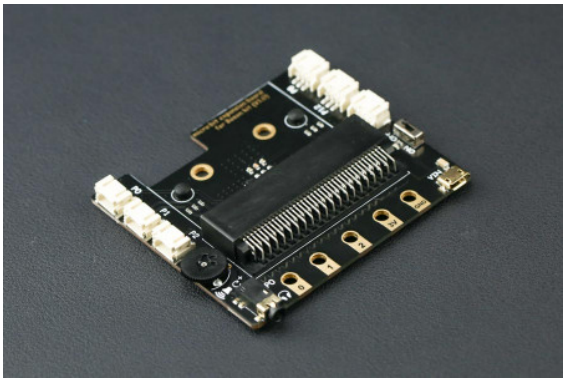
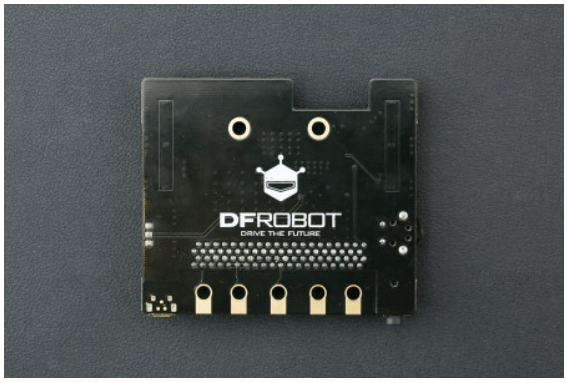
micro:bit Expansion Board for Boson (Gravity Compatible)

