

Keystudio Micro:bit DRV8833 Motor Driver Expansion Board

KS4033



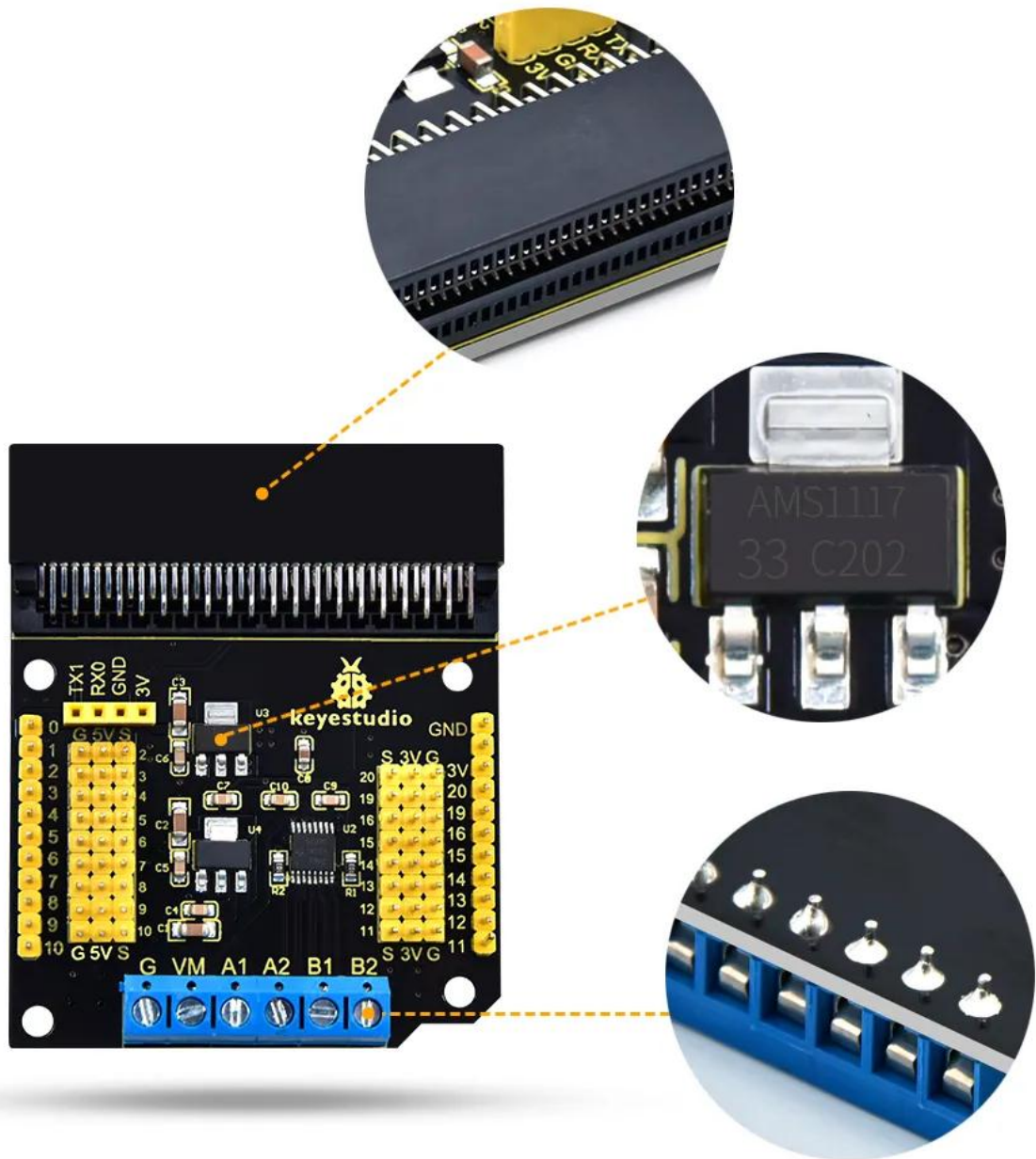
- [Description](#)

