

# Ring:bit v2.0

## 7.1. Introduction of Ring:bit car 2

The ELECFREAKS Ring:bit Car is a small DIY smart car driven by the BBC micro:bit and the ELECFREAKS Ring:bit. The Ring:bit extends the micro:bit's 3 GPIO ports and allow for different sensors and components to be easily attached to the micro:bit. A basic Ring:bit Car can be easily programmed to run autonomously, with a remote control, and even create rainbow beacons of light. Just add one of the many extensions available and your Ring:bit Car can do even more things like line and light following, obstacle avoiding, drawing and more!

*Please note that the Ring:bit car version 2 has been upgraded. It is different from the Ring:bit car version 1. All related documents refers to the Ring:bit car version 2. \*Information of the Ring:bit car version 1 :*

## 7.2. Components list

| Components                   | Numbers  | Pictures |
|------------------------------|----------|----------|
| micro:bit                    | Optional |          |
| Ring:bit Expansion Board     | 1        |          |
| Ring:bit Car Expansion Board | 1        |          |
| Ring:bit Car Front Board     | 1        |          |
| Ring:bit Car Back Board      | 1        |          |
| Ring:bit Car Base Board      | 1        |          |

| <b>Components</b>       | <b>Numbers</b> | <b>Pictures</b> |
|-------------------------|----------------|-----------------|
| Ring:bit Car Side Board | 2              |                 |
| Ring:bit Car Wheel      | 2              |                 |
| Binding Post            | 1              |                 |
| 360° Servo              | 2              |                 |
| Castor Wheel            | 1              |                 |
| Screw                   | 5              |                 |
| Tapping Screw           | 5              |                 |
| Rivet                   | 2              |                 |
| Screwdriver             | 1              |                 |
| Rubber Band             | 1              |                 |