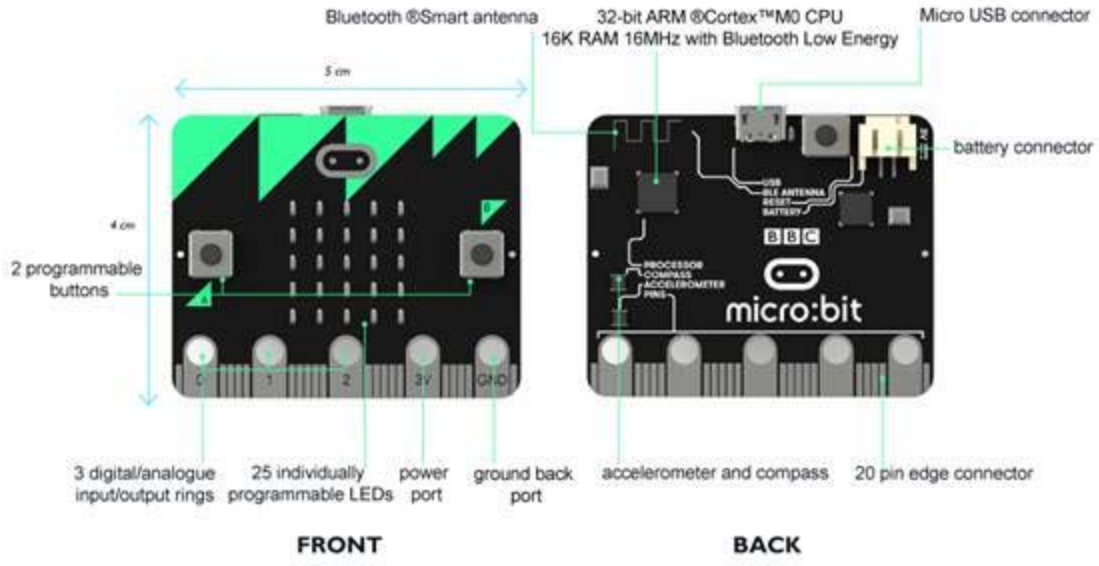
SKU:DFR0521





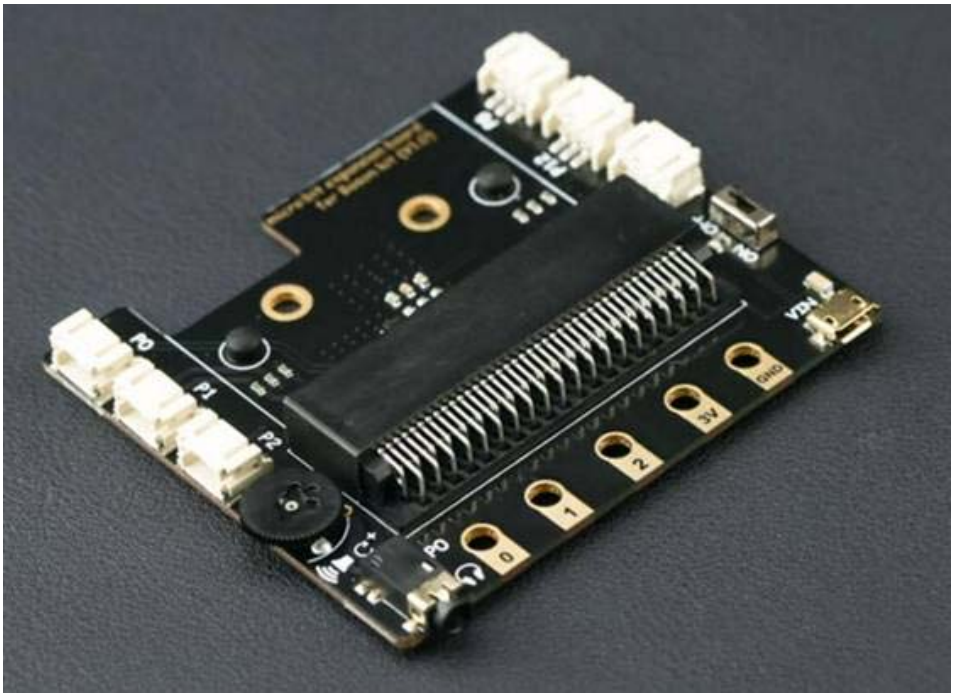
INTRODUCTION

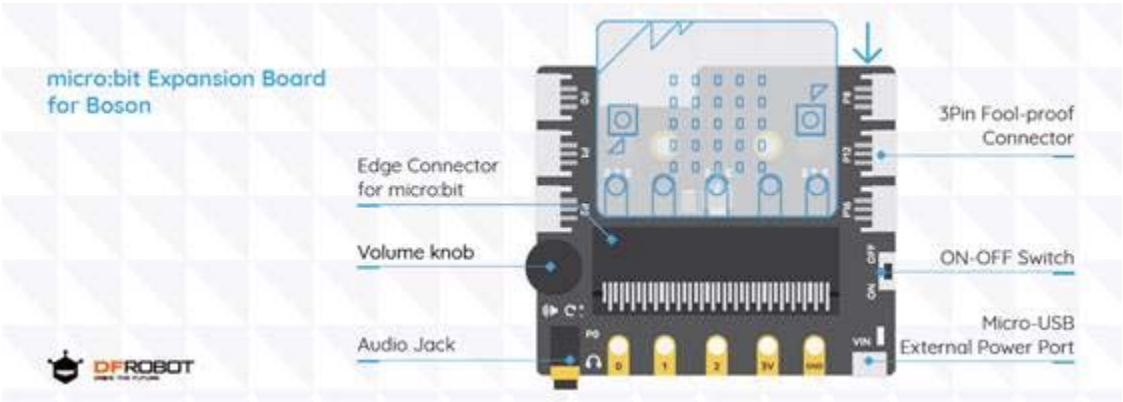
micro:bit is a pocket-sized microcontroller designed for kids and beginners to learn coding and electronics, letting them easily bring ideas into DIY digital games, interactive projects and robotics.