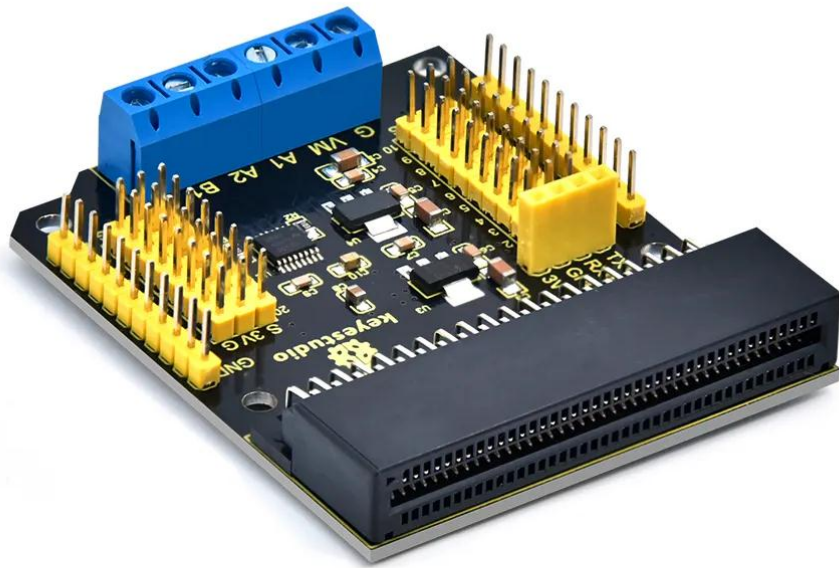
Micro:bit, a microcontroller of ARM structure designed by BBC, is designed for those who love to learn programming. It supports the PXT graphical programming interface developed by Microsoft. You don't need to download additional compilers. It can be used under Windows, macOS, IOS, Android and other systems. To take advantage of the driver DC motor, we designed this expansion board. The board integrates 3.3V and 5V voltage regulator chips, serial communication interface for connecting BT modules and a DRV8833CPWP chip which outputs the maximum 700mA current. It also has four motor control modes: clockwise rotation/anticlockwise rotation/boot/stop. PWM supports frequencies up to 100 kHz. This board also has 3-pin interfaces which can be connected to other sensors.

The motor pin A1, A2, B2 and B1 of the expansion board are controlled by P13, P12, P15 and P16 of the micro:bit board.

- **Specification**

- VM input voltage: DC 5-10.8V
- Operating current of driving part: $\leq 700\text{mA}$
- Motor output configuration: double H-bridge
- Working temperature: 0~50
- Size: 70mm*58mm

