

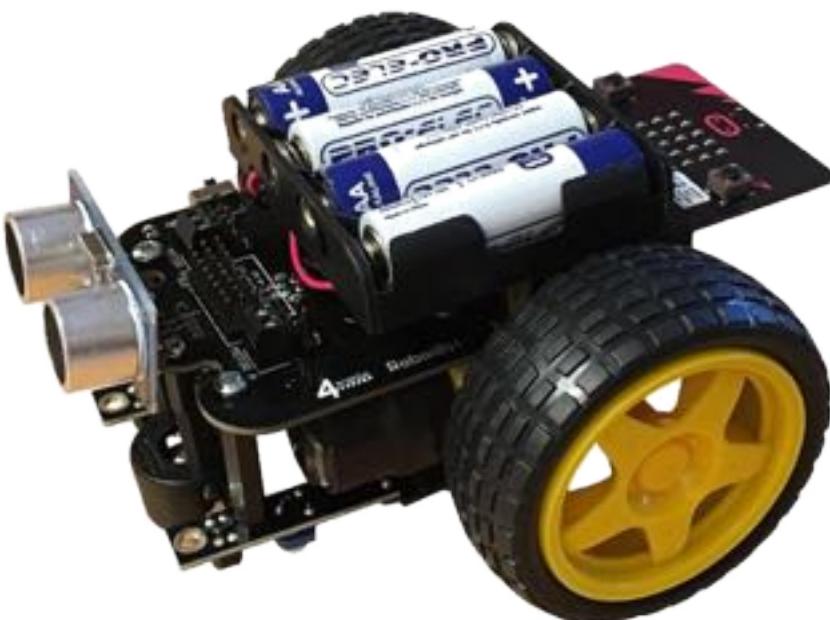


micro:bit

Accessory Guide

January 2020

Robo:Bit Buggy



Robo:Bit Buggy for the micro:bit

This little buggy can be assembled very quickly using only a screwdriver. No soldering is required.

It comprises several packs that are also available separately:
Robo:Bit robotics controller PCB
Fixings pack (battery holder, screws, mounting pillars, caster, etc.)
Wheels Motors and wheels
Optional extra: Line sensor pack
Optional extra: Ultrasonic distance sensor module
Optional extra: McRoboFace - simply push the 4-pin connector of the McRoboFace into the 4 holes at the front of the Robo:Bit

Company: 4tronix



URL: www.4tronix.co.uk

Connection Type: Uses whole Edge Connector

MiniBit



MiniBit Entry-level Robot for micro:bit

MiniBit is a ready-assembled simple and inexpensive robot for the BBC micro:bit.

It has the following features:

- Ready assembled. Just push on the wheels
- Edge connector to easily insert the micro:bit
- Micro metal gears motors with fully-enclosed gearbox
- 4x smart RGB LEDs
- Integrated pen holder for 10mm diameter pens
- MakeCode extension and MicroPython examples available

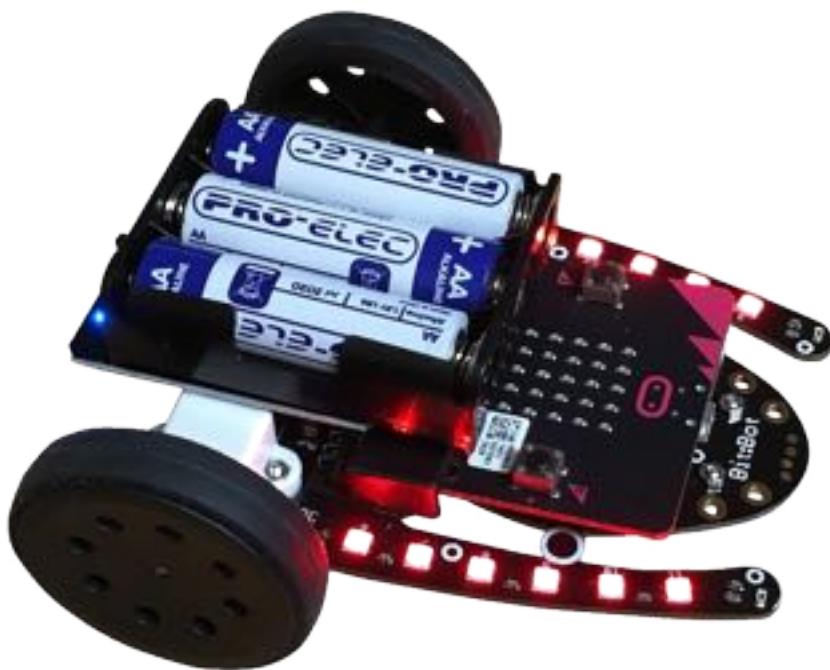
Company: 4tronix



URL: www.4tronix.co.uk

Connection Type: Uses whole Edge Connector

Bit:Bot



Bit:Bot for the BBC micro:bit

The (almost) ready-assembled Bit:Bot fully engages children and adults alike, allowing you to explore and code the BBC micro:bit using any of the languages available (not all features are supported in all languages).

Check out these features:

- 2 micro-metal gear motors. Both fully controllable in software
- Wheels with rubber tyres for maximum grip
- Really smooth metal ball front caster
- 12 mini neopixels in 2 sets of 6 along the arms either side, each individually controllable

And so much more, including 2 digital line following sensors, 2 analog light sensors (front left and front right) and a Buzzer.

Company: 4tronix



URL: www.4tronix.co.uk

Connection Type: Uses whole Edge Connector

Bit:Bot XL



Bit:Bot XL Robot

Introducing BitBot XL, taking the much-loved BitBot to the next level. We have made several changes, some subtle, some not so subtle, to give a much-improved experience of using and working with the BitBot.

- Product Dimensions approx 10% larger in length and width
- Chunky wheels
- Ready - assembled. Battery pack permanently attached
- Motor gearboxes fully covered - minimises fluff in the gears
- micro:bit mounted vertically

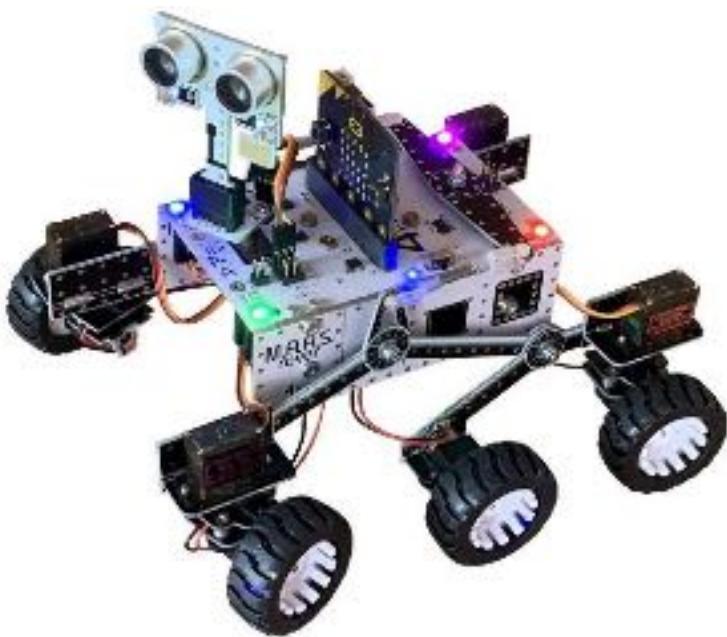
Company: 4tronix



URL: www.4tronix.co.uk

Connection Type: Uses whole Edge Connector

M.A.R.S. Rover



M.A.R.S. Rover Robot

The 4tronix M.A.R.S. Rover is loosely based on the Curiosity and Mars 2020 rovers from NASA/JPL. It uses the same rocker arm, bogey and differential arm mechanism.

**Mobile
Autonomous
Robotic
System**

6 Motors. 80 rpm 6V, N20 micro gear motors

4 Servos. MG90S metal gear analog micro servos

Company: 4tronix



URL: www.4tronix.co.uk

Connection Type: Uses whole Edge Connector

Drive:Bit



Drive:Bit Motor Controller

Drive:Bit uses the ever popular DRV8833 motor driver which allows you to use most small motors that operate in the 6V - 9V range.

The Drive:Bit includes a power switch, indicator LED and features a Smart RGB LED for status indication. All the useful micro:bit pins are brought out to pads along the top of the board, with P0, P1, P2 and P8 being made available with 3-pin GVS (Ground, Voltage, Signal) headers, making it easy to connect to 3V sensors and even small micro servos.

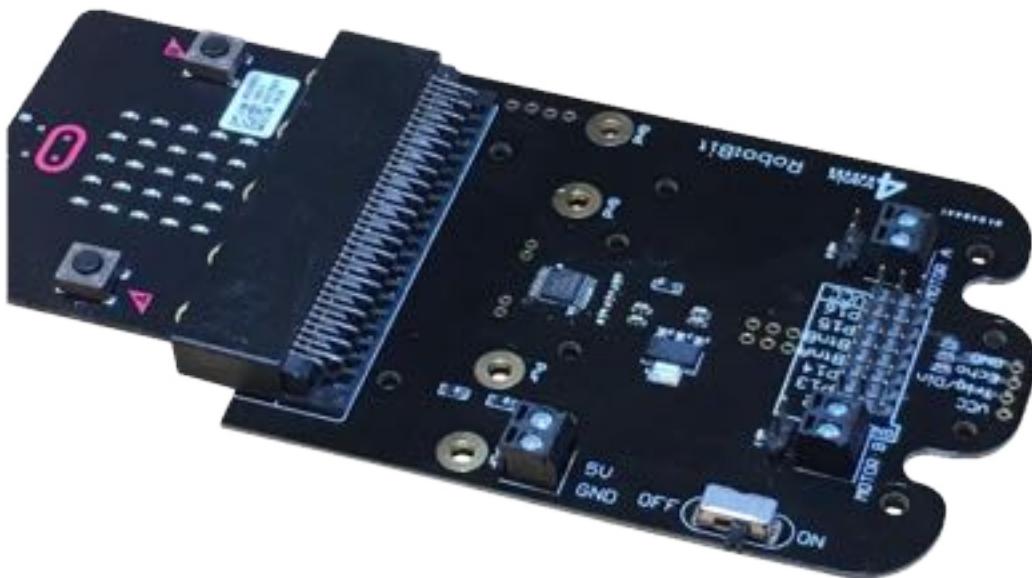
Company: 4tronix



URL: www.4tronix.co.uk

Connection Type: Uses whole Edge Connector

Robo:Bit



Robo:Bit for the BBC micro:bit

This robotics controller enables you to quickly and safely build your own small robot with it's built in voltage regulator, motor driver, ultrasonic sensor interface and general purpose connections using GVS (Ground Volts, Signal) connectors.

The Robo:Bit is ready assembled and no soldering is required. It is ideal to use with your own small motors and wheels, but we also provide fittings kits, motors and wheels to make a complete robot.

