

SKU:KS0426

Micro:bit Mini Smart Robot Car V2

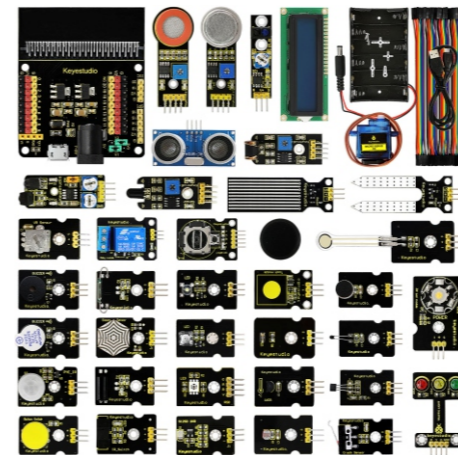


Description

The Micro:bit Mini Smart Robot Car V2 integrates ultrasonic obstacle avoidance, line following as well as infrared and Bluetooth control. It comes with a passive buzzer for playing music; a KEYES-2812-18R module for controlling 18 RGB LED colors; a photocell for detecting the light intensity; two GRB lights used as direction light. This micro:bit robot is a perfect toy for kids to start learning robotics. The plug-and-play allow children to quickly learn graphic programming in entertaining, nurturing children's interest in science and logical thinking.



keyestudio 37 in 1 Starter Kit for BBC micro:bit



KS0361(No Main Board)
KS0365(With Main Board)



Introduction

In order to learn micro bit more easier, we particularly make this kit, in which includes a keyestudio sensor shield fully compatible with micro bit and other commonly used sensor modules. In addition, this sensor kit also provides various learning projects for you, including wiring diagram, source code and more. It can help you make learning easy and fun to enjoy the programming.

keyestudio Beginner Starter Kit for micro bit (STEM Education Programming Kit for Children)



KS0306



Introduction

We specially make this starter kit for you to conveniently learn micro:bit, where includes common used resistors, LEDs, sensors, LED segment display and more, so you can directly start doing the experiments without purchasing other components. The kit also provides you with micro:bit study courses, wiring method and testing code, helping you quickly grasp the programming knowledge.

keyestudio Basic Starter Kit for micro bit (with battery holder and USB cable)



KS0305



Introduction

We specially make this basic starter kit for you to conveniently learn micro:bit, in which includes a micro:bit control board, 1m USB cable and a battery holder with lead (battery not included, wire length 160mm). Note that USB cable is for programming the micro:bit. Battery holder is for power supply, and it comes with a switch button, very convenient for controlling.

keyestudio Sensor Shield V2 for BBC micro:bit

KS0360



Introduction

The sensor shield V2 breaks out all the PIO ports on the micro:bit control board into 3PIN interface (GND, VCC, Signal), very easy to connect the micro:bit control board and other sensor modules.

keyestudio SK6812 4x8 LED Matrix Shield for BBC micro bit

KS0315

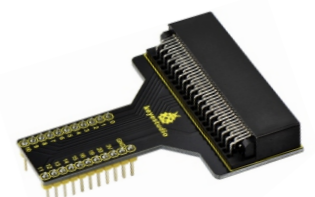


Introduction

Keyestudio SK6812 4x8 LED matrix shield comes with 32 SK6812 LED lights, fully compatible with micro:bit control board. Onboard comes with two 3.3V regulator chips, one powers for the micro bit control board, the other powers for 32 SK6812 LED lights. When using it, just input DC 5-9V to the shield.

keyestudio T-type Shield Adapter for micro bit

KS0291

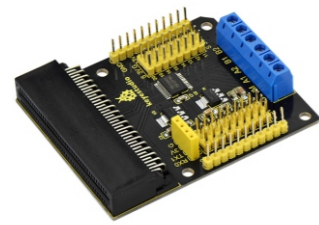


Introduction

In order to facilitate the wiring of micro bit development board, we specifically design this keyestudio T-type adapter. It can be connected to the micro bit development board, then can be directly plugged onto the breadboard.

