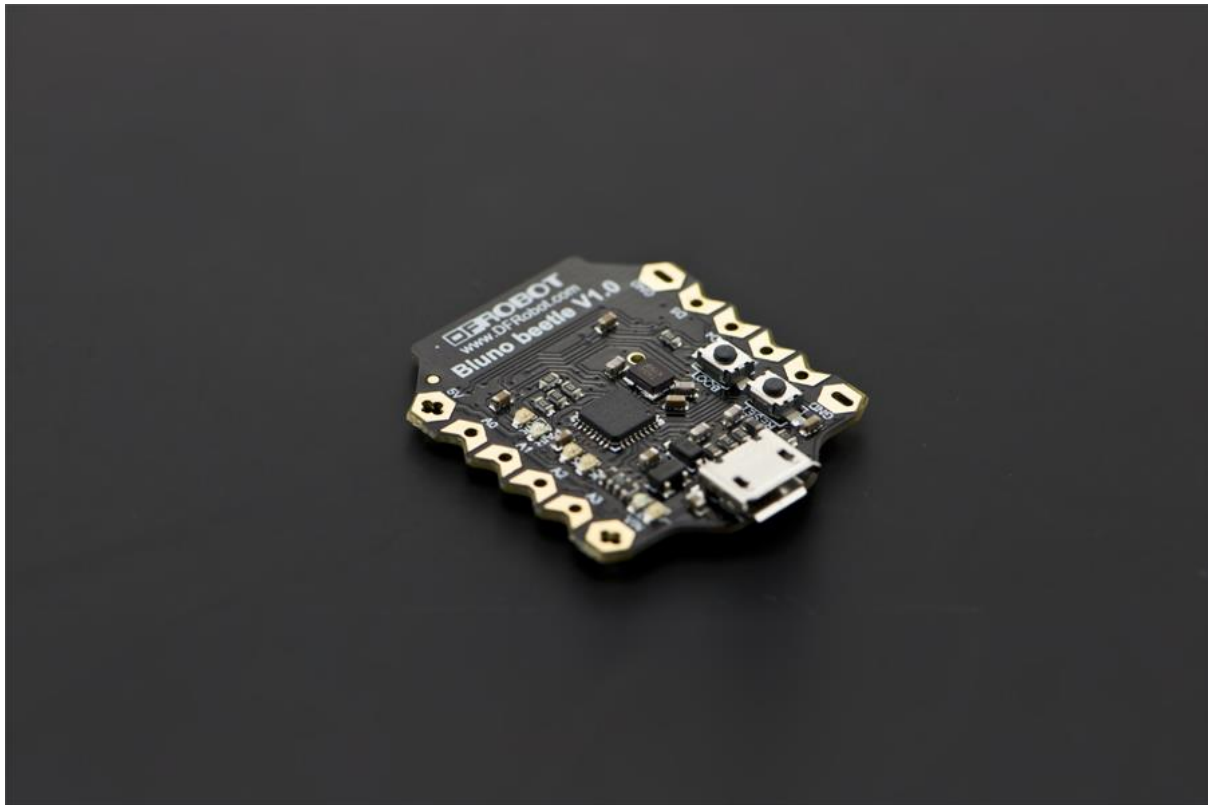




**DFROBOT**<sup>®</sup>  
DRIVE THE FUTURE

# DFRobot Beetle BLE - The Smallest Board Based on Arduino Uno with Bluetooth 4.0

SKU:DFR0339



## *INTRODUCTION*

The Beetle Ble (Former name as Bluno Beetle) is a board based on Arduino Uno with Bluetooth 4.0 (BLE). It is probably the smallest BLE board in the market. It uses standard Arduino IDE to upload codes via without any extra library and drivers. This Beetle BLE is another milestone in the Beetle line, which makes DIY users have more options in the project design. It is fully compatible with [Bluno](#) in instructions and procedures. Support Bluetooth HID and ibleacon modes. You may also check the [Bluetooth microcontroller selection guide](#) to get more information.

The Beetle BLE is a super tiny and low-cost Arduino-compatible board with Bluetooth 4.0. The Beetle BLE can be used for disposable projects, such as DIY projects, workshops, gift projects, E-Textiles wearable, and educational. For students and makers who can not afford too much on hardware purchasing, Beetle can be a great solution for them

Just like a native Arduino board, but with Bluetooth 4.0. An APP called Play Bluno is available on IOS and Android which gives quick access to this little tiny board.



**DFROBOT**<sup>®</sup>  
DRIVE THE FUTURE

It not only supports USB programming but also wireless uploading method. With the V-shaped gilded I/O interface, it is convenient to screw conductor wire on it, which could be a good choice in the wearable market.

## *FEATURES*

- ATmega328@16MHz
- Bluetooth Low Energy (BT 4.0)
- Micro USB port
- Super Compact Size
- Support Bluetooth HID and iBeacon
- Compatible with all DFRobot Bluno Series
- Support Wireless Programming

## *SPECIFICATION*

- Bluetooth Chip: CC2540
- Sensitivity: -93dBm
- Working Temperature : -10 °C ~ +85 °C
- Maximum Distance : 50m(164.04m)(Open field)
- Microcontroller: ATmega328
- Clock frequency: 16 MHz
- Operating voltage: 5V DC
- Input voltage: <8V ( $V_{in} < 8V$ )
- Digital Pin x4
- Analog Pin x4
- PWM Output x2
- UART interface x1
- I2C interface x1
- Micro USB interface x1
- Power port x2
- Size : 28.8mm X 33.1mm(1.13" x 1.30")
- Weight : 10g