A complete Robo:Bit buggy kit is also available.

Company: 4tronix



URL: www.4tronix.co.uk

Connection Type: Uses whole Edge Connector

Playground



Playground for the BBC micro:bit

This is an exciting new way to use your BBC micro:bit, without requiring crocodile clips which can be difficult for small (and large) people to use.

This new approach allows the use of a single cable for most addons (Gizmos), instead of 3 crocodile clips. It also includes a built-in battery holder so you can use your micro:bit on the go.

There is a large and growing range of Gizmos including buttons, sensors, LEDs, servos and more. All can be connected via a single cable. Simple, tidy, educational.

Company: 4tronix



URL: www.4tronix.co.uk

Connection Type: Uses whole Edge connector

Bit:2:Pi



Bit:2:Pi for the BBC micro:bit

The Bit:2:Pi enables you to re-use all those hundreds of Raspberry Pi add-on boards and HATs.

Available as a kit or fully assembled. Simply plug your micro:bit into the edge connector and the required Raspberry Pi Hat onto the GPIO connector, then program your micro:bit to control the new board. Most Raspberry Pi boards are very simple to program as they are controlled by simple on/off signals on the GPIO connector which are easily copied in the micro:bit. We have also used Neopixel hats (eg. Unicorn from Pimoroni) with great success and are happily communicating via I2C as well.

Optionally you can add a battery connector with 3.3V regulator so the micro:bit and Hat can be used without wires.

Company: 4tronix



URL: www.4tronix.co.uk

Connection Type: Uses whole Edge Connector

Bit:Commander



Bit:Commander for BBC micro:bit

The Bit:Commander is a great device for powering and experimenting with the BBC micro:bit.

As well as a battery pack (3 x AA batteries required), the Bit:Commander includes; Edge Connector for easy connection of the BBC micro:bit, Robust on/off switch, Blue power indicator, 6 multi-colour RGB LEDs (aka neopixels), 4 square 12mm push buttons with coloured caps (Red, Yellow, Green, Blue), Analog dial input with centre click detent for easy centering, Analog Joystick with X and Y movement and a push switch, Powered miniature speaker.

Suggested uses; Acting as a remote control for another micro:bit device, such as a Bit:Bot, Acting as a self-contained portable (no wires) games console, Experimenting with various Digital and Analog inputs available as well as the speaker and neopixel outputs

Everything is pre-fitted. No wires, soldering or jumpers to fiddle with.

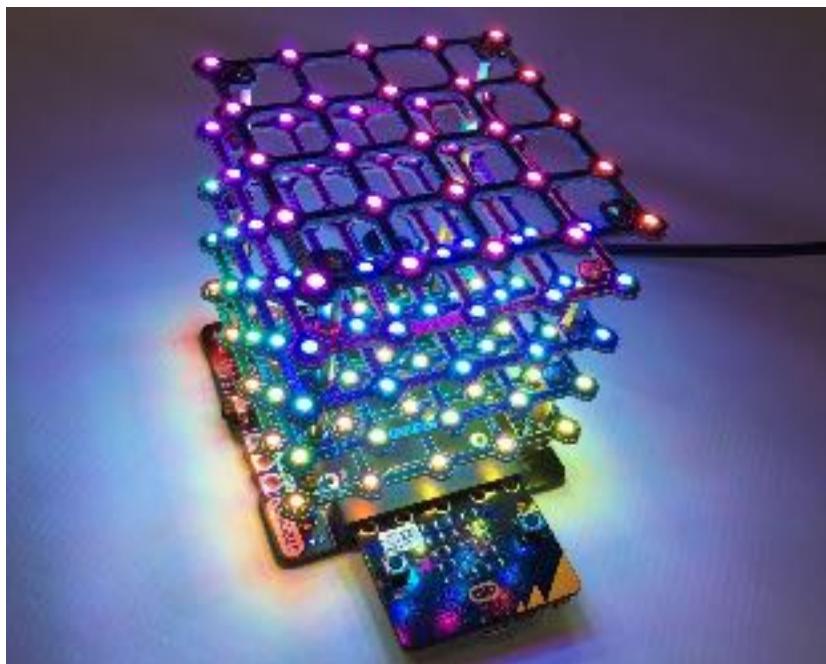
Company: 4tronix



URL: www.4tronix.co.uk

Connection Type: Uses whole Edge Connector

Cube:bit



Cube:bit for BBC micro:bit

These wonderful cube kits can be assembled in only a few minutes with only a small screwdriver. No soldering is involved. Every cube is made out of pre-assembled slices that have neopixel LEDs on both sides to give an all-round effect to the lighting. Learn about co-ordinates in 2D and 3D. Create wonderful visual effects and stunning indicators to sensory events on your micro:bit.

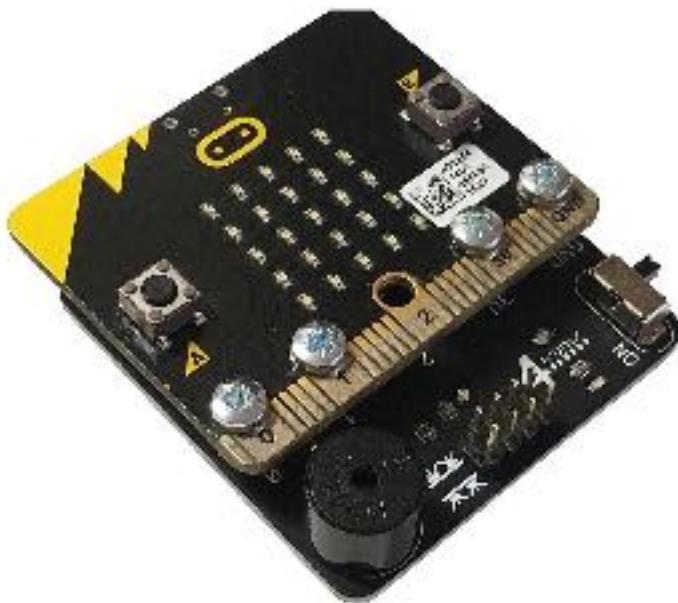
Company: 4tronix



URL: www.4tronix.co.uk

Connection Type: Uses whole Edge Connector

Music Box Base:Bit



Music Box Base:Bit for BBC micro:bit

This neat little unit is a standalone music box for your micro:bit (not included). Provides battery power, voltage regulator, mini speaker with powered driver, on/off switch with indicator LED and mountings for the micro:bit and up to 2 blinky plugins (not included).

Can be used as a standalone micro:bit music box or use to drive your own "Smart RGB" LED shapes

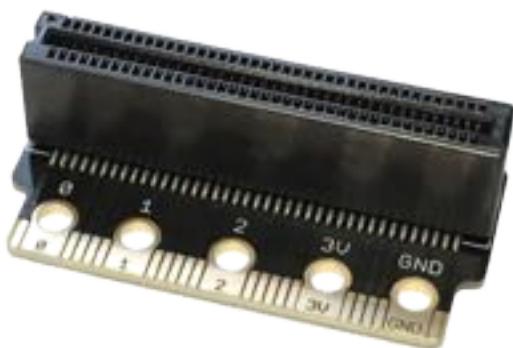
Company: 4tronix



URL: www.4tronix.co.uk

Connection Type: Screws/Bolts

Angle:Bit



Angle:Bit for the BBC micro:bit

This great little adaptor lets you change the orientation of your BBC micro:bit from horizontal to vertical, or vice versa.

As an added bonus, the edge connector is wired so that you can insert the micro:bit either way round so you can decide whether you want the LEDs facing forwards or backwards (or up or down).

The design is very compact so it can fit in most accessories. It is particularly useful for Bit:Bot as it allows the micro:bit to be accessed easily even when the ultrasonic sensor is fitted.

Company: 4tronix



URL: www.4tronix.co.uk

Connection Type: Uses whole Edge Connector

Adafruit CRICKIT



Adafruit CRICKIT for micro:bit

Sometimes we wonder if robotics engineers ever watch movies. If they did, they'd know that making robots into slaves always ends up in a robot rebellion. Why even go down that path? Here at Adafruit, we believe in making robots our friends!

So if you find yourself wanting a companion, consider the robot. They're fun to program, and you can get creative with decorations.

With that in mind, we designed Crickit - That's our Creative Robotics & Interactive Construction Kit. It's an add-on to the BBC's micro:bit that lets you #MakeRobotFriend using MakeCode or Arduino.

Plug your :bit into the 40 pin edge connector and start controlling motors, servos, solenoids. You also get signal pins, capacitive touch sensors, a NeoPixel driver and amplified speaker output. It complements & extends micro:bit so you can still use all the goodies on the :bit, but now you have a robotics playground as well.

Please note at this time that MicroPython is not supported yet, just MakeCode & Arduino!

The Crickit is powered by seesaw, our I2C-to-whatever bridge firmware. So you only need to use two data pins to control the huge number of inputs and outputs on the Crickit. All those timers, PWMs, sensors are offloaded to the co-processor.

Company: Adafruit



URL: <https://www.adafruit.com>

Connection Type: Edge connector

2x40 Right Angle Edge Connector



2x40 Right Angle Edge Connector for the BBC micro:bit

This helpful connector fits right on the edge of your micro:bit to help open up a world of possibilities.

We promise there's much, much more on the way from Adafruit so keep checking back to see what exciting accessories we have in store.

