Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

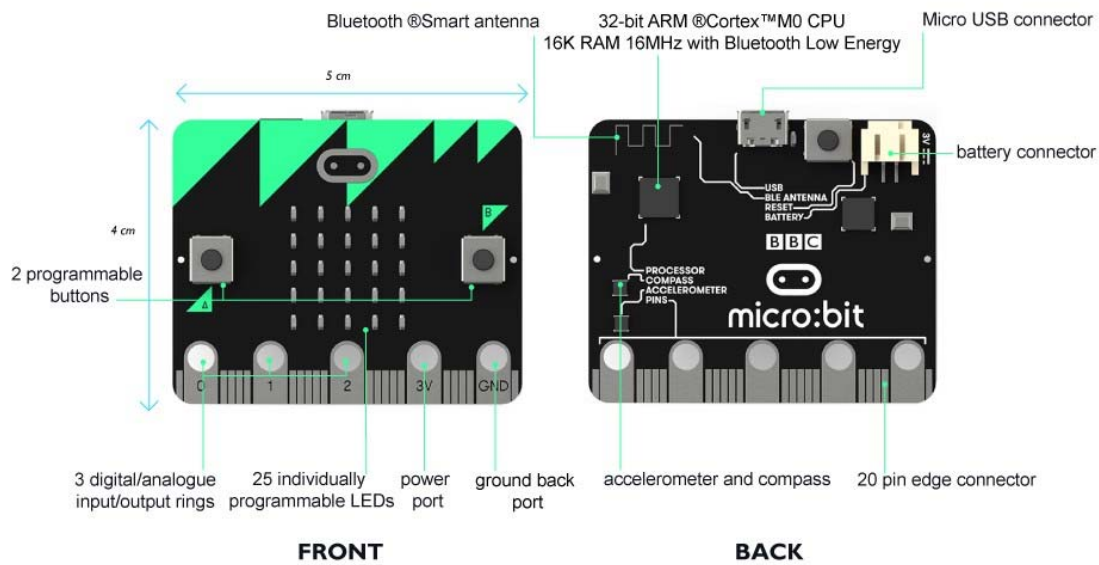## Contact us

Boson Starter Kit for micro:bit
SKU:TOY0086

INTRODUCTION

Boson Starter Kit for micro:bit is currently in the status of pre-order and will be shipped in the end of October. 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.

Bluetooth ®Smart antenna 32-bit ARM ®Cortex™M0 CPU Micro USB connector
16K RAM 16MHz with Bluetooth Low Energy

5 cm

4 cm

2 programmable buttons

USB
BLE ANTENNA
RESET
BATTERY

battery connector

BBC

PROCESSOR
COMPASS
ACCELEROMETER
PINS

micro:bit

3 digital/analogue input/output rings | 25 individually programmable LEDs | power port | ground back port | accelerometer and compass | 20 pin edge connector
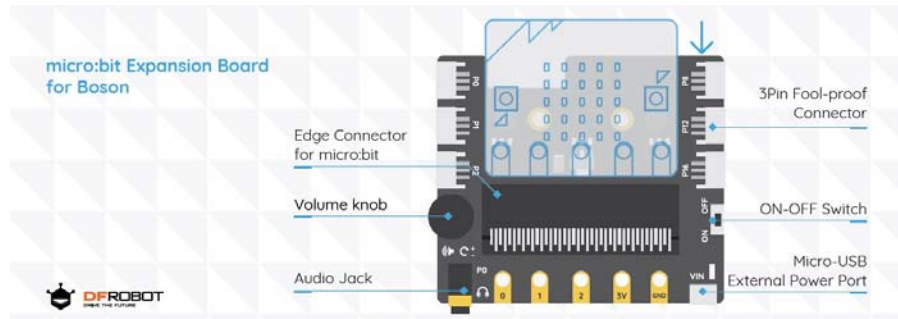
FRONT   **BACK**

Micro:bit

To explore even more possibilities with micro:bit, we have now combined it with DFRobot's Boson modules, a set of modularized electronic blocks, suitable for every kids to start their hands-on journeys of creation.

