

1. Introduction to the expansion board

This expansion board is suitable for Micro:bit V1.5/Micro:bit V2. It has a horizontal design and can be easily plugged into the Micro:bit. The expansion board leads out all the pins on the Micro:bit board, and every two pins expands a set of power ports, no separate power supply is required. With PH2.0 anti-reverse connection socket, plug and play, effectively reduce the chance of reverse connection, and protect the Micro:bit board and sensor module.

The board has a total power indicator D1, 5V power indicator D2, and 3.3V power indicator D3. The 5V and 3.3V power supplies have 1A over-current protection respectively, and a number of commonly interfaces are specially designed, such as: IIC interface, Serial interface, steering gear interface, etc.

2. On-board resource description

- On-board anti-reverse I/O

This expansion board leads out all the IO ports of the Micro:bit. Each two pins are matched with a set of VCC and GND, designed as a set of 4PIN PH2.0 anti-reverse connection interface (except for some pins), which greatly simplifies the circuit and reduces the possibility of reverse connection.

- On-board LED

Total power indicator D1, 5V power indicator D2, and 3.3V power indicator D3.

- Two anti-reverse I2C interfaces *1
- Anti-reverse connection RGB module interface *1
- Serial port interface *1
- Servo interface *4

3. Details