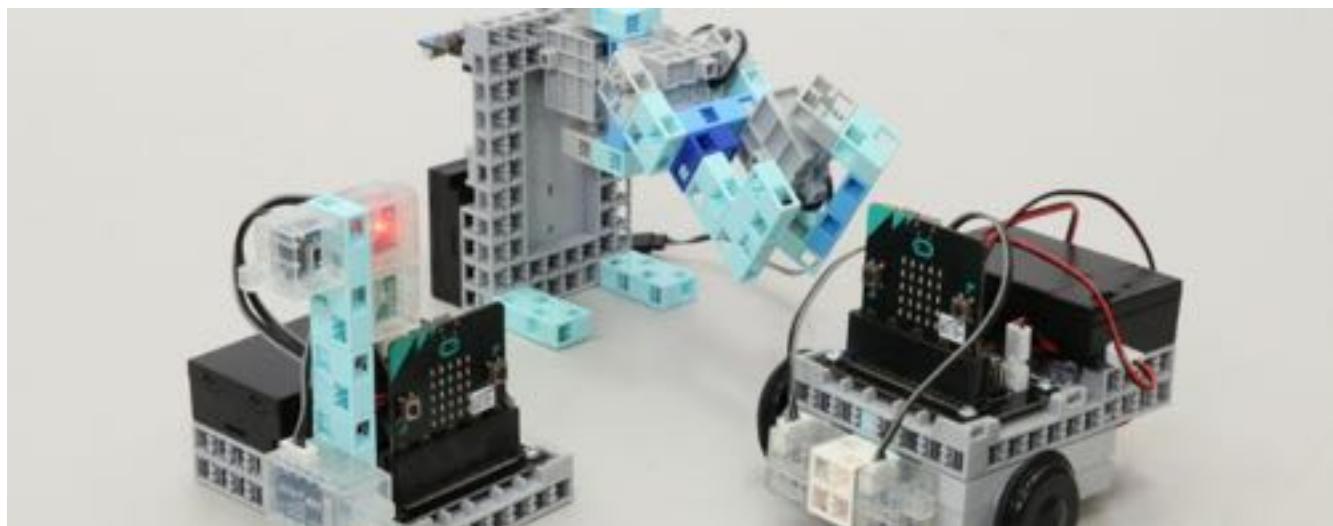
Company: Adafruit Industries



URL: <https://www.adafruit.com/products/3342>

Connection Type: 2x40 Edge Connector

ArtecRobo



Educational Robot by Artec for BBC micro:bit

A perfect programmable robot for both kids who are new to programming and advanced coders who want to boost their creativity! With no soldering required and being made up of 2cm cubes and triangles, ArtecRobo has been the go-to-solution for kids and teachers who like to build robots in stress free manner and dislike small (yet vital!) components going missing in the process. Program variety of actuators and sensors including LED, buzzer, servomotor, DC motor, IR photoreflector, sound sensor, light sensor and touch sensor to make any robot you like, from accurate replica of traffic light to cute doggy robot. Not only they are fun to build and program, three year worth of programming curriculum is also available for teachers looking into integrating robotics/programming or STEM into their lessons. Textbooks are carefully designed for teachers and students who do not necessarily have experience of programming, with helpful tips and easy-to-understand instructions. Each curriculum is based on real-life machines such as automatic doors for students to learn the relevance of robotics in our daily lives!

Company: Artec Co., Ltd.



URL: <http://www.artec-kk.co.jp/en/>

Connection Type: 2x40 Edge connector

Dimm



Dimm for micro:bit

DIMM is the incredible new smart robot that is revolutionising the way we learn how to code! From basics through to more advanced levels, use this kit to introduce STEM to build the smart card robot and then, the even more fun bit - learn to code and build your own projects. This kit contains everything you need to easily learn to code in one box. You get free access to online activities and videos to make it really easy to learn to code. It includes your very own BBC micro:bit mini computer which is used in schools. What's included in the box?

- Comprehensive step by step instruction manual
- BBC micro:bit computer
- USB cable to connect to PC or Mac
- Card parts to make your own robot
- Lots of stickers to design your robot
- Wires and sensors to make him do cool things
- Free access to online activities, videos and help

No complicated software needed - just write code using micro:bit Block Editor

Company: BinaryBots



URL: <https://www.binarybots.tech/>

Connection Type: Crocodile clips

Binary's UFO



Binary's UFO for micro:bit

Binary's UFO is a smart and super saucer that uses lights and sounds to teach you how to code. Using S.T.E.M. to build the saucer and assemble the sensors, then create your own designs, learn how to code, and do exciting things! This kit contains everything you need to easily learn to code in one box. You get free access to online activities and videos to make it really easy to learn to code. It includes your very own BBC micro:bit mini computer which is used in schools. What's included in the box?

- Comprehensive step by step instruction manual
- BBC micro:bit computer • USB cable to connect to PC or Mac
- Card parts to make your own robot
- Lots of stickers to design your own UFO
- Wires and sensors to make it flash and do cool things
- Free access to online activities, videos and help No complicated software needed - just write code using micro:bit Block Editor

Company: BinaryBots



URL: <https://www.binarybots.tech/>

Connection Type: Crocodile clips

Totem Crab



Totem Crab for micro:bit

The Totem Crab can normally be found scuttling merrily along the beaches on Planet Totem. This alien robot has a brand new BinaryBots sensor board and an awesome pincer, bring the crab alive with coding! You'll be able to build your very own robot, add the unique crab pincer, hook up the sensor board, and bring it all to life with a BBC micro:bit. You get free access to online activities and videos to make it really easy to learn to code. Simply program the BBC micro:bit and you are away. This kit includes one of the latest innovations from BinaryBots - the BinaryBots Totem Sensor board. Bring your robot to life and code it to respond with real instincts - poke your robot to make it mad and stroke it to calm down. Code responses according to real world actions. Has 2 unique capacitive touch sensor strips for poke and stroke interface 4 addressable multi colour LEDs Light sensor and buzzer Vibramotor for haptic feedback. What's included in the box?

- All the pieces required to construct the Totem Crab™
- Instruction Book
- Unique crab pincer with motor etc.
- BBC micro:bit power & interface board
- Powerful BinaryBots sensor board
- Totem screwdriver Doesn't come with a BBC micro:bit sold separately

Company: BinaryBots



URL: <https://www.binarybots.tech/>

Connection Type: Screws/Bolts & Edge connector

Totem Tortoise



Totem Tortoise for micro:bit

The Totem Tortoise robot has found its way to earth from Planet Totem. This alien robot has a brand new BinaryBots sensor board and an awesome hide in shell ability. Just waiting for you to code to life. You'll be able to build your very own robot, hook up the sensor board, and bring it all to life with a BBC micro:bit. You get free access to online activities and videos to make it really easy to learn to code. Simply program the BBC micro:bit and you are away. This kit includes one of the latest innovations from BinaryBots - the BinaryBots Totem Sensor board. Bring your robot to life and code it to respond with real instincts - poke your robot to make it mad and stroke it to calm down. Code responses according to real world actions: - Has 2 unique capacitive touch sensor strips for poke and stroke interface - 4 addressable multi colour LEDs - Light sensor and buzzer - Vibramotor for haptic feedback What's included in the box?

- All the pieces required to construct the Totem Tortoise™
- Instruction Book
- Unique hide in shell ability with motor etc.
- BBC micro:bit power & interface board
- Powerful BinaryBots sensor board • Totem screwdriver Doesn't come with a BBC micro:bit Sold separately

Company: BinaryBots



URL: <https://www.binarybots.tech/>

Connection Type: Screws/Bolts & Edge connector

Totem Spider



Totem Spider for micro:bit

The Totem Spider is an alien robot from the Planet Totem. The robot comes with a brand new BinaryBots sensor board and an awesome web, allowing you to easily bring the spider alive with code. You'll be able to build your very own robot, setup the powerful motorised web, hook up the sensor board, and bring it all to life with a BBC micro:bit. You get free access to online activities and videos to make it really easy to learn to code. Simply program the BBC micro:bit and you are away. This kit includes one of the latest innovations from BinaryBots - the BinaryBots Totem Sensor board. Bring your robot to life and code it to respond with real instincts - poke your robot to make it mad and stroke it to calm down. Code responses according to real world actions - Has 2 unique capacitive touch sensor strips for poke and stroke interface - 4 addressable multi colour LEDs - Light sensor and buzzer - Vibramotor for haptic feedback. What's included in the box?

- All the pieces required to construct the Totem Spider™
- Instruction Book • Unique spider web with motor etc.
- BBC micro:bit power & interface board
- Powerful BinaryBots sensor board
- Totem screwdriver Doesn't come with a BBC micro:bit Sold separately

Company: BinaryBots



URL: <https://www.binarybots.tech/>

Connection Type: Screws/Bolts & Edge connector

Binary's JetCar



Binary's JetCar for micro:bit

Binary has joined forces with the team at Bloodhound SSC to bring you the JetCar™ Bloodhound SSC Limited Edition. The Bloodhound JetCar allows you to feel a part of the iconic World Record attempt by having your own functional car at home that you learn to move using code. Using the BBC micro:bit and navigating the activity map, help Binary to get to the finish via whichever route you choose. You get free access to online activities and videos to make it really easy to learn to code. Simply program the BBC micro:bit and you are away. What's included in the box?

- Flat pack Cardboard Jet Car™
- Motors, wheels, motor controller board
- BBC micro:bit single board computer
- Sticker Sheets, medal stickers
- Instruction Book
- Cardboard Standup Binary
- Activity Map
- Ping Sonar Sensor • LED Strip • Line Following Sensors

Company: BinaryBots



URL: <https://www.binarybots.tech/>

Connection Type: Crocodile clips

BinaryBots Raspberry Pi to micro:bit Vertical Adaptor



BinaryBots Raspberry Pi to micro:bit Vertical Adaptor for micro:bit

This adaptor allows you to use both a Raspberry Pi and a BBC micro:bit together. Vertical mounting Note: The Raspberry Pi has to be programmed with Python, whereas the BBC micro:bit can be programmed with either Python or MakeCode Editor.

Company: BinaryBots



URL: <https://www.binarybots.tech/>

Connection Type: Edge connector

BinaryBots Raspberry Pi to micro:bit Horizontal Adaptor



BinaryBots Raspberry Pi to micro:bit Horizontal Adaptor for micro:bit

This adaptor allows you to use both a Raspberry Pi and a BBC micro:bit together. **Horizontal mounting Note:** The Raspberry Pi has to be programmed with Python, whereas the BBC micro:bit can be programmed with either Python or MakeCode Editor.

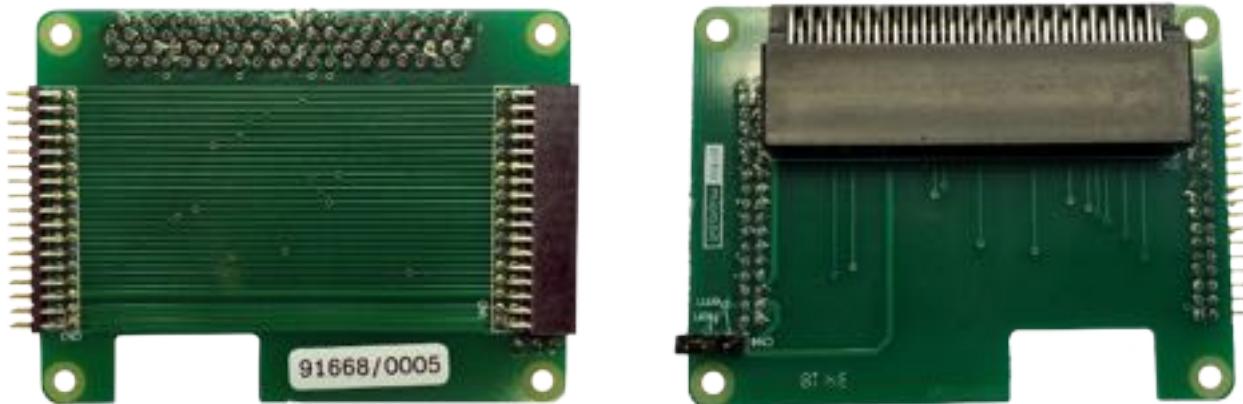
Company: BinaryBots



URL: <https://www.binarybots.tech/>

Connection Type: Edge connector

BinaryBots micro:bit to pi-top Adaptor



BinaryBots micro:bit to pi-top Adaptor for micro:bit

This adaptor allows you to use both a Raspberry Pi and a BBC micro:bit together. Pi-top mounting Note: The Raspberry Pi has to be programmed with Python, whereas the BBC micro:bit can be programmed with either Python or MakeCode Editor.