Micro:bit

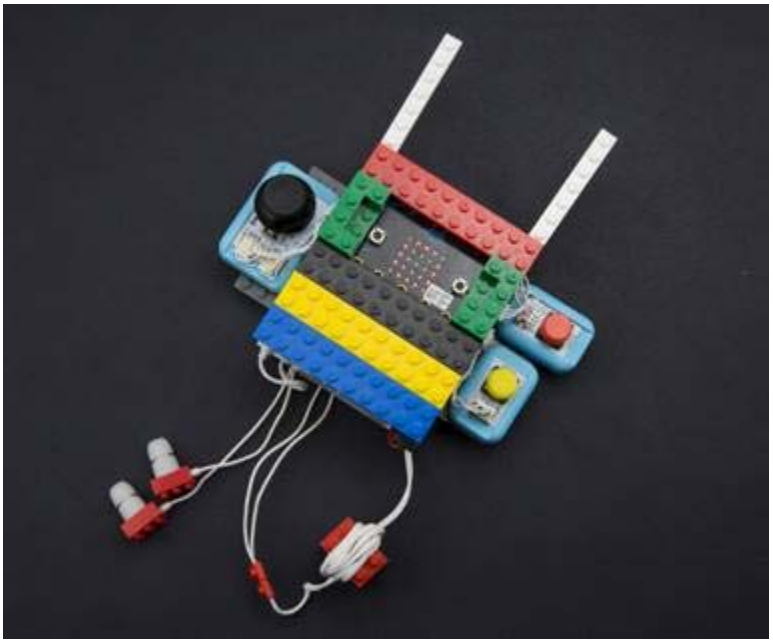
However, on-board I/O rings and crocodile clips sometimes are not handy and safe enough to connect peripherals. To explore more possibilities with micro:bit, we have designed the micro:bit Expansion Board for Boson, a carry-on board that connects to micro:bit via edge conector.



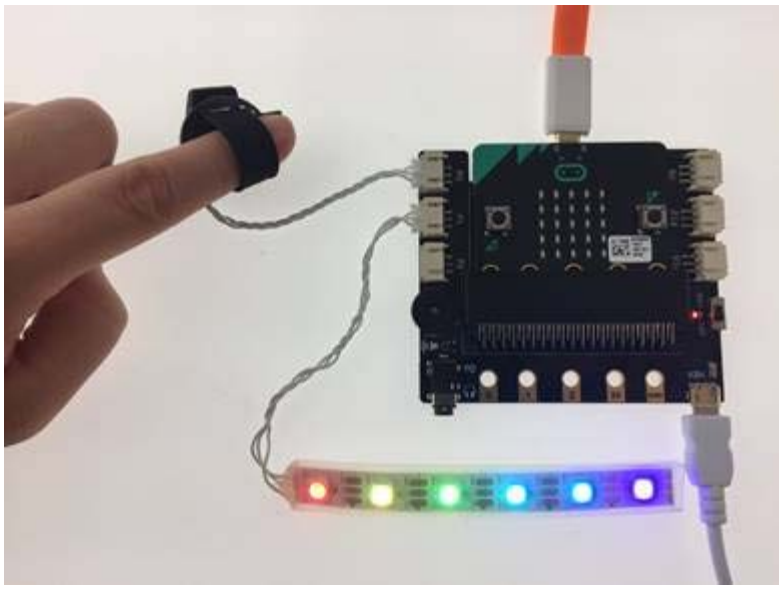


The expansion board comes with 6 fool-proof 3-Pin sockets, compatible with hundreds of DFRobot's Boson and Gravity modularized electronic blocks, covering most popular digital and analog sensors and actuators, supporting sound, light and motion interaction.
Click the link to learn more about DFRobot's Boson module: https://www.dfrobot.com/boson
Click the link to learn more about DFRobot's Gravity module: https://www.dfrobot.com/gravity

Moreover, the on-board 3.5MM headphone jack and volume knob supports direct connection of headphone.
To ensure a steady current supply for these peripherals, the expansion board can be powered externally through the USB power port.



micro:bit Boson game pad



micro:bit RGB LED heart rate monitor

Gravity electronic module recommendation (micro:bit compatible):

	Digital Capacitive Touch Sensor
	Digital PIR (Motion) Sensor

	Analog Rotation Potentiometer
	Digital Speaker Module
	Analog Grayscale Sensor
	Analog Sound Sensor
	Joystick Module

	Analog Slide Position (Potentiometer) Sensor
	Heart Rate Monitor

FEATURES

- 3-Pin fool-proof connector x 6
- Headphone jack with volume knob
- External power port and ON/OFF switch
- DFRobot Gravity and Boson electronic module compatible

SPECIFICATION

- MicroUSB Power Port Voltage：5V
- PH2.0 Input/output Voltage: 3.3V
- Input/output ring Voltage: 3.3V
- Maximum Current: 500mA
- Working temperature: 0-85 ℃
- Dimension 80 * 70 mm / 3.15 * 2.76
- Weight: 48g

SHIPPING LIST

- micro:bit Expansion Board for Boson x 1
- 200mm fool-proof PH2.0 cable x 6