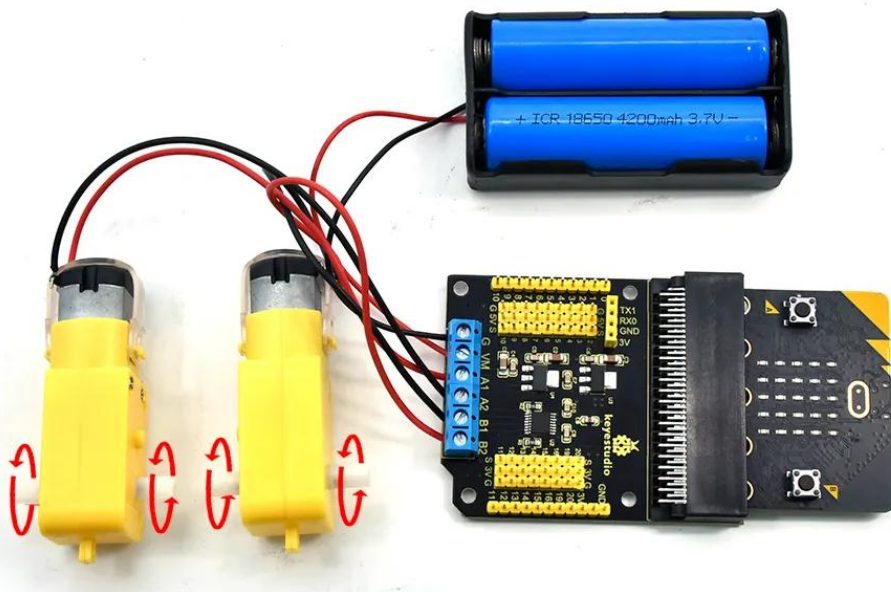


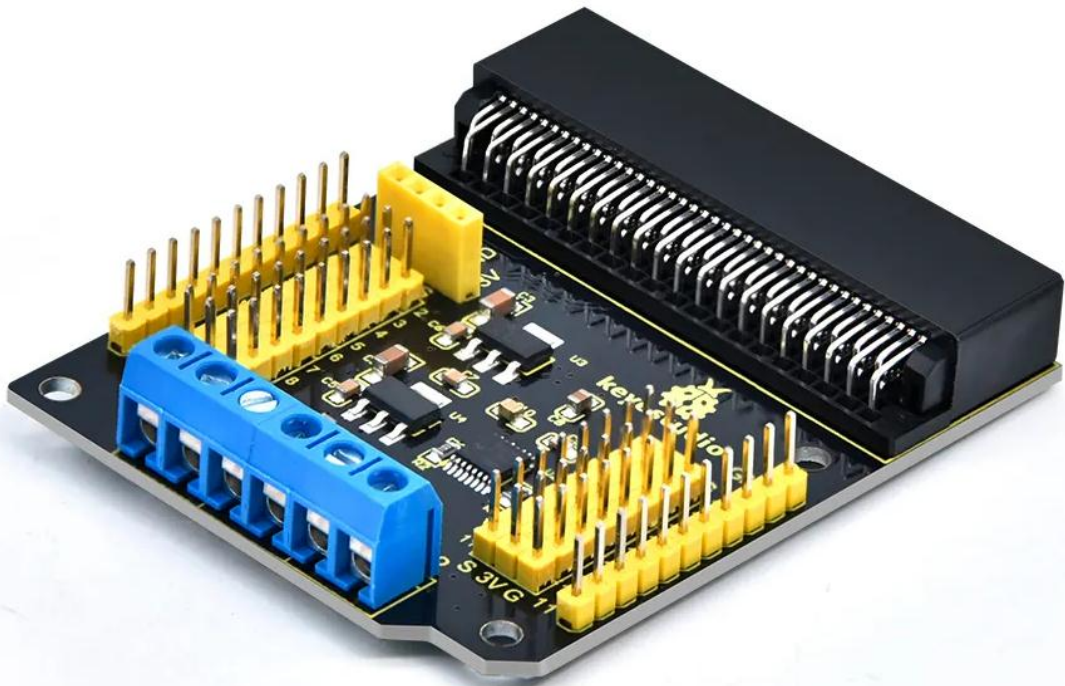
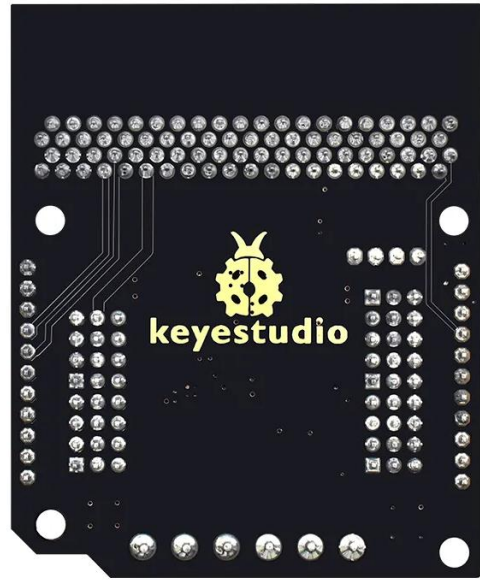
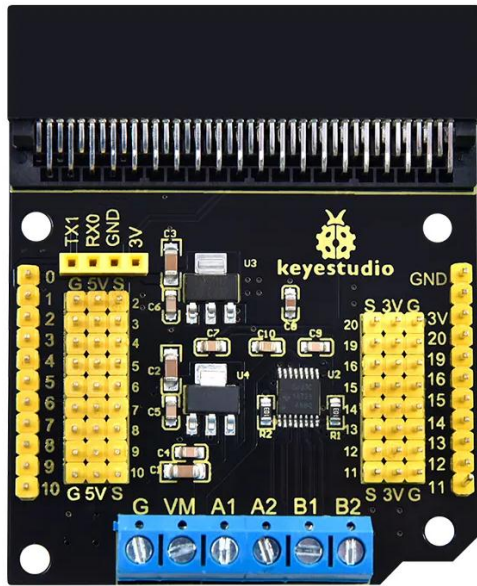


Advantages

- High quality, reasonable price
- Safe and reliable, easy to expand
- Pin headers on two sides can make for operation

Drive two DC motors via a motor driver expansion board







WH-B04

1kg×0.1g

UNIT

39.9

⏻/T

Size: 92*58*13mm
Weight: 39.9g