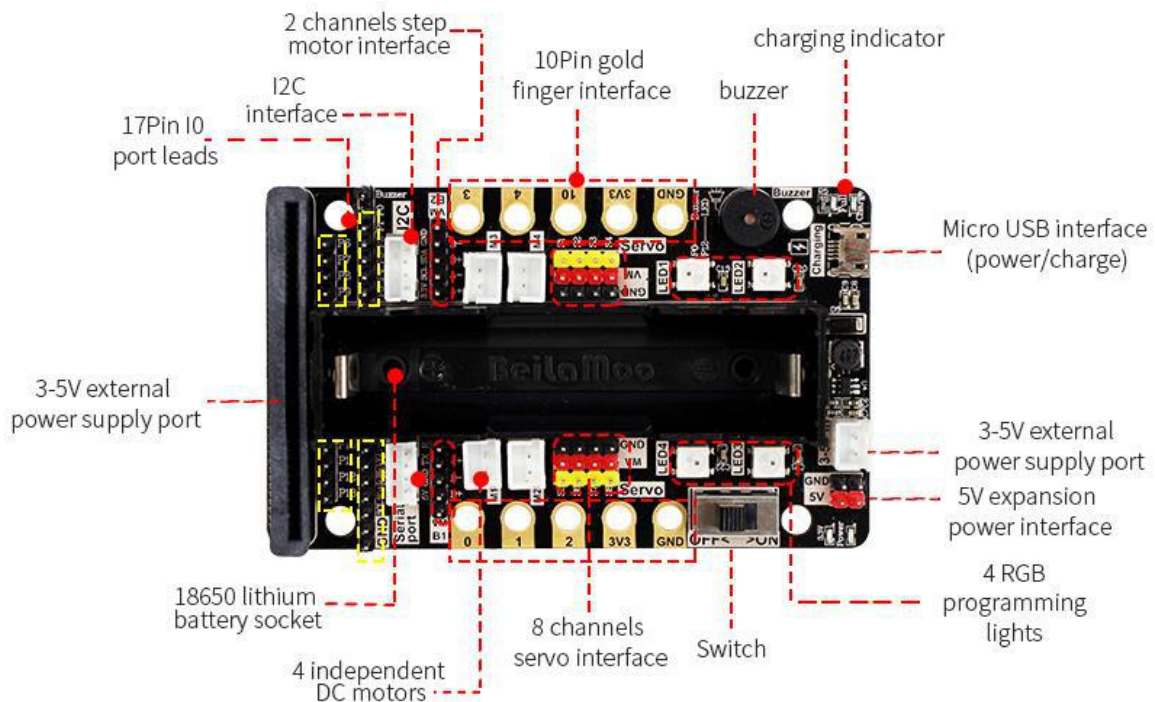


Super:bit expansion board

Description

It be designed with bilateral symmetry, onboard micro:bit board socket, 18650 battery socket, USB power supply interface, 3-5v external power interface, 4 programmable RGB lights, buzzer, I2C interface , WIFI camera serial port, all kinds of motor interfaces and so on, which is an expansion board designed for micro:bit. It also can be connected with 2 channel stepper motors, 4 channel DC motors, 8 channel servos, coupled with stable power supply scheme and various protection circuits, this expansion board has a powerful ability to drive motor. We expand 17 pin header IO ports and 10 alligator clip interfaces to support our sensor modules. The WIFI camera serial interface, IIC interface and LEGO holes make it possible for users to expand into more interesting projects. You can build your own shape with the LEGO bricks, connect some electronic devices, and control it by micro:bit programming. It is an excellent choice for your robotic projects based on Micro:bit!

Hardware distribution diagram



Detail

On board I/O device	Passive buzzer,4 programmable RGB lights	Motor interface	4 channel DC motor (voltage is come from battery, current 1--3A), 2 channel stepper motor
Servo interface	8 channel servo	Expansion interface	17 Pin expansion I0 port, serial port , IIC interface , 10 alligator clip interface
Protection circuit	reverse protection, low voltage protection, over current protection	Special socket	micro:bit gold finger socket
Power supply interface	18650 lithium battery socket, external 3- 5V power supply socket, Micro USB power supply, 5V (MAX: 1A), 3.3V (MAX: 0.5A)		