DFRobot's Boson starter kit for micro:bit includes 8 well selected modules, covering most popular digital and analog sensors and actuators, supporting sound, light and motion interaction. Modules communicates to micro: bit via **3-Pin interface** and are perfectly compatible with Microsoft MakeCode JavaScript online Editor and Python Editor.
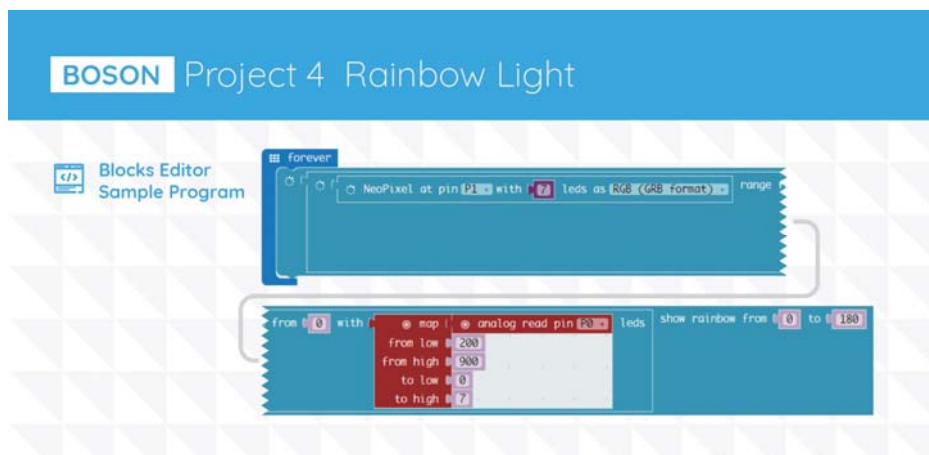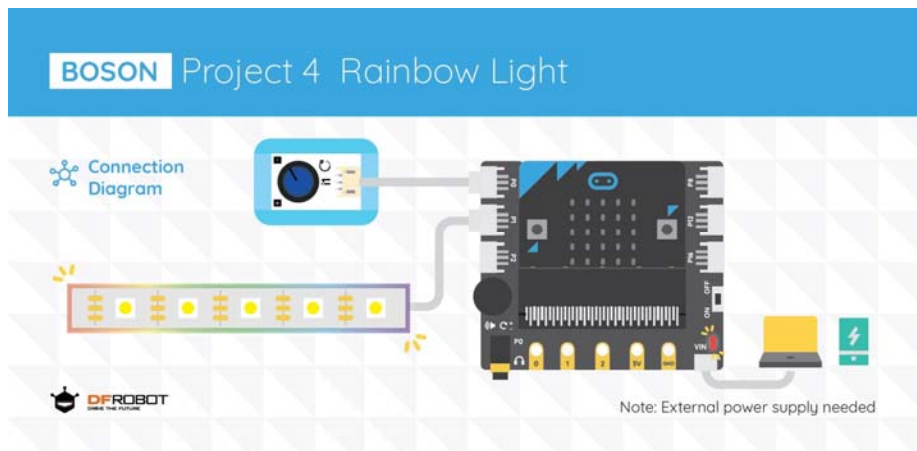
Click the link to learn more about DFRobot's Boson module https://www.dfrobot.com/boson

The micro:bit expansion board for Boson is used to hoop up Boson modules to micro:bit. The expansion board comes with an edge connector, 6 fool-proof 3-Pin sockets, a 3.5MM headphone jack and a volume knob. Moreover, to ensure a steady current supply for motor and servo, the expansion board can be powered externally through the USB power port.

Note: USB power port CANNOT be used to upload program.

To help you easily understand the usage of each module, the kit is provided with a quick start guide, including 4 basic projects with wiring and sample codes. Walk through the guide and create your own invention!

Note: micro:bit is NOT included in the kit. You will need to purchase separately.

FEATURES

- Designed for micro:bit

- 8 most popular electronic modules with tutorial

- Compatible with Lego, screws, Velcro, magnets and more

SPECIFICATION

- Module Input/output Voltage: 3.3V

- Maximum Current: 500mA

- MicroUSB Power Port Voltage : 5V

- Working temperature: 0-60 ℃

- package size: 250*190*57 mm/ 9.84 * 7.5 *2.24 inches

- Weight: 492g

SHIPPING LIST

- micro:bit expansion board for Boson kit x 1
- Red Push Button x 1
- Red LED Light x 1
- Rotation sensor x 1
- Sound Sensor x 1
- Motion sensor x 1
- Mini Fan Module x 1
- Mini Servo x 1
- RGB LED strip x 1
- Micro USB Cable x 1
- 3-Pin Cable (Long) x 1
- 3-Pin Cable (Medium) x 1
- 3-Pin Cable (Short) x 1
- Quick Start guide x 1