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

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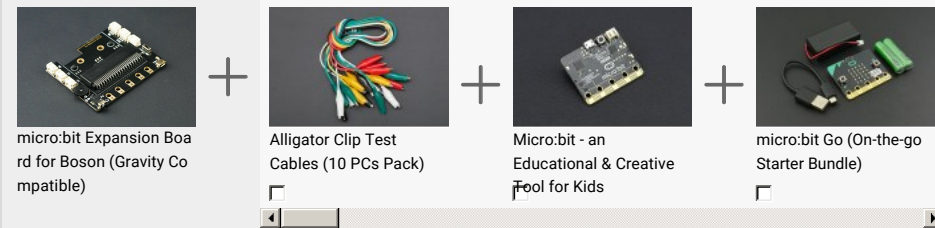
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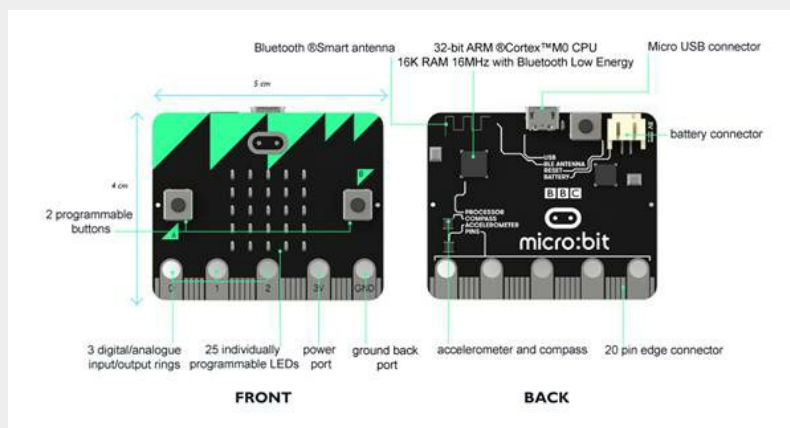DOCUMENT
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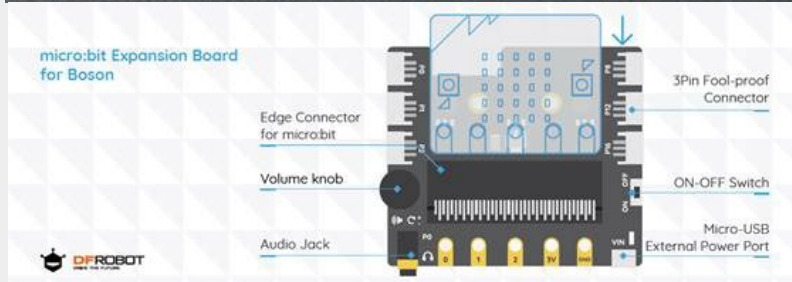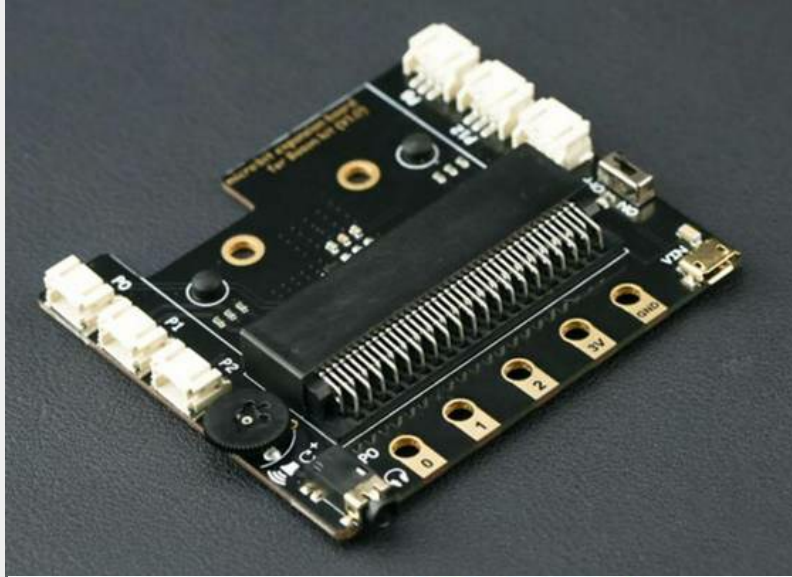
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# INTRODUCTION

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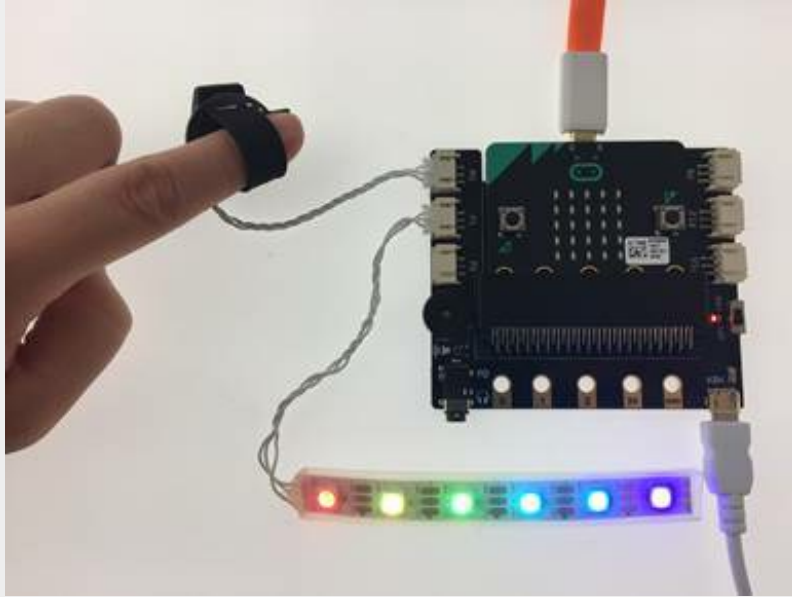Click the link to learn more about DFRobot's Boson module: https://www.dfrobot.com/boson
Click the link to learn more about DFRobot's Gravity module: https://www.dfrobot.com/gravity

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*

Gravity electronic module recommendation (micro:bit compatible):

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## 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

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## 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

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## DOCUMENTS

micro:bit Educational Foundation
micro:bit online Block edicter
micro:bit website

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## SHIPPING LIST

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

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## PROJECTS

Project 1. Micro:bit Surprise box
In this project it shows how the box interacts with flahsing hearts.
Main Components:
micro:bit
DFRobot micro:bit Expansion Shield
DFRobot Ambient Light Sensor
Servo Motor 9g

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## REVIEW

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DFRobot — Hi Marciokoko, Thank you for leaving us a comment! I just added the code into the article. Kindly check for your reference :) Best wishes for your project!

**Gravity IO Expansion Shield for LattePanda**

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DFRobot Support — There are some left in stock, you can place the order directly.

**Gravity: Analog TDS Sensor/Meter for Arduino**

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James Russo — Why would this not support continuous monitoring? I'd love a system which would support 3 probes like the ones from HM Digital which have temperature already …

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DFRobot Support — I think it is Amazon Alexa, you can find it in App Store.

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