

Micro: IO-BOX Expansion Board

MBT0005

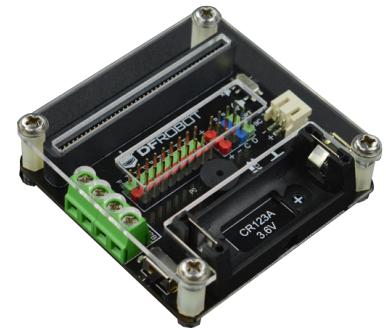
Product Overview

07-21-2022

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

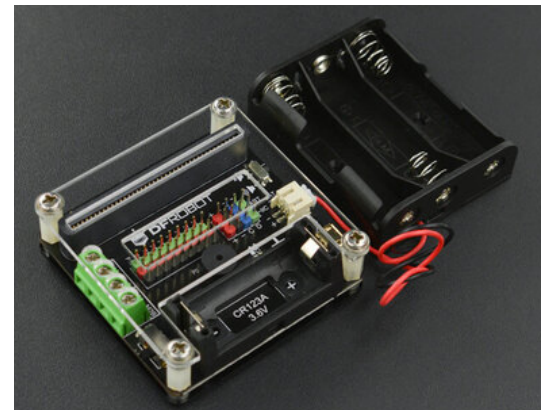
DFRobot Micro: IO-BOX Expansion Board is a micro: bit multifunctional expansion board with onboard Li-ion CR123A battery power. This CR123A is a 3.6V and 1000mA lithium rechargeable battery with small size, high capacity, and high safety. There is a short circuit and reverse connection protection to 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 I²C 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

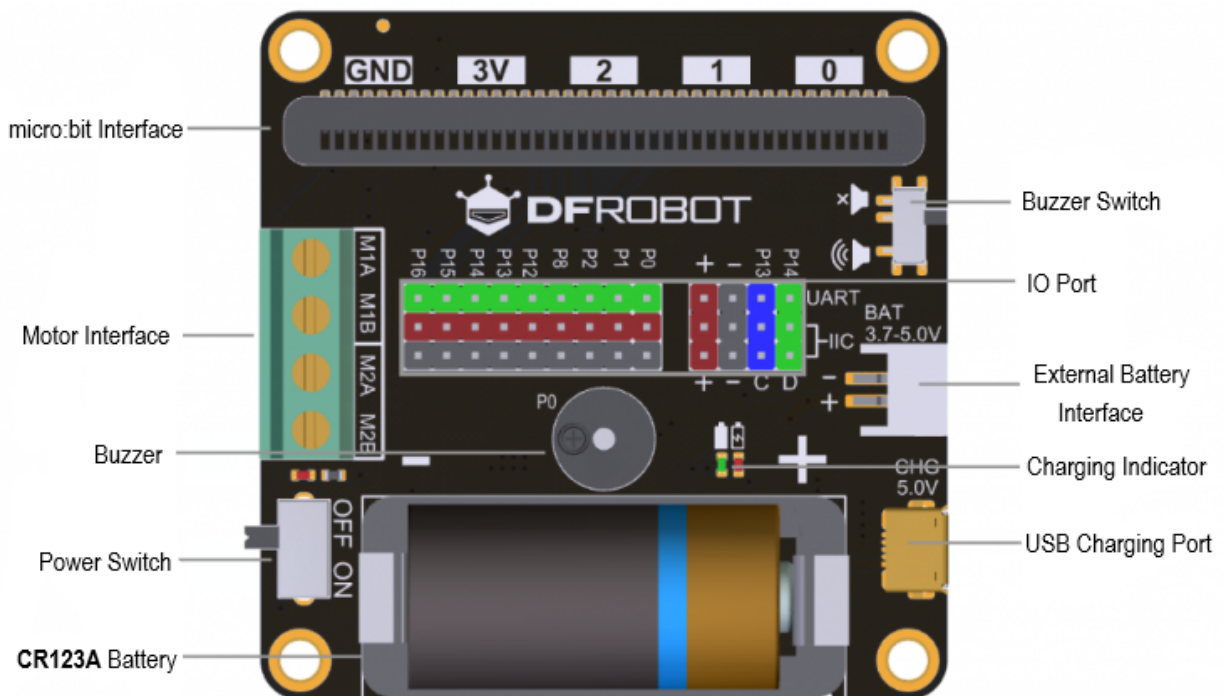
- Onboard CR123A Li-ion rechargeable battery
- Delicate appearance
- Easy to use
- Durable and indestructible outer protective cover
- Employs high-cost boost-buck power management solution
- Micro-USB 5V charging interface that supports computer USB charging and cell phone charger
- Comes with integrated:
 - 2-way driver motor
 - 9-way IO port
 - 2-way I²C 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_{DC} to 3.3V_{DC} analog input voltage
- 61mm x 61mm dimension
- 6 hours continuous usage time
- 0V/3.3V digital output voltage

Overview



Mouser Part Number

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