Company: BinaryBots



URL: <https://www.binarybots.tech/>

Connection Type: Edge connector

Finch 2.0



Finch Robot 2.0

The Finch is a robot designed to inspire and delight students learning computer science from Kindergarten to college.

Finch Robot 2.0 will launch with access to the following programming languages:

- FinchBlox (icon-based for pre-readers - available on iOS, Android)
- BirdBlox (block-based - available on iOS, Android)
- MakeCode (block-based - available on Chrome, Mac, Windows, Linux)
- Snap!, Python and Java (available on Mac, Windows)

Company: BirdBrain Technologies
 The logo for BirdBrain Technologies features the company name in a stylized, blue font with a small bird icon integrated into the letter 'B'. Below the main name is the word 'TECHNOLOGIES' in a smaller, sans-serif font.
URL: birdbraintechnologies.com
Connection Type: Uses whole Edge Connector



Hummingbird Bit Robotics Kit



Hummingbird Bit Robotics Kit for micro:bit

The Hummingbird Bit, powered by micro:bit, is a kit comprised of lights, motors, and sensors which allow students to build a robot out of any materials. Developed at Carnegie Mellon University, the Hummingbird Robotics Kit enables open-ended and creative engineering and design projects.

Company: BirdBrain Technologies



URL: www.birdbraintechnologies.com

Connection Type: Edge connector

Hummingbird micro:bit adaptor



Hummingbird adaptor for BBC micro:bit

This adapter allows your Hummingbird to work with the micro:bit. Simply plug it into the back of the Hummingbird, write programs in the block-based MakeCode environment, and download them onto the micro:bit. Once the code is downloaded, unplug your Hummingbird robot from the computer and your program will still run!

Company: BIRDBRAIN Technologies



URL: <http://store.birdbraintechnologies.com/product-p/mbadapt.htm>

Connection Type: Whole edge connector

Bright Board



Bright Board

The Bright Board is an accessory board to the micro:bit microcontroller (sold separately) that is designed to fit easily and perfectly into any Bright Bag style. It contains 12 RGB LEDs that can each be individually programmed to display millions of different colors.

The Bright Board lets you carry color and sparkle with you wherever you go. Because it is powered by micro:bit, you can code it in many different development environments, including MS MakeCode code blocks (which also works on your smartphone), Python, Arduino and many others. A power pack that holds 3 AA batteries comes with the Bright Board (batteries not included) making it easily portable.

Company: Bright Wearables

BRIGHT
WEARABLES

URL: brightwearables.com

Connection Type: Uses whole Edge Connector

Bright Bags



Bright Bags

Various backpacks and phone bags using the Bright Board

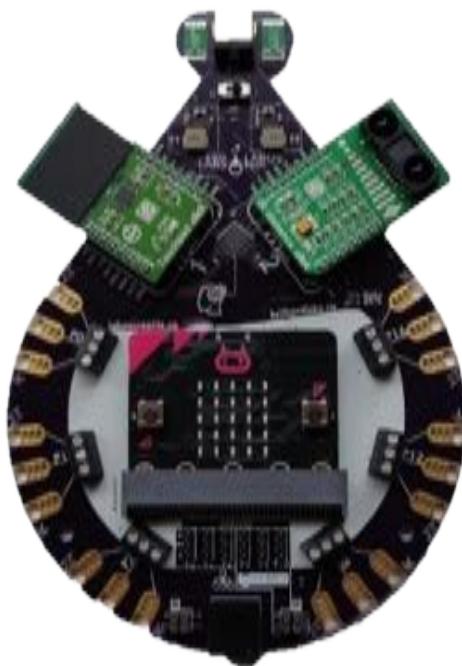
Company: Bright Wearables

BRIGHT
WEARABLES

URL: brightwearables.com

Connection Type: Uses whole Edge Connector

b.Board



b.Board

What is the b.Board?

Please meet the new Brilliant Labs b.Board! An Atlantic Canadian open source electronics hardware prototyping platform. Designed to be accessible to creators, researchers and inventors of all ages. Using this fun interactive device you can bring your IoT, robotics or other hardware project ideas from concept to reality!

How it works

The Brilliant Labs b.Board opens up a world of design possibilities with its integrated breakout pins, high current supply capability, clickboard™ compatibility , expansion port and much more!

Company: Brilliant Labs



URL: brilliantlabs.ca/bboard

Connection Type: Uses whole Edge Connector

Grove Zero Bit Kit micro:Car



Grove Zero Bit Kit micro:Car

On-board rechargeable battery

4 on-board programmable RGB LED

On-board programmable buzzer

LEGO-compatible micro:bit shield

Line following

Color recognition

Support for MakeCode for micro:bit

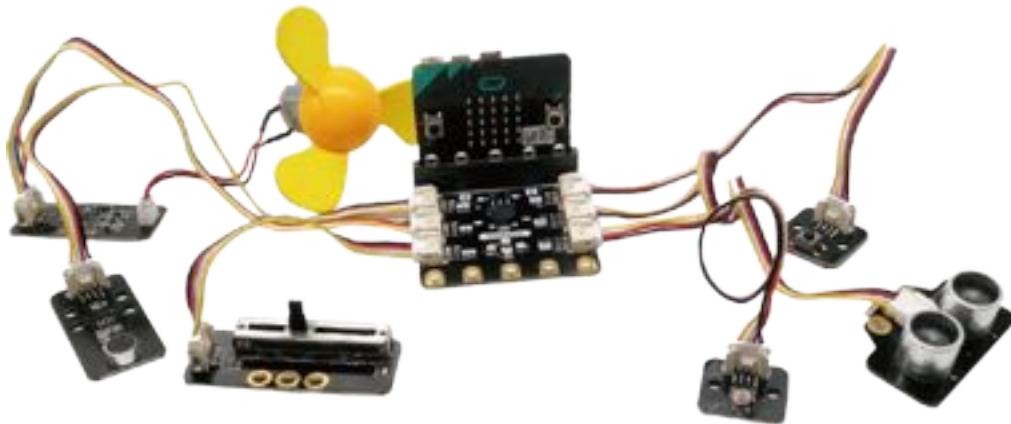
Company: CH Maker



URL: chmakered.com

Connection Type: Uses whole Edge Connector

Grove One



Grove One for micro:bit

Grove One is a programmable electronic module system based on the Seeed star product Grove, Integrated with features specially designed for educational users, Grove One makes it easier to connect, thus simplifies the entire learning process and allows children to focus on creative expression, saving time from using jumpers or soldering in the traditional learning methods.

Company: CH Maker



URL: chmakered.com

Connection Type: Uses whole Edge Connector

BitPlayer



BitPlayer

BitPlayer plus micro:bit, you just made a cool wireless remote controller and a game console for yourself.

To provide a comfortable gaming experience, the product uses a 2-axis joystick that just feel like any joystick on a popular Gameboy or PSP. There are 6 programmable push-buttons, the top left, top right, and button A,B,C,D. With the built-in vibration motor and buzzer, you can get a quite immersive and interactive gaming experience.

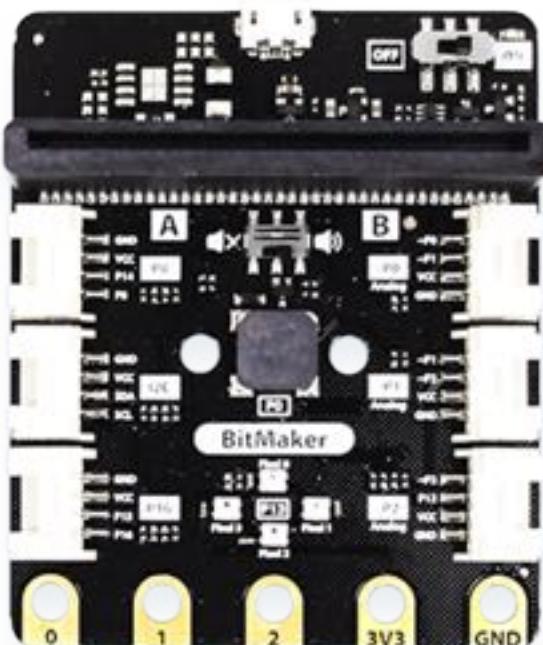
Company: CH Maker



URL: chmaked.com

Connection Type: Uses whole Edge Connector

BitMaker



BitMaker

BitMaker is a credit card sized extension board designed for connecting micro:bit with Grove One modules. It acts as a bridge for micro:bit and our Grove One system, which provides hundreds of different Grove One modules including sensors, actuators, communication modules and displays etc., which will broaden micro:bit's ability in creating more projects easily and quickly.

The BitMaker not only has as many as 6 Grove ports for Grove modules, it also integrates a buzzer and 4 neopixel RGB LEDs. The touchable pins P0, P1 and P2 are also reserved for connecting banana plugs or crocodile clips if you are a fan of making a fruit piano.

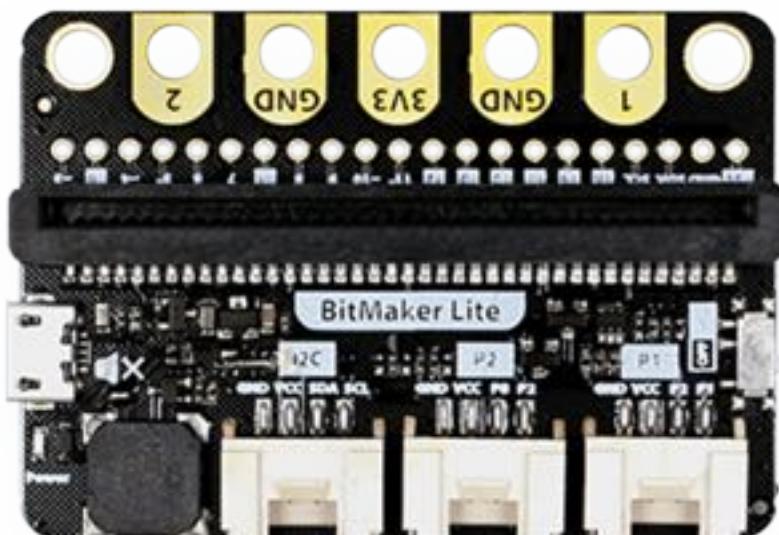
Company: CH Maker



URL: chmakered.com

Connection Type: Uses whole Edge Connector

BitMaker Lite



BitMaker Lite

BitMaker Lite is a cheaper, smaller and more compact version of BitMaker. It has only 3 Grove ports, but it's quite sufficient for many projects. If you want to access more GPIOs, BitMaker Lite also provides breakouts of all available pins of micro:bit, you can solder header connectors to use them.

