



## Description

BugC is a programmable robot base compatible with the M5StickC. This has four DC motors, motor driver, two RGB LEDs, battery holder and a switch. The Bugc base needs to be used in conjunction with the M5StickC controller. The base comes with an STM32F030F4 micro controller which controls all the motors and LEDs and this is controlled through I2C protocol(0x38) by the M5StickC which sits on top of the base.

## Product Features

- remote control
- Programmable
- Four-way motor driver
- 4xGeared motors
- 2xRGBLEDs
- Simple and compact design
- Equipped with a battery holder
- Flexible movement in all directions

## Weight and Size

Size: 55mm \* 40mm \* 25mm

Output shaft:  $\varnothing$ 0.81mm

Weight: 34g

## Motor Specification

Rated voltage: 3.7V DC

Rated speed: 15000-2000rpm

Rated current: 50mA

Stall current: 70mA

Insulation resistance: 10M $\Omega$

## Applications

- RC motor
- Robot control
- Smart and cognitive toys

## Package Includes

- 1x BugC base
- 1x 16340 Battery(750mAh)

[click to download EasyLoader](#)

EasyLoader is a simple and fast program burner. Every product page in EasyLoader provides a product-related case program. It can be burned to the M5 device through simple steps, and a series of function verification can be performed.

After downloading the software, double-click to run the application, connect the M5 device to the computer through the data cable, select the port parameters, click "Burn" to burn the program (For M5StickC, set the baud rate to 750000 or 115200 )

## Example

### UIFlow



### Arduino

To get complete code, please click [here](#)