

# Micro: IO-BOX Expansion Board

MBT0005

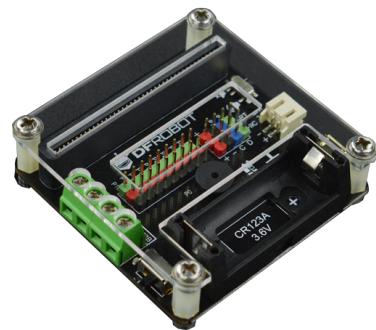
## Product Overview

07-21-2022

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

## Description

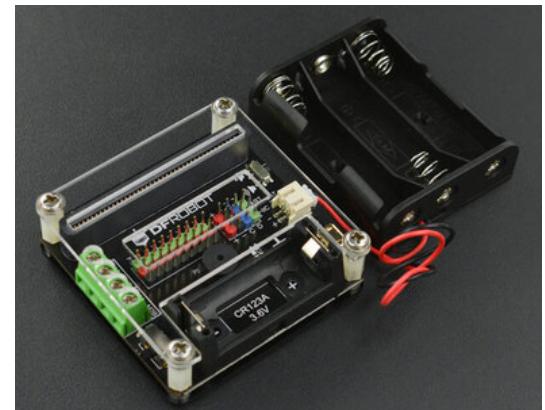
DFRobot Micro: IO-BOX Expansion Board is a micro: bit multifunctional expansion board with onboard Li-ion CR123A battery power. This CR123A is a 3.6V and 1000mA lithium rechargeable battery with small size, high capacity, and high safety. There is a short circuit and reverse connection protection to further improve the safety of using the Li-ion battery.



The Micro: IO-BOX comes with a 2-way driver motor, 9-way IO port, 2-way I<sup>2</sup>C port, 1-way serial port, Li-ion battery box, 1-way buzzer, 4-way RGB LED, emergency power interface, and charge circuit. This expansion board is designed with a durable and indestructible outer protective cover. The Micro: IO-BOX employs a high-cost boost-buck power management solution that provides a stable power supply.

## Features

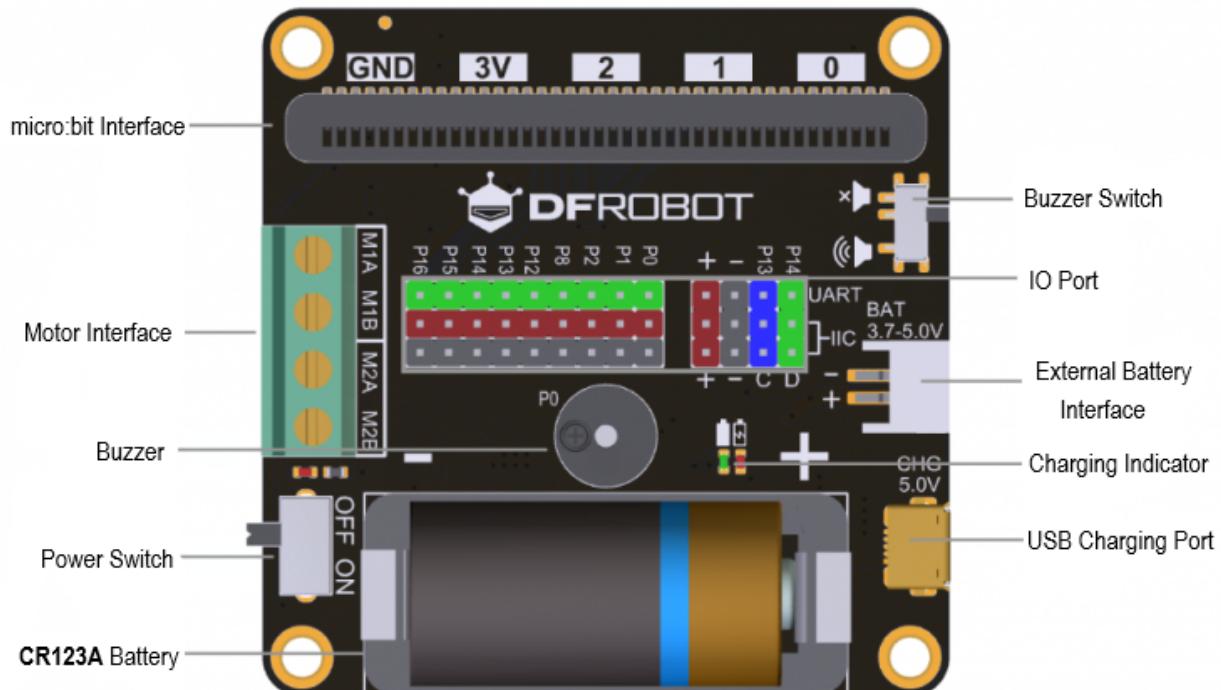
- Onboard CR123A Li-ion rechargeable battery
- Delicate appearance
- Easy to use
- Durable and indestructible outer protective cover
- Employs high-cost boost-buck power management solution
- Micro-USB 5V charging interface that supports computer USB charging and cell phone charger
- Comes with integrated:
  - 2-way driver motor
  - 9-way IO port
  - 2-way I<sup>2</sup>C port
  - 1-way serial port
  - 1-way buzzer
  - 4-way RGB LED
  - Charge circuit
  - Emergency power interface



## Specifications

- 350mA charging current
- 2.5 hours charging time
- 4.5V to 5.5V supply voltage range
- 0V<sub>DC</sub> to 3.3V<sub>DC</sub> analog input voltage
- 61mm x 61mm dimension
- 6 hours continuous usage time
- 0V/3.3V digital output voltage

## Overview



## Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.com/new/dfrobot/dfrobot-micro-io-box/>