Company: CH Maker



URL: chmaked.com

Connection Type: Uses whole Edge Connector

micro:bit in Wonderland - Basic Companion Kit



Basic component kit for BBC micro:bit

The *micro:bit in Wonderland - Basic Companion Kit* was created to contain all of the necessary components needed to complete the projects in the *micro:bit in Wonderland* book. It's a project book where you read a chapter from Alice's Adventures in Wonderland and then complete a project linked to the chapter. Most of the projects involve making or crafting something as well as coding.

Kit includes:

3x ElectroFashion Lilac LEDs, 1x Blue 5mm LED, 6x Alligator Test Leads, 1x Encased Piezo Element, 2 x Male to Female Jumper Wires, 4x Crocodile Clips, 1x 80cm Copper Tape, 10x Black Loom Bands, 10 Mini Paper Fasteners

Company: Cool Components



URL: <https://coolcomponents.co.uk/collections/micro-bit/products/micro-bit-in-wonderland-basic-companion-kit>

Connection Type: Crocodile clips

rero:micro Coding Robot



rero:micro Coding Robot

rero:micro comes fully-assembled out of the box. No assembly needed. No tedious and difficult-to-follow construction steps before you can start learning coding. This robot ensures a smooth learning process in any coding class.

Ten informative lessons have been carefully curated to spark the students' interest in coding. Not only that, they will also learn about basic robotics and electronics principles.

Company: Cytron



URL: cytron.io

Connection Type: Uses whole Edge Connector

Micro:bit Quick Start Kit



Micro:bit Quick Start Kit for BBC micro:bit

Micro:bit Quick Start Kit is a STEAM education kit designed to include everything you need to build your first micro:bit STEM project, featuring sound, light and motion elements. It is the perfect project set for school students to learn coding, microcontroller, LED, sensor and motor. On top of all the components in this kit, the box itself is creatively designed to be part of your project too. Let's start making and coding with micro:bit Quick Start Kit!

This kit INCLUDES a micro:bit.

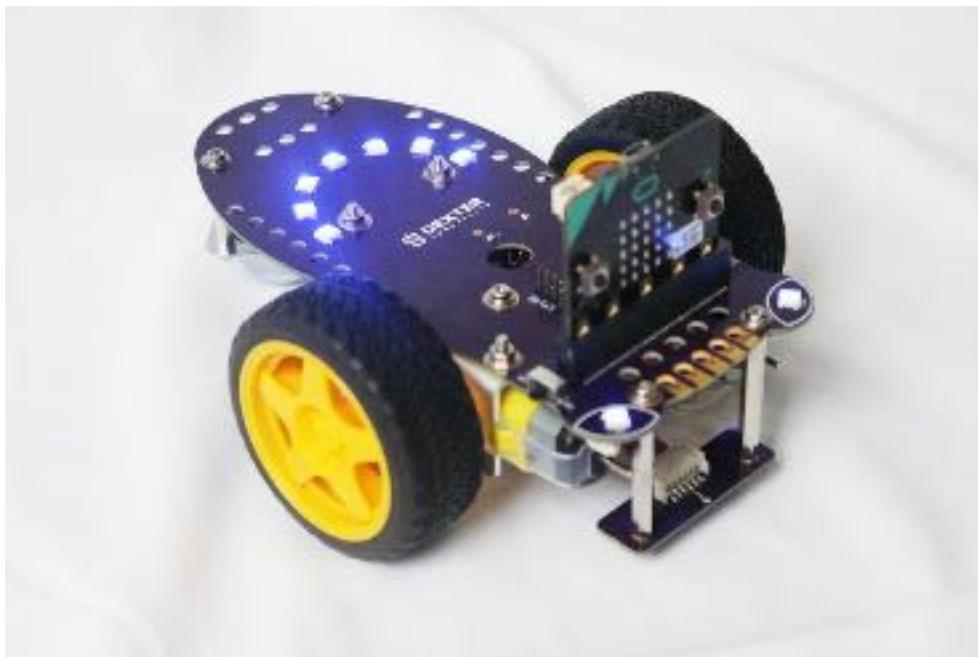
Company: Cytron Technologies



URL: <https://www.cytron.io/c-micro-bit/p-microbit-quick-start-kit>

Connection Type: Crocodile clips

Giggle:Bot



Easy to use robot for the BBC micro:bit

GiggleBot is an easy to use robot that's great for the classroom. Program it in MakeCode. The GiggleBot is a platform that provides hands-on, project-based STEM learning to your students.

GiggleBot an all-in-one coding, robotics and STEAM kit for the next generation of engineers, using the BBC micro:bit. GiggleBot is the platform for the next generation of creators, dreamers, and artists to build STEM literacy and problem solvers

Company: Dexter Industries



URL: <https://www.gigglebot.io/>

Connection Type: Whole Edger Connector

Boson Starter Kit



Boson Starter Kit for micro:bit

DFRobot's Boson starter kit for micro:bit includes 8 well selected modules, covering most popular digital and analog sensors and actuators, supporting sound, light and motion interaction. Modules communicates to micro:bit via 3-Pin interface and are perfectly compatible with Microsoft MakeCode JavaScript online Editor and Python Editor.

- 8 well selected modules, covering most popular digital and analog sensors and actuators, supporting sound, light and motion interaction.
- High accessibility of free-download tutorial and project cards enables students to learn micro:bit everywhere.

Company: DF Robot



URL: www.dfrobot.com

Connection Type: Uses whole Edge connector

Gravity IoT Starter Kit



Electronic Device

Link



Micro-bit

Link



OBLOQ Module

WIFI



Internet

Gravity IoT Starter Kit for micro:bit

IoT Starter Kit is an all-in-one bundle for micro:bit beginners to fast experience and build Internet of Things projects.

The kit comes with a micro:bit microcontroller, a Wi-Fi module (OBLOQ) and 7 sensors/actuators that are wildly used in real-life IoT applications. You can easily setup the Wi-Fi connection in MakeCode Block Editor, program your micro:bit and eventually interact with your smart devices. To make things even easier and fun. We developed EasyIoT, a free educational IoT platform that allows subscribers to exchange and visualize the data.

This starter kit is compatible with hundreds of DFRobot Gravity Series modules, bringing endless possibilities to your IoT applications.

Company: DF Robot

URL: www.dfrobot.com
Connection Type: Screws/Bolts

micro: Maqueen



micro: Maqueen micro:bit Educational Programming Robot Platform

I'm Maqueen, a smart educational robot in shape of car.

Despite a mini body, I was born with powerful features to allow students to easily learn programming, robotics, electronics and science in entertaining. Take me as pet to grow up along with you!

- Affordable - No budget pressure
- Palm size - Small enough to carry and collect
- Quick to Assemble - Save time for entire class
- Easy to Start - Friendly and playful to beginners
- Coding Language path - Learn from blocks to text coding
- Powerful - All basic functions you can think of
- Wide Extension - DIY projects with endless possibilities
- Abundant Teaching content - Online tutorials and guidebook

Company: DF Robot



URL: www.dfrobot.com

Connection Type: Uses whole Edge Connector

micro:IoT



micro:IoT – micro:bit IoT Expansion Board

An easy-to-use and efficient IOT teaching tool

- Multiple functions are integrated in one piece, which makes teaching more efficient.
- Cute and delicate design can trigger students' interest for learning.
- Abundant extensions, such as Wi-Fi, OLED, 2-way motor drive, 6-way IO port, 2-way IIC, 1-way serial port, 1-way buzzer, 3-way RGB, 2-way servo, Li-ion battery holder, etc. make teaching resource more diversified and rich.

Company: DF Robot



URL: www.dfrobot.com

Connection Type: Uses whole Edge Connector

Nature & Science



Nature & Science Expansion Board

Integrate more than ten kinds of nature and science related sensors, including atmospheric pressure, temperature, humidity, UV rays, light, color, sound, water quality, water temperature, soil moisture.

- Large size and function integration making teaching easier.
- Lovely shape can trigger students' interest for learning.
- Abundant sensor and function, such as temperature, humidity, atmospheric pressure, UV, color, light, sound, water temperature, TDS, RGB-LED, OLED, GPIO etc. making teaching content more diversified and abundant.

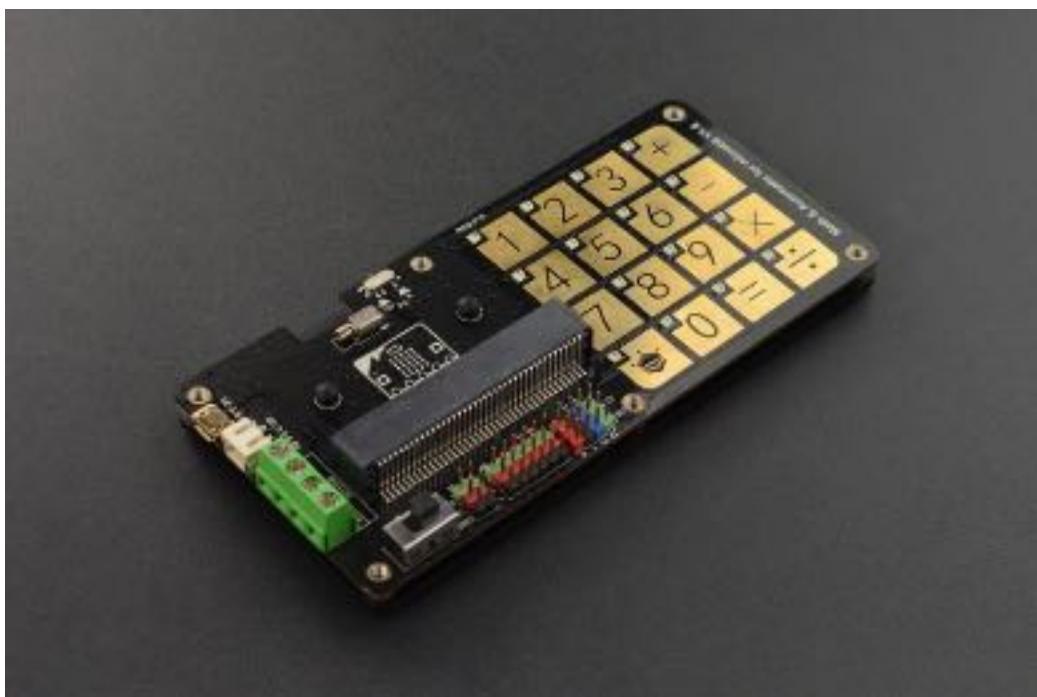
Company: DF Robot



URL: www.dfrobot.com

Connection Type: Uses whole Edge Connector

Math and Automatic



Math & Automatic Expansion Board

Math & Automatic expansion board is designed for two kinds of application: fun math games and automation control. Multiple functions are integrated on the board:

- The touch programmable keyboard*16 and RGB-LED*16, provides the function rich and the change nimble input and the output way.
- Motor driver *2, servo driver *2, GPIO *9, provides sufficient application extension possibilities for automation application scenario.
- Vibration motor and buzzer make a variety of choices for key feedback.

