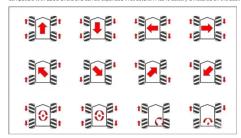
# RoverC ....



# Description

RowerC is a programmable, omnidirectional mobile robot base compatible with M5stickC, and can be started by inserting the M5stickC. The main controller of the base is the stm32f030f4 microcontroller. The base comes with N20 worm gear motors which are directly driven by a four-channel motor driver. These motors are connected to mecanium wheels which can move in experience in a feet of the base in the properties of the prope



### Product Features

IZC Address 0x38
Remote Control
Programmable
Four-channel motor driver
LEGO-compatible
Extra Grove ports for expansion
Equipped with 16340 battery holder
Flexible movement in all directions
Size: 75mm \*75mm \*55mm
Weight, 213g(include Battery)

### Instructions

Before use, please make sure that the roverc is fully charged. Charging method: insert mssticke into the roverc, and connect the USB cable for charging. Burn the easyloader firmware of Joyc and roverc with two MSStickC respectively. Insert Joyc and roverc respectively after burning. After power on, roverc will display the MAC address name and batter power. At the same time, Joyc will scan the MAC address name of roverc. Long press the a key of MSStickC on Joyc, and the work will be matched. Left rocker up and down control front and back, left and right control translation, right rocker left and fight control testing.

### Usage

Two MSSIckCs will be burned into the EasyLoader firmware of JoyC and RoverC respectively. After burning, they will be inserted into JoyC and RoverC respectively. After booting, RoverC will display the hotsport name of "MSAP-2 bytes mac address," and JoyC will scan the mac address name of RoverC. Press and hold the AS button of the MSSIckC on the JoyC for 3 seconds to start scanning the hotspot of the car, and the pairing is successful. After successful pairing, the link icon is highlighted in the upper left corner of the screen, and the joyCitick value is displayed on the screen. The left and right postions to pan, and the right rocker controls the steering.

# MotorControl

| Motor serial number | Register address | Parameter value |
|---------------------|------------------|-----------------|
| 01                  | 0x00             | -127~127        |
| 02                  | 0x01             | -127-127        |
| 03                  | 0x02             | -127-127        |
| 04                  | 0x03             | -127~127        |

# Pin Map

| M5StickC   | GPI026 | GPI00 | 5V | GND |
|------------|--------|-------|----|-----|
| RoverC HAT | SCL    | SDA   | 5V | GND |
| 1200       | SCL    | SDA   | 5V | GND |
| 1200       | SCL    | SDA   | 5V | GND |



# Applications

Autonomous Rover Mini RC surveilance car Smart and cognitive toys

# Package Includes

1x RoverC base(includes 750mAh Battery

Click to download EasyLoader

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

After downloading the software, double-click to run the application, connect the MS device to the computer through the data cable, select the port parameters, click "Burn" to burn the program (Fer MSStickC, set the band rate to 115300 or 750000)

# Example

# Set wheels pulse front-left \$ 50 front-right \$ 50 rear-left \$ 50 rear-right \$ 50 wat \$ 1 s Set RoverC speed X \$ 0 Y \$ 50 Y \$ 0 V \$ 50 V \$ 0 V \$ 50 V

Arduino IDE