

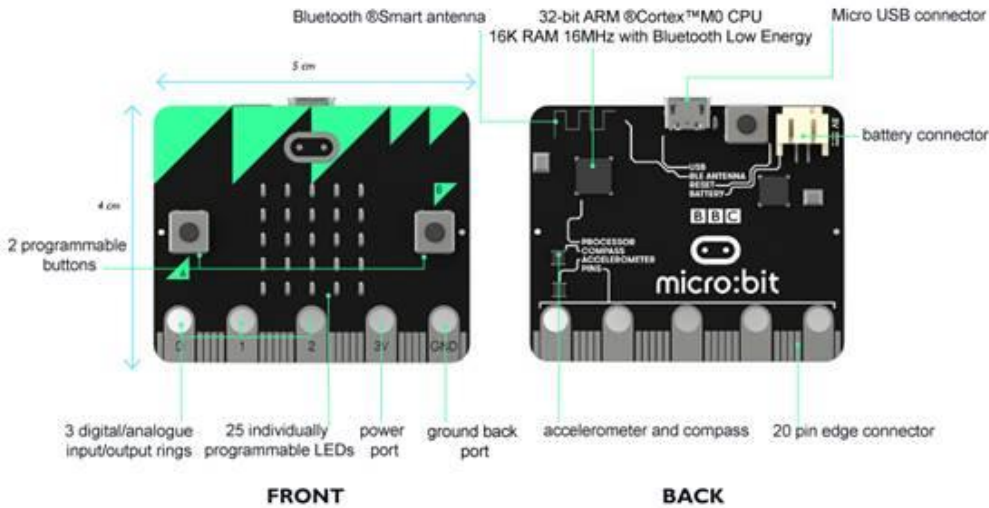
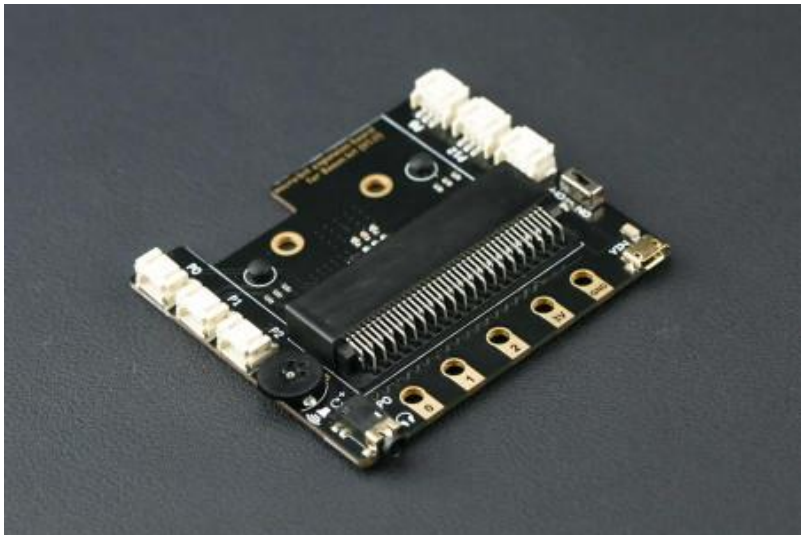


Part Number: DFR0521

Description: micro:bit Expansion Board for Boson (Gravity Compatible)

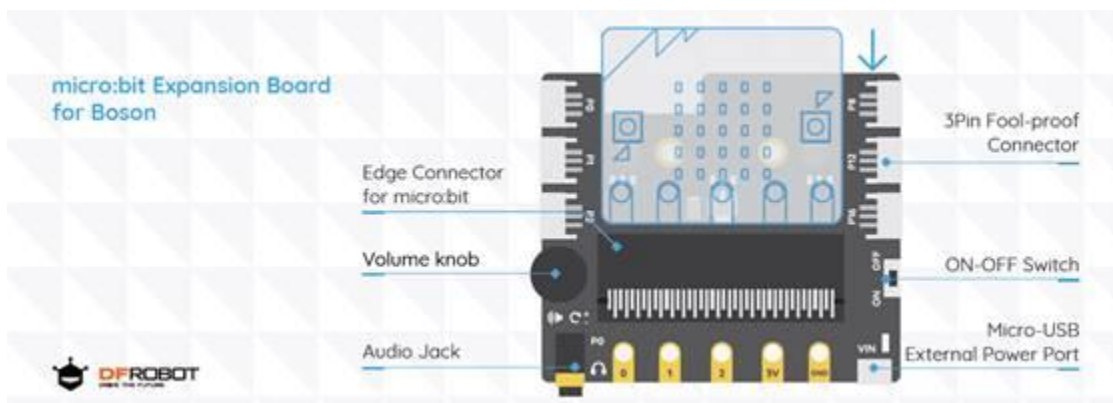
INTRODUCTION

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 connector.



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>

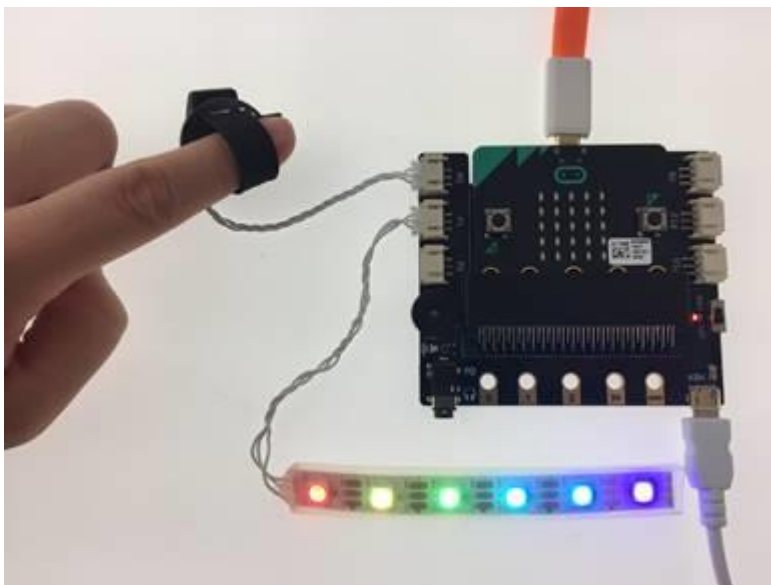
Click the link to learn more about DFRobot's Gravity module: <https://www.dfrobot.com/gravity>

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

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 °C
- 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