Company: DF Robot



URL: www.dfrobot.com

Connection Type: Uses whole Edge Connector

micro:Gamepad



micro:Gamepad

Micro:bit gamepad is an expansion gamepad based on micro:bit. You only need to plug in the micro:bit, it will turn into a wireless remote controller a wireless game console. This product packaged with acrylic plate, that giving it a good feel and no longer feels like a bare circuit board. The gamepad has a total of 8 buttons, the left side have up, down, left, right four buttons, the right side has X, Y two buttons, and two buttons A, B are in the front of the gamepad. The gamepad also has programmable built-in vibration motor, buzzer, and LED. Using graphical programming, it will turn into a multimedia vibration controller or multimedia interactive game console instantly. The programming platform supports MakeCode graphical programming and python. It is a very suitable tool for both beginners and masters.

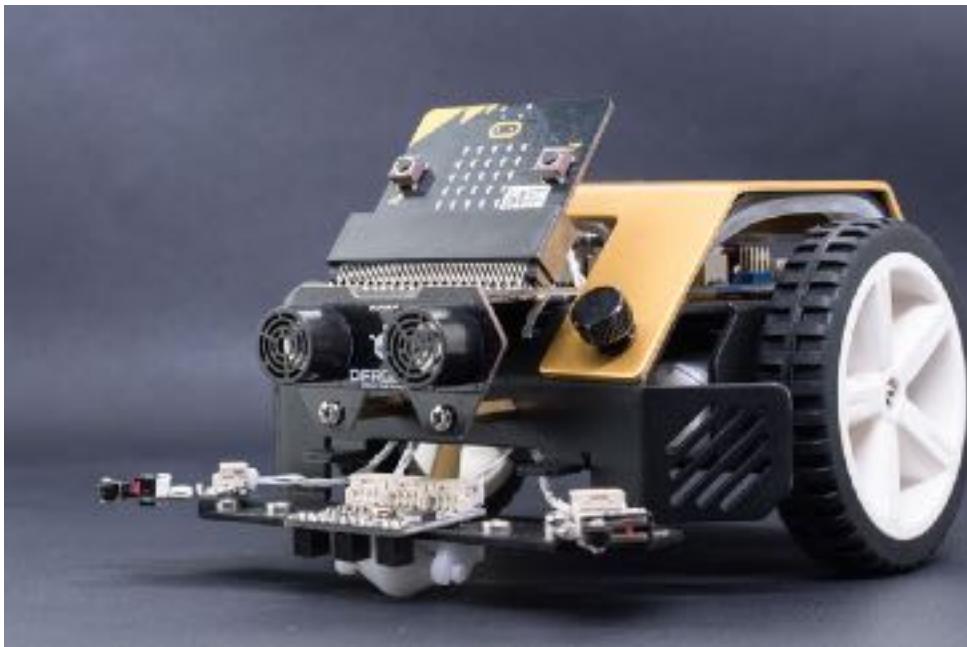
Company: DF Robot



URL: www.dfrobot.com

Connection Type: Uses whole Edge Connector

Max:bot



Max:bot DIY Programmable Robot Kit

Max:Bot An entry-level DIY robot that maximizes children's creativity.

Max:Bot is a programmable toy for 8+ years old kids to learn about robotics.

10+ electronic modules, including motors, speakers, line trackers, distance sensors, gesture sensor, etc. Extendable with 50+ DFRobot Boson modules.

Well-designed aluminum structure, assemble the robot by your kid's own.

Company: DF Robot



URL: www.dfrobot.com

Connection Type: Uses whole Edge Connector

micro: Circular RGB LED



micro: Circular RGB LED Expansion Board

Flashing in different ways.

This board can be a cool clock, a timer, a Lucky Turntable Game, a wearable ornament, and an interactive colored pendant.

With a micro:bit main board, this 24 RGB LEDs circular expansion board changes to an exquisite creator's piece. You can turn it into a tomato timer via the onboard buzzer, and turn it into a colorful music spectrometer through the onboard microphone; there are two external ports P0, P1 in reserve, so you can get more ways to play by connecting a large number of boson and gravity sensors. With different paper-cuts and acrylics, you can put on a variety of new clothes for the expansion board.

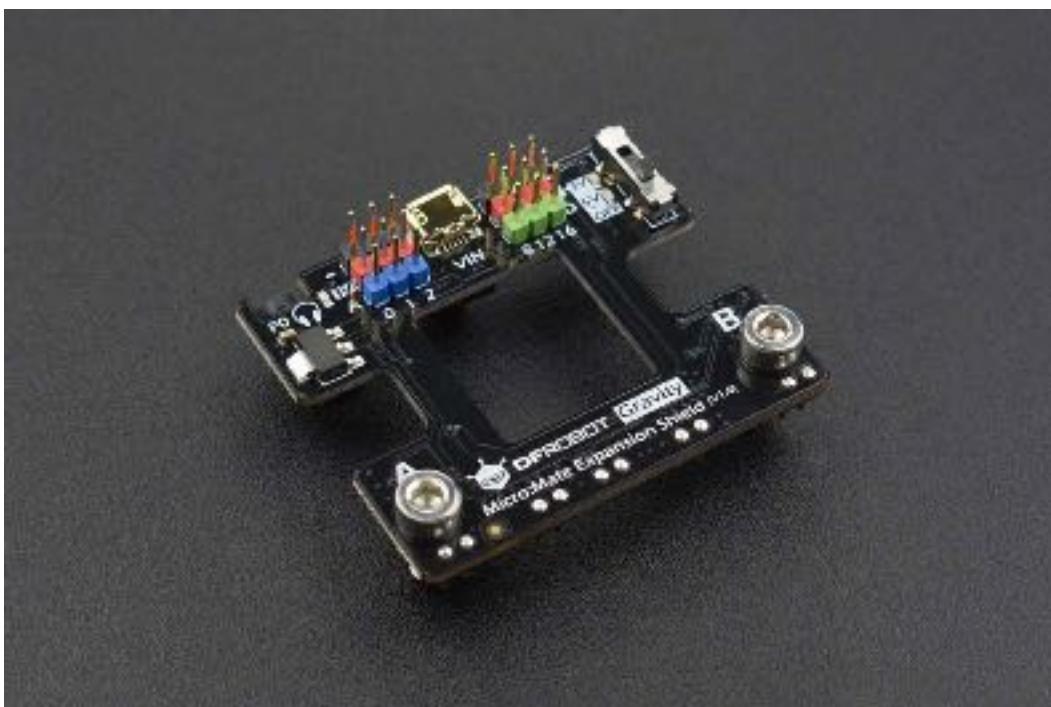
Company: DF Robot



URL: www.dfrobot.com

Connection Type: Screws/Bolts

Micro:Mate



Micro:Mate – A mini expansion board for micro:bit

Micro:Mate is a tiny micro:bit I/O expansion board for learning electronics and building DIY projects.

Micro:Mate expands 6 sets of 3-pin I/O interfaces, capable of connecting DFRobot Gravity series modules, servo motors, sensors and jumper wires. Additionally, Pin 8, 12, 16 support voltage switch between 3V-5V, allowing up to 5V 2A digital (PWM) output.

Micro:Mate is in the same dimension of micro:bit. It connects to micro:bit through contact pins (with spring loaded), ensuring easy, compact and secure connection. The rubber bumpers and the 3.5mm audio jack on the back side keep the expansion installed stably on the board, meanwhile prevents reversed connection.

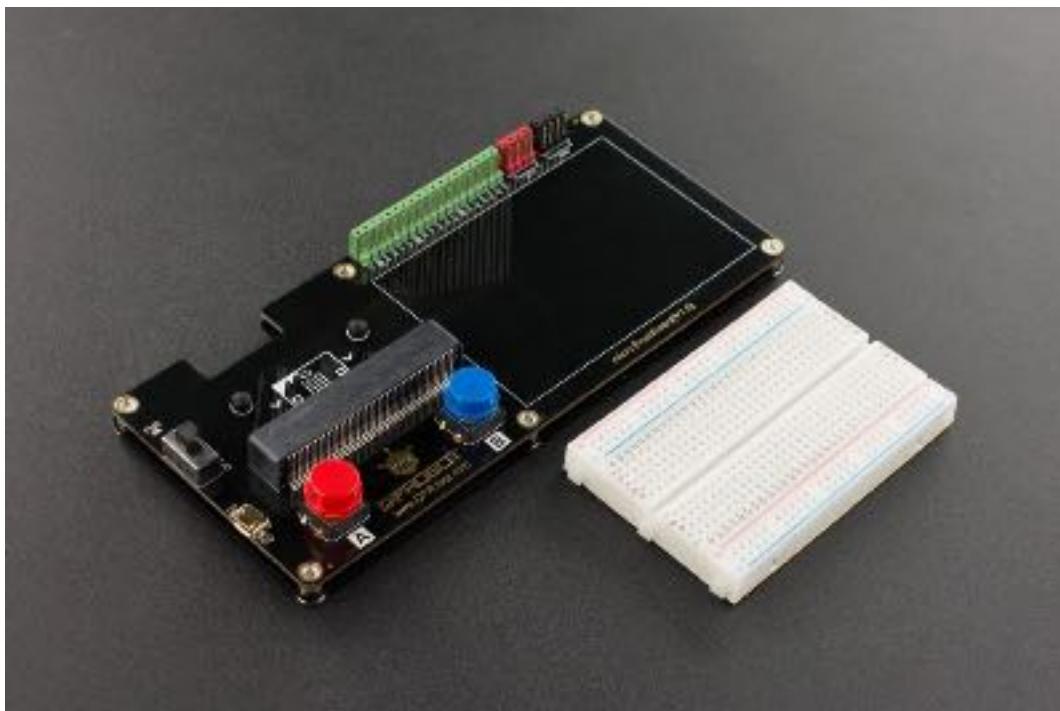
Company: DF Robot



URL: www.dfrobot.com

Connection Type: Screws/Bolts

micro: Breadboard



micro: Breadboard

Micro:breadboard is a micro:bit-based expansion board specially designed for STEM-starter. It comes with a 3.23*2.17" breadboard (independent packing, you need to stick them together), on which you can directly build circuit with all sorts of electronic components.

All IO ports are led out in the form of pin header and female header, no welding required, plug and play. The electronic parts can be used repeatedly, which greatly reduces the circuit building time. The board has on-board AB buttons, PWR indicator, and independent power switch, more ways to play, meanwhile, much easier to use.

