

Beetle CM-32U4 Micro Leonardo Controller

DFR0816

Product Overview

01/03/2023

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

Description

DFRobot Beetle CM-32U4 Micro Leonardo Controller is ideal for Arduino projects that require compact size and long service life. This CM-32U4 controller features commonly-used communication interfaces, including I²C, SPI, UART, two analog, and two digital interfaces. This beetle CM-32U4 controller supports official Leonardo firmware, where the extra download is not required to use Arduino IDE.



The CM-32U4 micro Leonardo controller integrates the charging management function for the Lithium battery, and the battery can be connected to the board via pins. This beetle controller utilizes three power supply methods: a USB power supply, a battery pack power supply on the BAT pin, and a 5V external power supply on the VIN pin. Typical applications include DIY projects, gift projects, workshops, and wearable e-textiles.

Features

- Rich functions
- Small size
- Significantly increase the service life

Specifications

- 5V_{DC} operating voltage
- 600mA maximum charging current
- 200mA minimum charging current
- -40°C to 125°C operating temperature range
- Interface:
 - 1 x I²C, 1 x SPI, 1 x UART, 2 x analog, and 2 x digital
- 22mm x 20.5mm (0.87inch x 0.81inch) dimensions

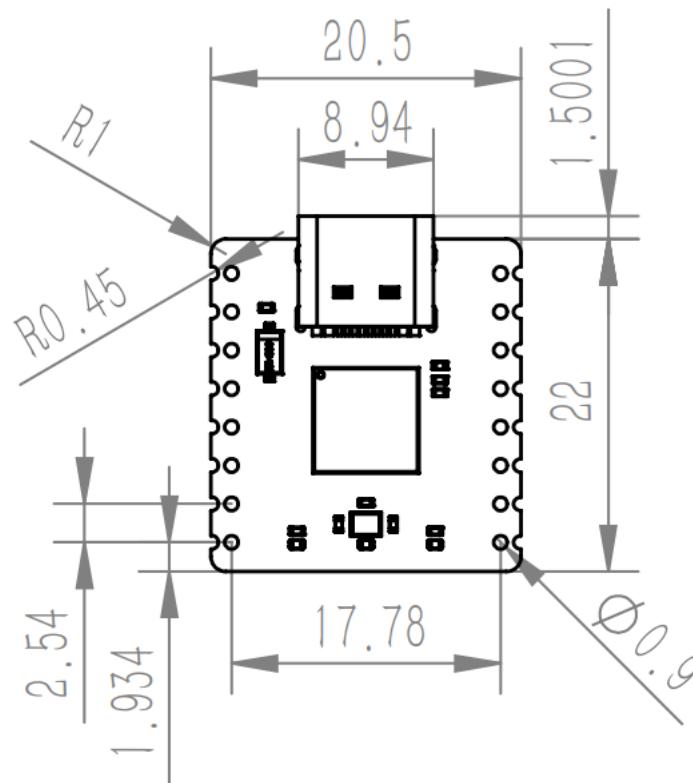
Applications

- DIY projects
- Workshops
- Gift projects
- E-Textiles wearable

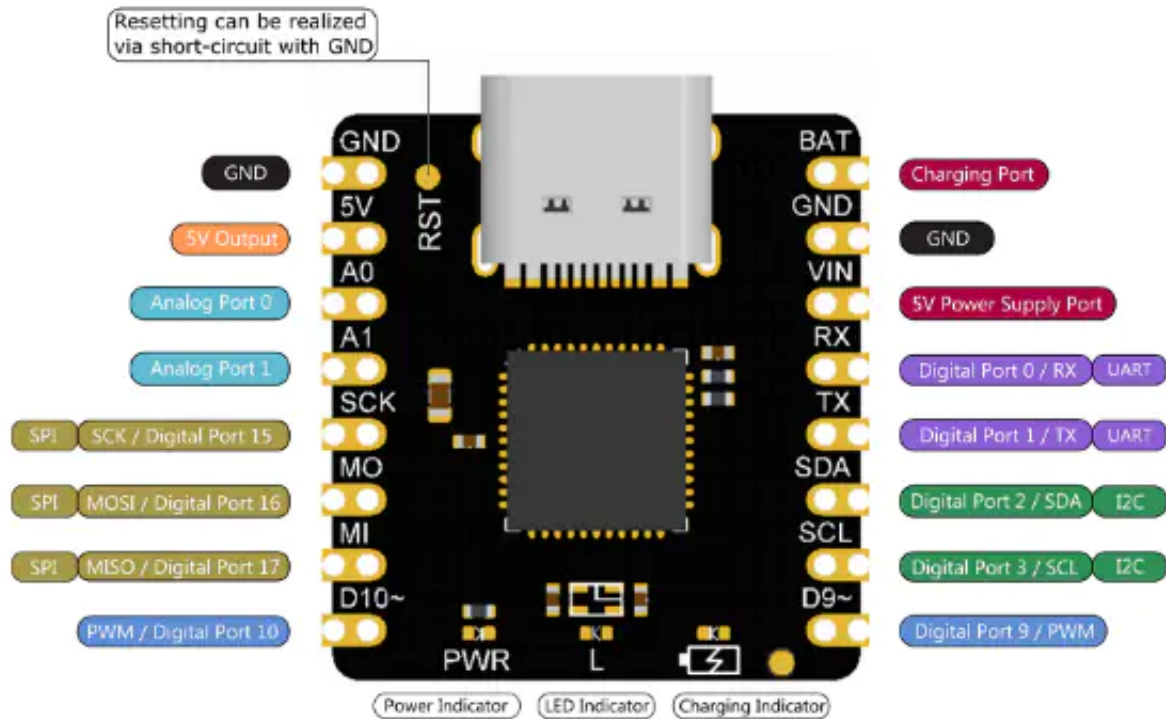
Kit Contents

- 1 x Beetle CM-32U4
- 2 x 8pin-2.54mm pin header

Dimension Diagram



Board Overview



Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.com/new/dfrobot/dfrobot-cm-32u4-micro-leonardo-controller/>