

# BOSON Inventor Kit

TOY0083

## Product Overview

07/20/2022

For the most up-to-date information, visit [www.mouser.com](http://www.mouser.com) or the supplier's website.

## Description

DFRobot BOSON Inventor Kit is a set of coding-free electronic building blocks for young inventors, enthusiasts, STEM educators, and designers. This TOY0083 Boson kit breakdowns complicated circuits into simple, functional modules to easily understand. These modules can be fixed on a variety of materials such as paper, wood, fabric, or whiteboards using built-in magnets, Velcro, and LEGO. The inventor kit requires no soldering and is ideal as a STEM classroom teaching tool. This Boson kit offers a total of 37 modules including 7 input modules, 6 actuators, 18 functions, and 6 power modules. The inventor kit features 12 activity cards to build interactive projects with LEGO blocks, wearable materials, and attached cardboards instantly. The TOY0083 Boson kit uses DFScratch software and provides Bluetooth®/Wi-Fi® accessibility for wireless communication.



## Kit Contents

- Input modules:
  - 1 x rotation sensor
  - 1 x push button
  - 1 x self-locking switch
  - 1 x light sensor
  - 1 x tilt switch
  - 1 x sound sensor
  - 1 x motion sensor
- Output modules:
  - 1 x ultra-bright LED
  - 1 x LED string light
  - 1 x buzzer module
  - 1 x voice recorder module
  - 1 x motor controller module with geared motor
  - 1 x servo controller module with servo
- Power:
  - 2 x mainboard-3IO
  - 3 x mainboard-1IO
  - 1 x 3 x AAA battery holder

*The information contained in this document should be used as a guideline only.*

## Kit Contents

- Function modules:
  - 3 x logic AND module
  - 3 x logic OR module
  - 3 x logic NOT module
  - 3 x splitter module
  - 2 x threshold module
  - 2 x reversible counter module
  - 2 x duration module (0-60s)
- Accessories:
  - 12 x activity cards
  - 5 x project cardboard
  - 1 x microUSB cable
  - 20 x cable (5cm)
  - 20 x cable (10cm)
  - 20 x cable (15cm)
  - 2 x velcro pack
  - 2 x screw pack

## Specifications

- 22mm x 34mm/34mm x 48mm dimensions
- 130mm x 220mm x 300mm package dimensions

## Modules Are Intuitively Coded In Different Colors



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## Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.com/new/dfrobot/dfrobot-boson-inventor-kit/>