keyestudio Motor Drive Breakout Board for micro bit

KS0308

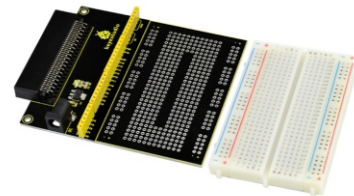


Introduction

The TB6612FNG chip is integrated on the board. Its per channel can output up to 1.2 A continuous drive current, with peak current up to 2A/3.2A. There are 4 motor control modes: Forward/Reverse/Brake/Stop. And PWM supporting frequency is up to 100 kHz.

keyestudio Prototype Breakout Board V2 With 400-point Breadboard for micro bit

KS0307

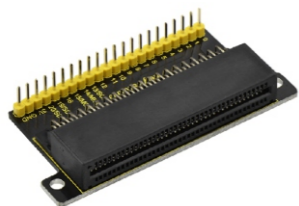


Introduction

Keyestudio prototype breakout board V2 is specially designed for Micro bit motherboard. It breaks out all the pins of micro bit in the form of female headers, very convenient for the circuit building. The breakout board has a number of circular weld holes and contains a 400-point breadboard.

keyestudio Breakout Board Adapter for micro bit

KS0297



Introduction

In order to facilitate the wiring of micro bit development board, we specifically design this breakout board adapter. This board breaks out all the pins and power of micro bit development board to both side female header, so you can connect it to other components using jumper wire.

keyestudio Joystick Breakout Board for micro bit

KS0296

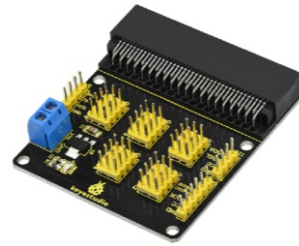


Introduction

Keyestudio joystick breakout board for micro bit comes with AMS1117 chip. You can also connect external DC 4.75-12V to power for micro bit development board. It can be used to simulate the mouse keyboard. On-board 3V, G, P0, P1 are connected to microbit board to imitate the serial port, thus connect the Bluetooth devices.

keyestudio Sensor Breakout Board for micro bit

KS0295

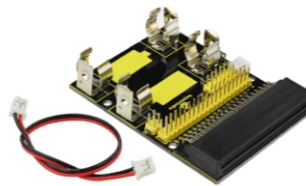


Introduction

This is an EASY plug IIC interface conversion shield, compatible with both EASY plug interface and 2.54mm pitch header interface. The I2C shield breaks out the I2C communication port with both 4pin header of 2.54mm pitch and the EASY plug interface.

keyestudio Power Supply Shield for micro bit

KS0294

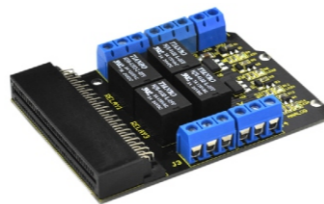


Introduction

In order to facilitate the wiring of micro bit development board, we specifically design this power expansion board. On-board comes with two interfaces, which can access to two-cell batteries, each supply 1.5V. It also comes with a DIP switch for controlling the power input.

keyestudio Relay Breakout Board for micro bit

KS0293

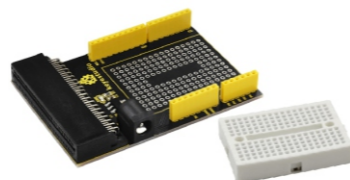


Introduction

Keyestudio relay breakout board for micro:bit has integrated a 4-way 5V relay module, fully compatible with micro bit development board. It can work only need to insert micro bit into keyestudio relay shield, then input DC 5V voltage on the relay VIN GND port, pretty simple and convenient.

