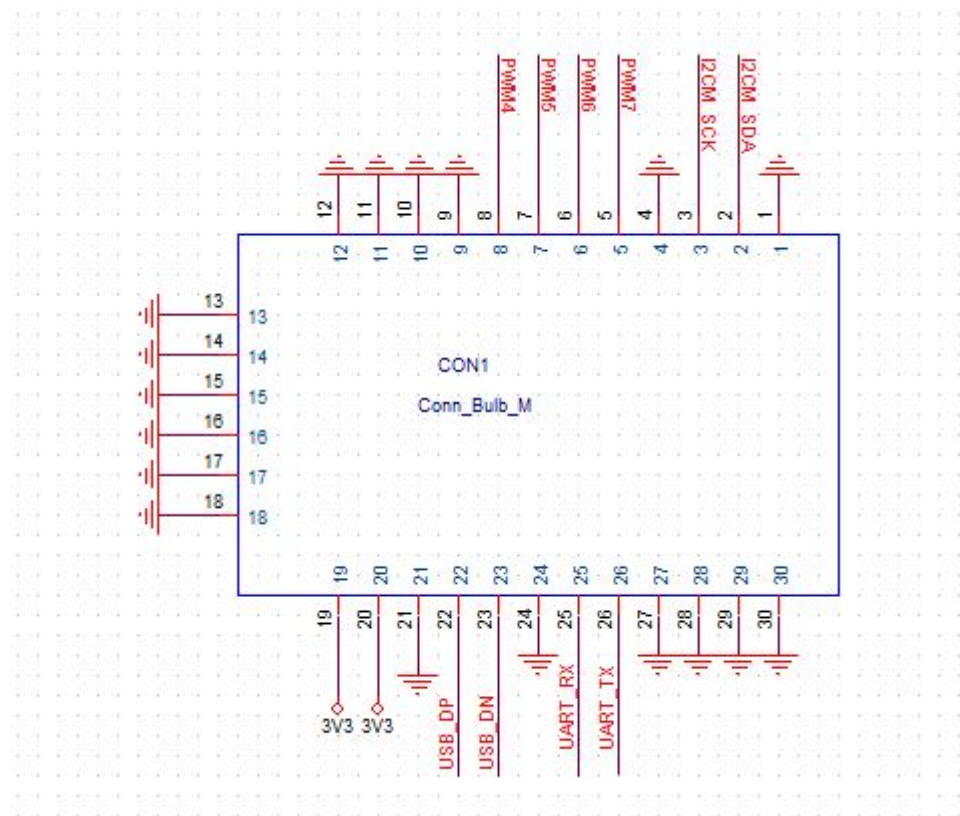
- QCA4010 chip
- An integrated Balun
- A printed antenna
- 2MB SPI Flash
- Shield

2. Interface and pinout

Interface:

- Debug UART
- I2C slave
- PWM x4
- USB2.0 for ART tool

Pinout:



3. Electric Feature

Power Supply	Type	DC
	Input	3.3V0.3A
	Typical	700W
	Standby Mode	324mW

4. Mechanic Feature

Size: 36.50mm*16.00mm*3.9mm

5. Wireless Feature

Operating Frequency:2.4GHz:2412~2462MHz

Transfer Rate: 802.11b: 11/5.5/2/1 Mbps

802.11g: 54/48/36/24/18/9/6 Mbps

802.11n: up to 150 Mbps

Wireless Channel: ch1-ch11(ch1-ch9 for 11nHT40)

Transmit Power:18dBm(max)

Antenna Type: An printed Omni Directional antenna with 2.37dBi gain

6. Physical and Environmental

Operating Temperature: 0°C~100°C

Storage Temperature: -1 0°C~100°C

Working Humidity: 10%~90% RH

7. Additional Description

The module will be installed inside another device. And the outside of the device into which the module is installed will display a label referring to the enclosed module. This exterior label will use the wording such as "Contains FCC ID: TE7LBM100 Contains IC: 8853A-LBM100", or any other similar wording that expresses the same meaning.