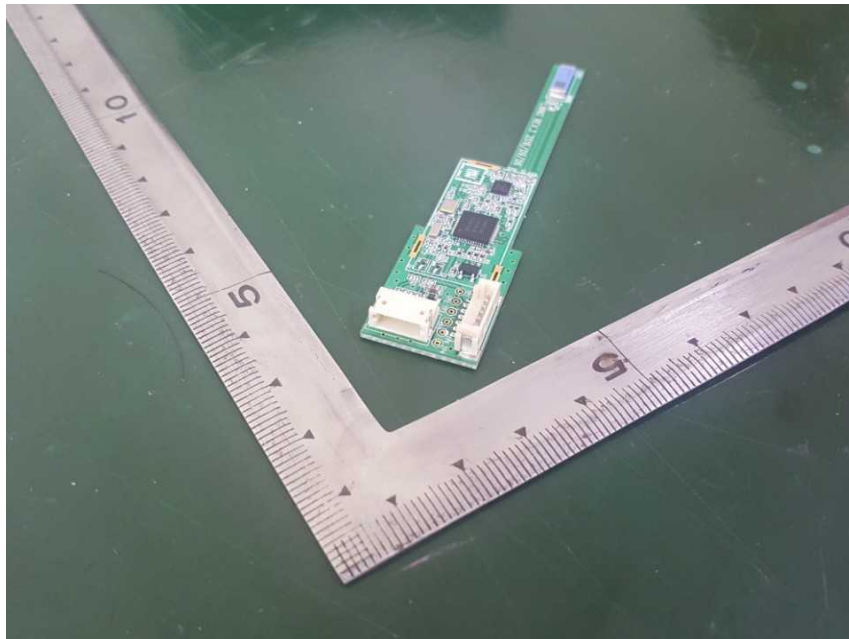


USER MANUAL

BLUETOOTH MODULE

MODEL: BMCL



Linno Inc.

※ Its radio equipment, there is a possibility of a radio wave interference.
Therefore, you can not service related to life safety.

1. Package

BLUETOOTH MODULE
User manual

2. Summary

- 1) It is installed in smart lighting and is used to control the status of lighting after connecting with smartphone.
- 2) Remote control of brightness and color of light

3. How to use

- 1) You need to install a separate smartphone app for control



4. Features

- 1) Bluetooth Spec : Ver 4.0 BLE
- 2) Chip Set : nRF51822 Rev.3 (Nordic)
- 3) Program Memory Size : 256KB Memory, 32KB RAM
- 4) Interface : PWM1 and PWM2 interface for lighting control
- 5) Antenna Type : Chip Antenna

5. Caution

- 1) If you randomly disassemble and repair, exchanged and A / S is not allowed.
- 2) Vulnerable to shock, please note, without a strong shock is not applied.
- 3) In the metal surface, there is a problem with the recognition and the recognition distance of the keyboard can be generated.

6. Specifications

- 1) Operating voltage: DC 1.8 V ~ 3.6 V
- 2) Communication Method: Wireless (Bluetooth)
- 3) Operating distance: 10 M
- 4) Output: Max +10 dBm
- 5) Receive sensitivity: -102 dBm typ.
- 6) Operating frequency
Send: 2.402 ~ 2.480 MHz, 2.4G ISM band
Reception: 2.402 ~ 2.480 MHz, 2.4G ISM band
- 7) Channel: 40 channels
- 8) Modulation scheme: GFSK
- 9) Channel spacing: 2 MHz
- 10) Profile: Bluetooth Ver 4.0
- 11) Protocol: Asynchronous serial communication
- 12) Size: 18 X 79 X 1.0 mm
- 13) Weight: About 4 g

7. A/S Inquiry

- Company : Linno Inc.
- Address : 96-22, Yangji-ro 281beon-gil, Onam-eup, Namyangju-si,
Gyeonggi-do, Korea
- Tel: +82-2-546-9820
- Fax: +82-2-546-9622
- Homepage : www.linno.com

Information for the OEM Integrators

This device is intended for OEM integrators only. It is only equipped in a host that

complies with the following condition:

1. It has power regulation circuit; the supply voltage for this module is 3.3 V dc.
2. It has an enclosure that covers all the PCB.

Label Information to the End User by the OEM or Integrators

If the FCC ID of this module is not visible when it is installed inside another device, then the outside of the device into which the module is installed must be label with

"Contains FCC ID: 2AMUZBMCL

FCC Information to User

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 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 con-nected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution

Modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Compliance Information : 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

1.

IMPORTANT NOTE:

FCC RF Radiation Exposure Statement:

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

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.

CONTACT INFORMATION

Manufacturer Address : 96-22, Yangji-ro 281beon-gil, Onam-eup, Namyangju-si, Gyeonggi-do, Korea

To locate in-country Linno Inc., distributors of the BMCL

please refer to the Linno Inc. Website <http://linno.co.kr/>

These distributor(s) represent local contacts for this product.

CORPORATE HEADQUARTERS:

Linno Inc

96-22, Yangji-ro 281beon-gil, Onam-eup, Namyangju-si, Gyeonggi-do, Korea

Tel: +82-2-546-9820

Fax: +82-2-546-9622

Web: <http://linno.co.kr/>

This device complies with Industry Canada license-exempt RSS standard(s).

Operation is Subject to the following two condition: (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.