keyestudio Prototyping Breakout Board V1 with Small Breadboard for micro bit

KS0292

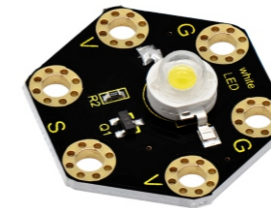


Introduction

On-board comes with AMS1117 chip, and you can power micro bit via connecting external DC 4.75-12V. This breakout board breaks out all the pins and power of micro bit development board to both side female header, to allow easy component soldering on the board, and you can also connect the circuit using small breadboard.

keyestudio micro:bit 1W LED Module

KS0417

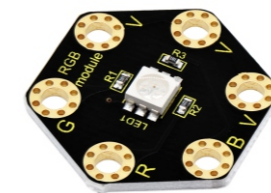


Introduction

This LED module is fully compatible with micro:bit control board. The max operating current is 400mA; the maximum power is 1W. When using, connect the LED module to micro:bit control board using Crocodile clip line.

keyestudio micro:bit 5050 RGB Module

KS0418

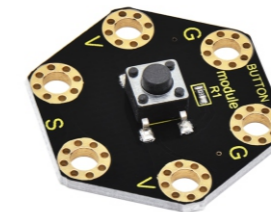


Introduction

This module mainly contains a 5050 RGB LED, fully compatible with micro:bit control board. When using, connect the RGB module to micro:bit control board using Crocodile clip line.

keyestudio micro:bit Tactile Button Module

KS0419



Introduction

This keyestudio tactile button module is fully compatible with micro:bit control board. When using, connect the module to micro:bit control board using Crocodile clip line. It mainly uses a button element, which is a digital signal output device.

keyestudio micro:bit Capacitive Touch Module

KS0420

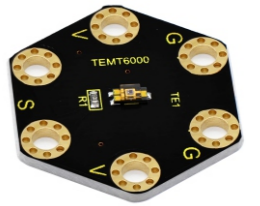


Introduction

This keyestudio capacitive touch module is fully compatible with micro:bit control board. When using, connect the module to micro:bit control board using Crocodile clip line. It mainly uses touch detection IC, which is a digital signal output device. It can be used for waterproof appliances, key replacements, etc.

keyestudio micro:bit TMT6000 Light Module

KS0421

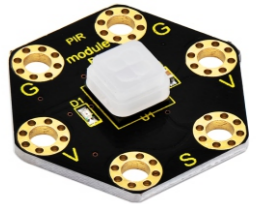


Introduction

This keyestudio TMT6000 light module is fully compatible with micro:bit control board. It is mainly composed of a highly sensitive visible light sensitive (NPN type) triode. When using, connect the module to micro:bit control board using Crocodile clip line.

keyestudio micro:bit PIR Motion Module

KS0422

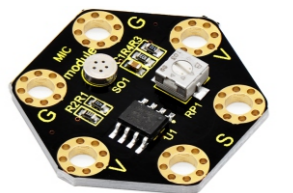


Introduction

In order to facilitate the wiring of micro bit development board, we specifically design this power expansion board. On-board comes with two interfaces, which can access to two-cell batteries, each supply 1.5V. It also comes with a DIP switch for controlling the power input.

keyestudio micro:bit Microphone Module

KS0423

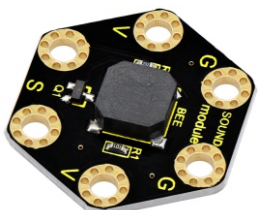


Introduction

Keyestudio relay breakout board for micro:bit has integrated a 4-way 5V relay module, fully compatible with micro bit development board. It can work only need to insert micro bit into keyestudio relay shield, then input DC 5V voltage on the relay VIN GND port, pretty simple and convenient.

keyestudio micro:bit Passive Buzzer Module

KS0424

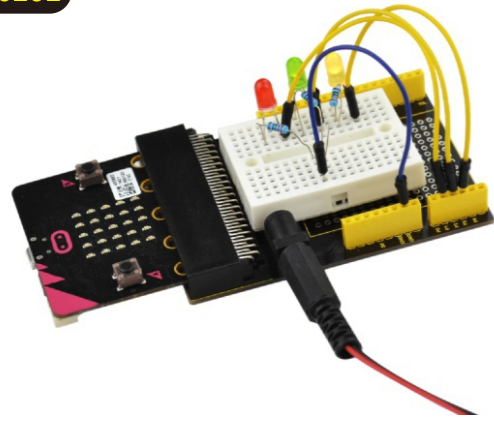


Introduction

On-board comes with AMS1117 chip, and you can power micro bit via connecting external DC 4.75-12V. This breakout board breaks out all the pins and power of micro bit development board to both side female header, to allow easy component soldering on the board, and you can also connect the circuit using small breadboard.

