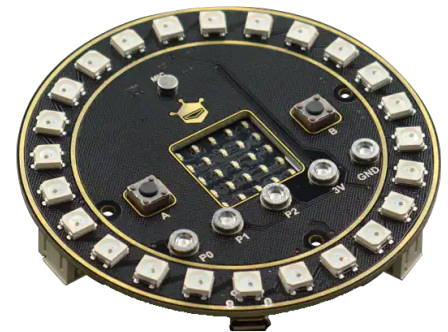# micro: Circular RGB LED Expansion Board
ROB0150

Product Overview
07-13-2022
For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

DFRobot ROB0150 micro: Circular LED Expansion Board can be designed to be used as a clock, timer, turntable game, wearable ornament, or interactive pendant. This board can be turned into a tomato timer via the onboard buzzer and a colorful music spectrometer through the onboard microphone. The micro: circular LED expansion board has two external ports, P0 and P1 to provide additional ways to play games by connecting a large number of boson and gravity sensors. This board supports a USB interface power supply and direct use of a power-bank power supply or USB computer power supply.

This micro: circular LED expansion board also supports PH2.0 interface power supply and the battery box or lithium battery power supply. The micro: circular LED expansion board features a MakeCode graphical programming and ultra-thin volume that is more suitable for wearable and strap applications.
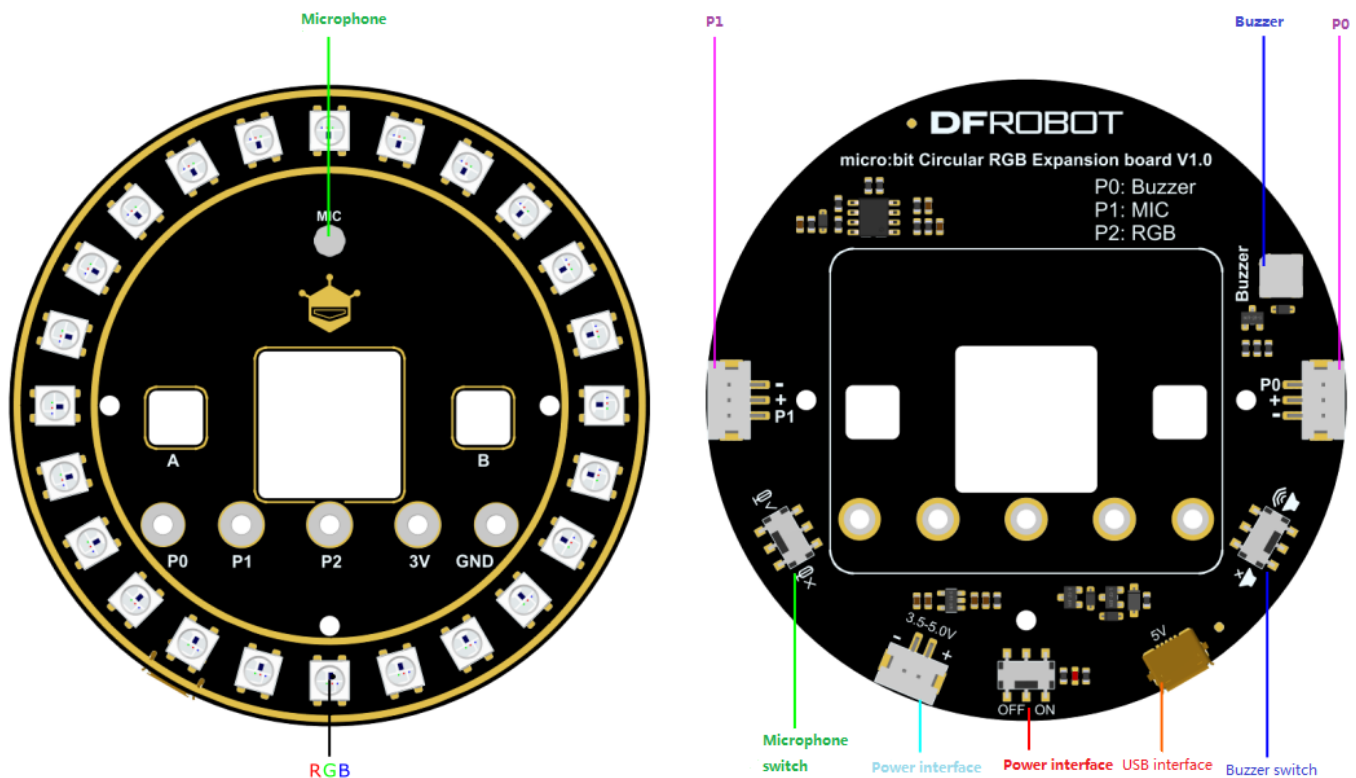
Features

- Support USB interface power supply and direct use of power-bank power supply or USB computer power supply.
- Support PH2.0 interface power supply and the battery box or lithium battery power supply are both OK.
- 24 RGB single-line lights, 16 million colors free mixing
- Make code graphical programming
- Onboard microphone and buzzer
- Leaded out P0 and P1 interfaces, and distribute with the connection line, support the boson expansion modules
- Ultra-thin volume, more suitable for wearable and strap applications

Specifications

- 3.5V to 5V supply voltage
- 24x WS2812 single-line RGB LEDs
- 1x onboard buzzer
- 1x onboard microphone
- Number of interfaces:
- 2x IO expansion board (P0, P1)
- 1x PH2.0 power interface
- 1x USB power interface

Board Overview

Mouser Part Number

View Part

To learn more, visit https://www.mouser.com/new/dfrobot/dfrobot-circular-led-expansion-board/