

bit:Rover



bit:Rover is a "plug and play" mini rover kit built specifically for the Micro:Bit microcontroller. Users can simply upload codes to the Micro:Bit, plug it into the bit:Rover and they will have a fully functional robot!

- Front light sensors: Enables bit:Rover to track and follow ground path.
- Ultrasonic sensor : Enables bit:Rover to detect and avoid obstacles on its own.
- Programmable RGB LEDs: Enables bit:Rover to have visual notification or response of its status.
- Micro:bit socket: Enables bit:Rover to have quick plug and play feature, and easy access to the Micro:bit board.
- Servo powered wheels: Enables bit:Rover to move around.

Technical Specifications

Microcontroller: Micro:bit
 Power: 3.7V (lithium polymer battery x 1)
 Inputs: 2 light sensors & 1 ultrasonic sensor
 Outputs: 2 servo motors / 2 RGB LED

bit:Arm



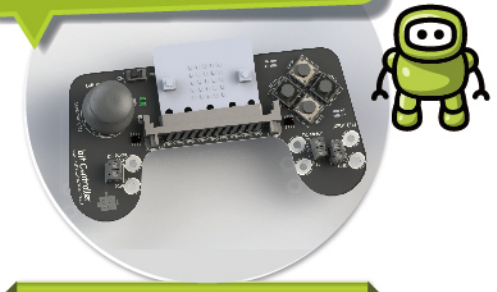
bit:Arm is a Built-it-yourself mini robotic arm kit powered by the Micro:bit controller. The kit includes everything you need to build a mini robotic arm for various fun tasks like grabbing up objects on the table and move it to near you, or challenge yourself to move small objects to a target position only with bit:Arm.

- Plug and Play: Micro:bit socket Enables Micro:bit and bit:Arm to become one object while detaches easily.
- Easy to assemble: Pre-cut sockets and mounting holes for easy installation and secure connections. All you need is a screwdriver and a little patient.
- Programmable with Micro:bit: Micro:bit enables bit:Arm to achieve custom tasks and cooperate with other devices that to compatible with the Micro:bit microcontroller.

Technical Specifications

Microcontroller: Micro:bit
 Power: 3.7V (lithium polymer battery x 1)
 Inputs: 2 light sensors
 Outputs: 4 servo motors / 2 RGB LED

bit:Controller



Although the Micro:bit can work as a standalone controller device, the 2 physical buttons on the Micro:bit board are not quite enough when you want to use the Micro:bit as a controller to play games, control various devices, or simply control a vehicle robot.

- Joystick: Enables user to control movement, actions with variables in any directions.
 - D-Pad: Enables user to control movement in the classic Up, Down, Left, Right, way.
 - Expandable: The bit:Controller has the ability to control external DC motors and connect to external sensors. Enabling it to be used with the EDbotic Blocks STEM Education Kit and Fischertechnik robotic Kit.
- Microcontroller: Micro:bit
 Power: 3.7V (lithium polymer battery x 1)

Technical Specifications

Inputs: D-pad x1(4 buttons) / Joystick / 1 analog input / 2 digital inputs
 Outputs: 3 DC motor ports