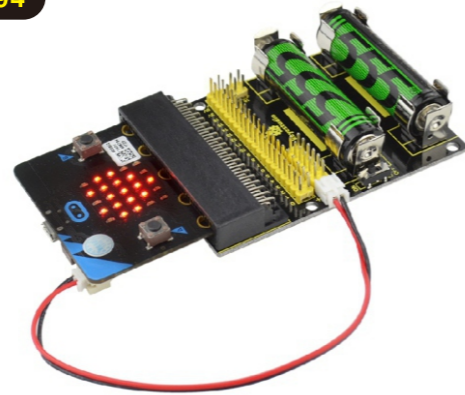
Micro:bit Products Connection Diagram

KS0292



Connecting External LEDs By Prototype Breakout Board V1

KS0294



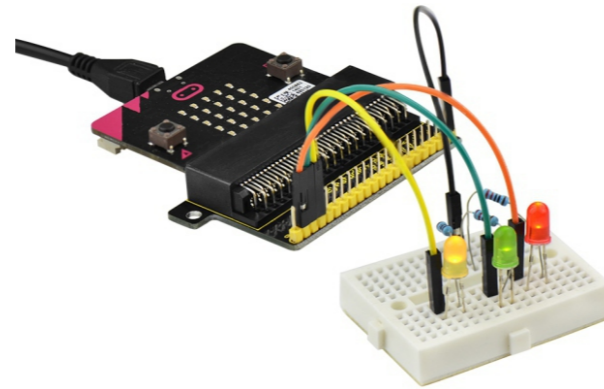
Powering For Micro:bit By Power Supply Shield

KS0296



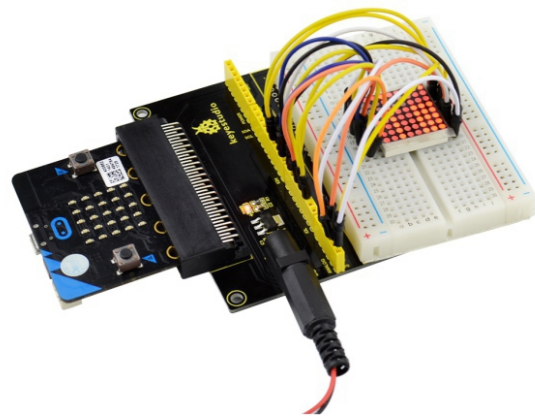
Controlling External LEDs By Joystick Breakout Board

KS0297



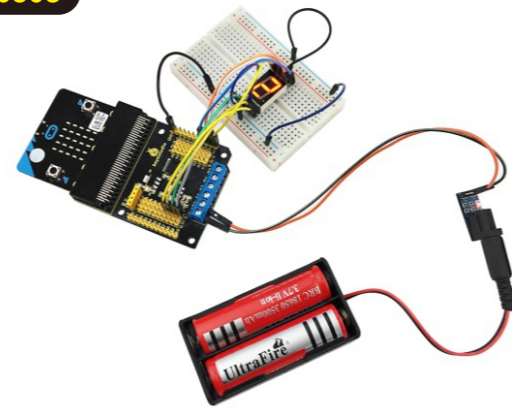
Connecting External LEDs By Breakout Board Adapter

KS0307



Connecting 8*8 Dot Matrix By Prototype Breakout Board V2

KS0308



Connecting a 1-digit LED Display By Motor Drive Breakout Board