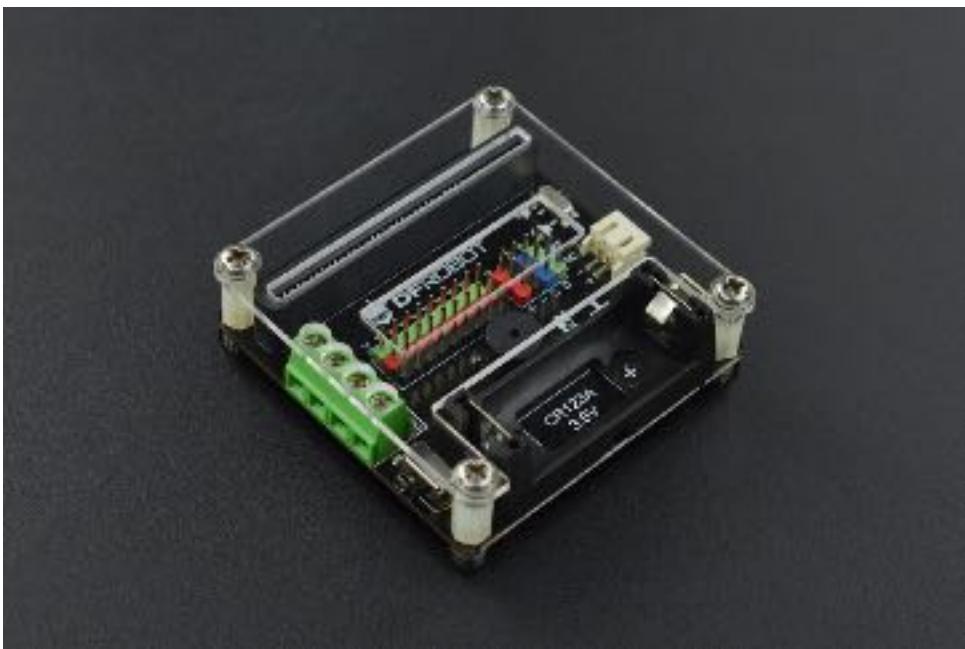
Company: DF Robot



URL: www.dfrobot.com

Connection Type: Uses whole Edge Connector

Micro: IO-BOX



Micro: IO-BOX Expansion Board

Micro: IO-BOX is a micro:bit multifunctional expansion board with on-board Li-ion battery power, delicate appearance and easy to use. We integrated numerous functions on the 6cm×6cm board such as 2-way driver motor, 9-way IO port, 2-way I2C port, 1-way serial port, 1-way buzzer, 4-way RGB LED, Li-ion battery box, charge circuit, emergency power interface, etc.

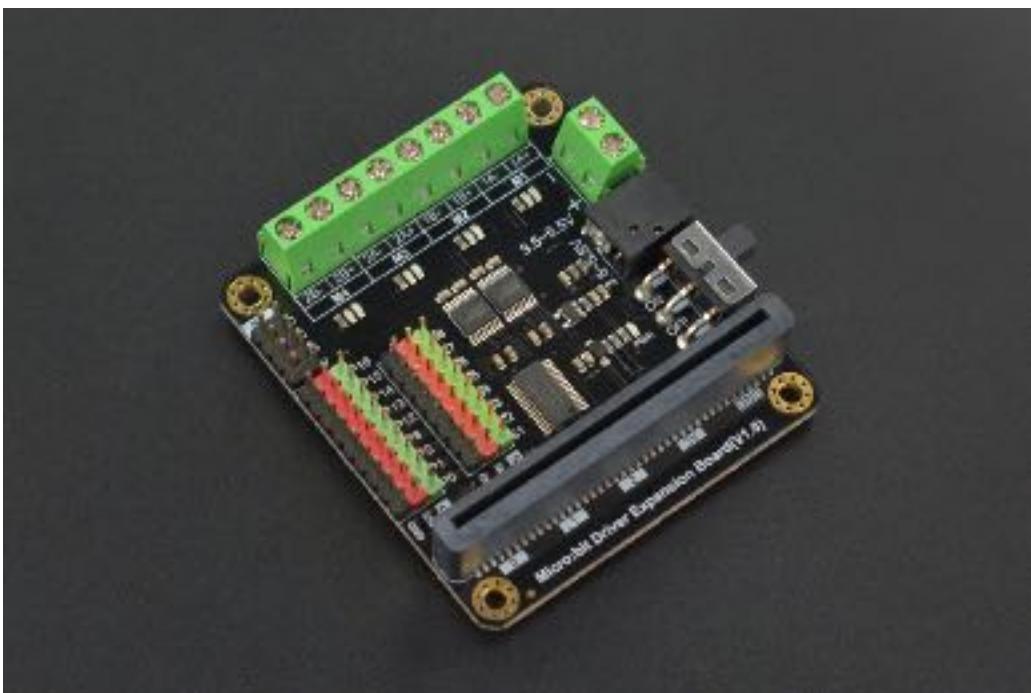
Company: DF Robot



URL: www.dfrobot.com

Connection Type: Uses whole Edge Connector

micro:bit Driver Expansion Board



micro:bit Driver Expansion Board

Since the advent of micro:bit, its simple and practical way of programming is widely loved by makers, students and teachers. Its sample design, coupled with a wealth of pin resources, give it infinite possibilities. This expansion board not only leads to 9 micro:bit onboard GPIO interfaces, but also comes with 4-way motor drives and 8 servo interfaces, of which 4-way motor drives can be reused as 2-way stepper motor drives.

This expansion board supports 3.5V to 5.5V power supply. It provides a DC 2.1 plug and a wiring terminal which can be connected directly to three dry battery boxes. It comes with a USB to DC 2.1 adapter cable, which can be powered by power bank and is more economical and environment-friendly.

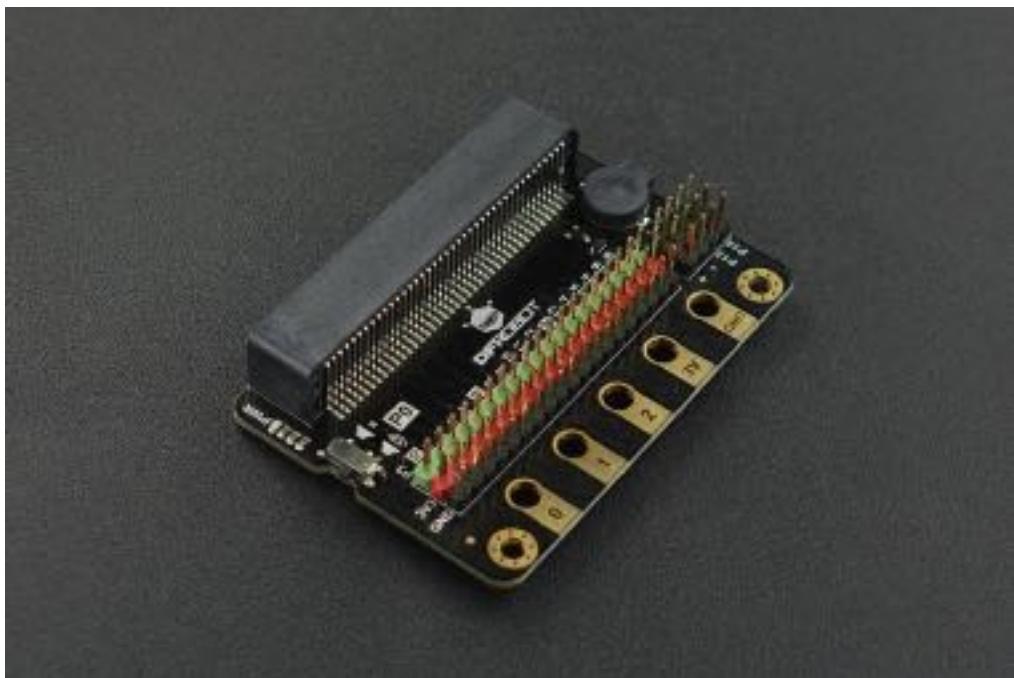
Company: DF Robot



URL: www.dfrobot.com

Connection Type: Uses whole Edge Connector

micro:IO Extender



micro:IO Extender – a micro:bit IO Expansion Board

A simple IO extension board for micro:bit. This board leads out all IO ports of micro:bit that are in accordance with Gravity standard interface. Meanwhile, it has independent I2C and Serial port. The board also integrates the frequently-used buzzer and edge connector contacts.

The silkscreens on the back clearly indicate the functions of all interfaces, which can help users to get started easily.

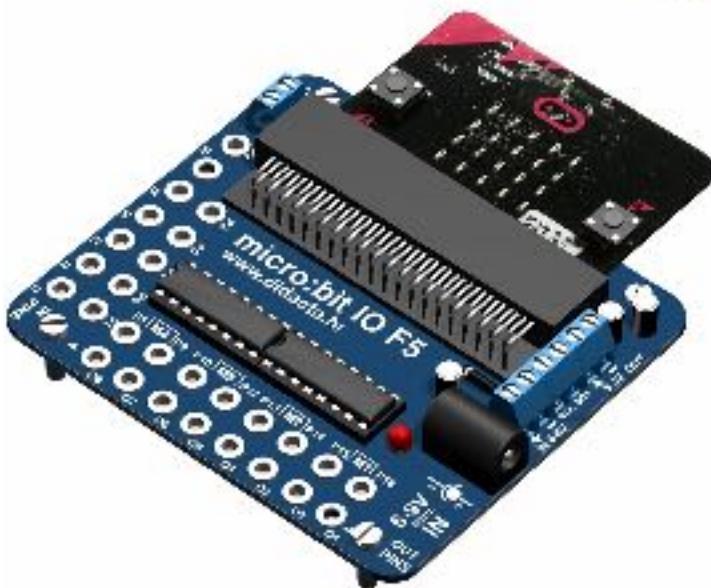
Company: DF Robot



URL: www.dfrobot.com

Connection Type: Uses whole Edge Connector

micro:bit IO F5



micro:bit IO F5 for micro:bit

Board and micro:bit power supply via universal power adapters (6 - 9V) or batteries (6 - 9V). Outputs for connecting standard 4 x DC motors or 8 x lights. Maximum output power 600 mA per connector. Input power should be aligned with the output power of the consumer. Up to 6 sensors, 5 x analog / digital and 1 x digital. Connection for I2C sensor control. Output power 5V and 3.3V. Rubber mounting feet on the model (inserted into the hole element), 60 mm spacing. All standard sensors (photo, mini-switch, magnetic, thermal, etc.) can be used, which outputs up to 5V. POWER SUPPLY CONNECTOR 5.2 x 2.1 mm

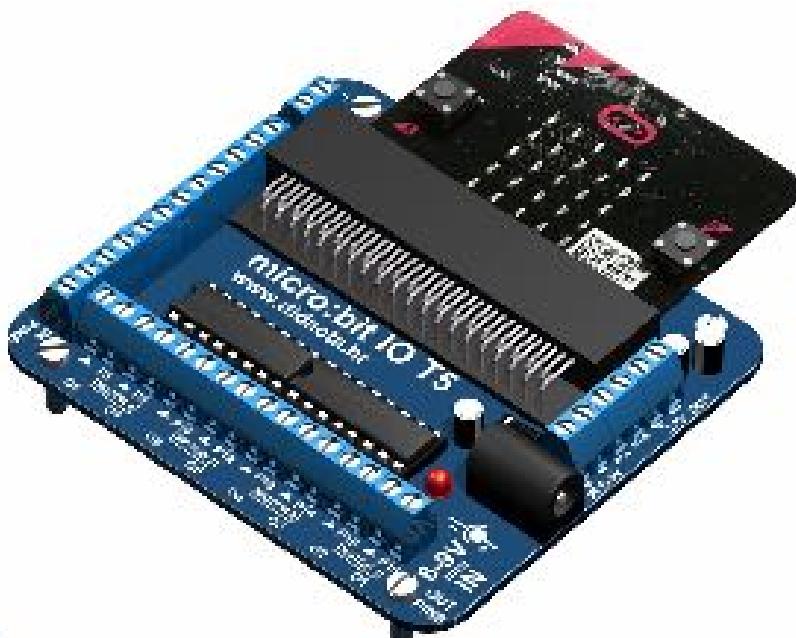
Company: Didacta advance d.o.o

DIDACTA

URL: didacta.hr

Connection Type: Edge connector

micro:bit IO T5



micro:bit IO T5 for micro:bit

Board and micro:bit power supply via universal power adapters (6 - 9V) or batteries (6 - 9V). Outputs for connecting standard 4 x DC motors or 8 x lights. Maximum output power 600 mA per connector. Input power should be aligned with the output power of the consumer. Up to 6 sensors, 5 x analog / digital and 1 x digital. Connection for I2C sensor control. Output power 5V and 3.3V. Rubber mounting feet on the model (inserted into the hole element), 60 mm spacing. All standard sensors (photo, mini-switch, magnetic, thermal, etc.) can be used, which outputs up to 5V.

Company: Didacta advance d.o.o

DIDACTA

URL: didacta.hr

Connection Type: Edge connector

Robotics Set for micro:bit



Robotics Set for micro:bit + IO F5

11 functional models. 6 beginner models and 5 mobile (car) models. In set we include different sensors like switch, photo, infrared, ultrasonic and color. Except building elements we include power supply 9V, micro:bit IO F5 board, BBC micro:bit and USB cable. 180 parts is in this set.

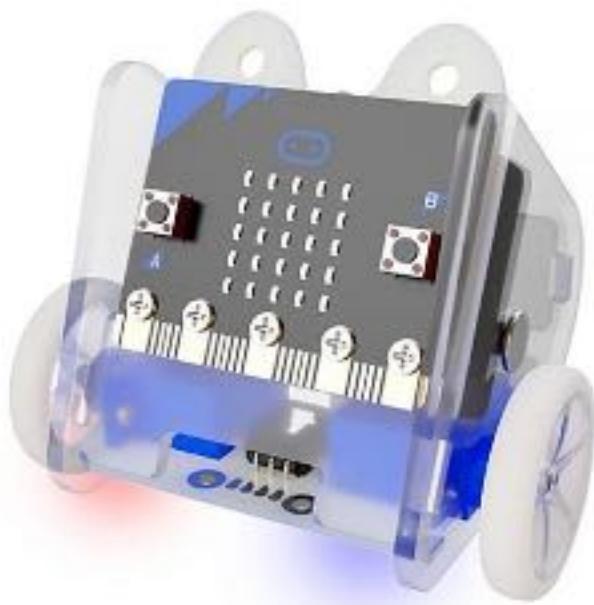
Company: Didacta advance d.o.o

DIDACTA

URL: didacta.hr

Connection Type: Edge connector

MIBO



MIBO micro:bit robot

MIBO extends the micro:bit's 3 GPIO ports, allowing different sensors and components to be easily attached to the micro:bit. Add the ebotics MIBO extension and program MIBO to follow a line, draw, dance, light in different colors and much more!

Company: Ebotics

ebotics

URL: ebootics.com/mibo

Connection Type: Screws/Bolts

Experiment Box



Experiment Box for micro:bit

The Elecfreaks Experimental Board is a teaching aid developed by ELECFREAKS. We included traditional components such as the temperature sensor, photocell, servo, motor and LEDs. But also added electronic components such as the MOSFET transistor, different values of resistors, and a potentiometer to combine circuit design with programming. For this experimental board, you'll use banana plug wires to connect the different components. These wires are easy to insert and pull out yet still create stable connections. At the same time, using banana plugs lays a foundation for further circuit design. Use MakeCode - micro:bit's graphic programming language, to control these components or learn the basics of circuit design without the micro:bit.

Company: ELECFREAKS



URL: <https://www.elecfreaks.com/estore/micro-bit>

Connection Type: Edge connector & Banana Plugs

ElecFreaks micro:bit Starter Kit



ElecFreaks micro:bit Starter Kit for micro:bit

The ElecFreaks micro:bit Starter Kit is designed for new entrants to the world of electronic circuitry and programming. The kit packs basic electronic components like LEDs, buttons, a buzzer, temperature sensor, potentiometer and motor etc and includes 13 different projects in the instruction manual. Great for beginners to master the principles of electronic circuitry, components, and basic programming.

Company: ELECFREAKS



URL: <https://www.elecfreaks.com/estore/micro-bit>

Connection Type: Edge connector & Breadboard

Ring:bit Car



Ring:bit Car for micro:bit

The ELECFREAKS Ring:bit Car is a small DIY smart car driven by the BBC micro:bit and the ELECFREAKS Ring:bit. The Ring:bit extends the micro:bit's 3 GPIO ports and allow for different sensors and components to be easily attached to the micro:bit. A basic Ring:bit Car can be easily programmed to run autonomously, with a remote control, and even create rainbow beacons of light. Just add one of the many extensions available and your Ring:bit Car can do even more things like line and light following, obstacle avoiding, drawing and more!

Company: ELECFREAKS



URL: <https://www.elecfreaks.com/estore/micro-bit>

Connection Type: Screws/Bolts

Micro:bit Smart Home Kit



Micro:bit Smart Home Kit for *micro:bit*

The Smart Home Kit is developed to help beginners create small scale home automation projects. We selected useful components for a home such as the TMP36 temperature sensor, sound sensor, crash sensor, servo, motor. Use these projects as a stepping stone to creating a better, more efficient house or simply play with this kit and unleash your creativity!

Company: ELECFREAKS



URL: <https://www.elecfreaks.com/estore/micro-bit>

Connection Type: Edge connector

Micro:bit Smart Car Kit



Micro:bit Smart Car Kit for micro:bit

The Motor:bit Smart Car Kit is a tailor-made smart car utilizing the micro:bit and motor:bit. This kit includes a motor:bit, sonar:bit and 2 line tracking modules. Use this kit to build a DIY micro:bit two-wheel smart car with line-tracking, obstacle-avoiding features.

Company: ELECFREAKS



URL: <https://www.elecfreaks.com/estore/micro-bit>

Connection Type: Screws/Bolts & Edge connector

Micro:bit Basic Kit



Micro:bit Basic Kit for micro:bit

ELECFREAKS micro:bit basic kit is an entry-level kit. It holds a curated selection of 5 most commonly used component bricks, which can be easily connected to micro:bit via basic:bit. This kit can help students learn how to build their micro:bit projects quickly. And these component bricks can be driven by the usual MakeCode blocks without having to add any extra packages. It is helpful for students to understand the usage of different components through basic I/O principles.

Company: ELECFREAKS



URL: <https://www.elecfreaks.com/estore/micro-bit>

Connection Type: Edge connector

Micro:bit Watch Kit



Micro:bit Watch Kit for micro:bit

The micro:bit Watch Kit is a DIY wearable device utilizing the power:bit. The set includes a power:bit, a strap and a neopixel ring. With some simple assembly and programming, you can create a micro:bit watch with multiple functionalities!

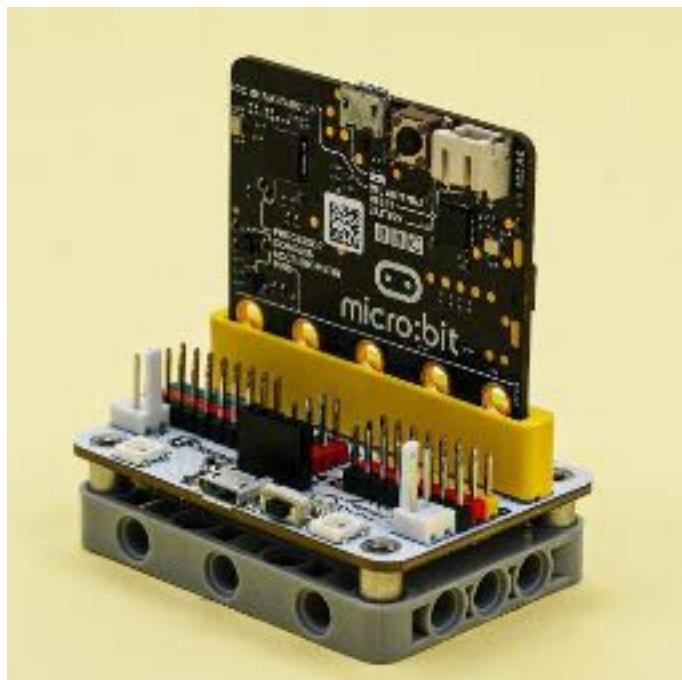
Company: ELECFREAKS



URL: <https://www.elecfreaks.com/estore/micro-bit>

Connection Type: Screws/Bolts

Wukong board



Wukong board with Lego holder

Wukong is a high integrated breakout board with multiple functions based on micro:bit, which has a similar size with the micro:bit with buzzer, servo and motor drivers on board. The base board designs with standard 7x5 square bricks that can adapt perfectly to Lego.

Company: Elecfreaks



URL: <https://www.elecfreaks.com/estore/micro-bit>

Connection Type: Uses whole Edge Connector

IOT:bit



IOT:bit for micro:bit

IOT:bit is an expansion board based on IoT for micro:bit. It uses ESP8266 as WIFI expansion board and serial port to communicate with micro:bit. It also has extended all available IO port of the micro:bit which is leaded by GVS and you can extent various 3V E-blocks as LED, photosensitive and servo by using it. At the same time, the IOT:bit with an on-board buzzer for outside sound and an on-board RTC clock for timing without power supply. Let's creating your own IoT by MakeCode!

Company: Elecfreaks



URL: <https://www.elecfreaks.com/estore/micro-bit>

Connection Type: Uses whole Edge Connector

Four Channel Relay



Four Channel Relay

Are you still looking for a relay module for the micro:bit? Here we have combined the relay with the micro:bit and you can use micro:bit to control 4 relays at the same time.

Company: Elecrow



URL: elecrow.com

Connection Type: Uses whole Edge Connector

Multipurpose dock



Dock for BBC micro:bit

This dock adds push buttons, buzzer, servo control, analog input voltage from a potentiometer, IR transceiver, I2C LCD interface, SD card interface plus prototyping area to your BBC micro:bit and provides easy access to its I/O's

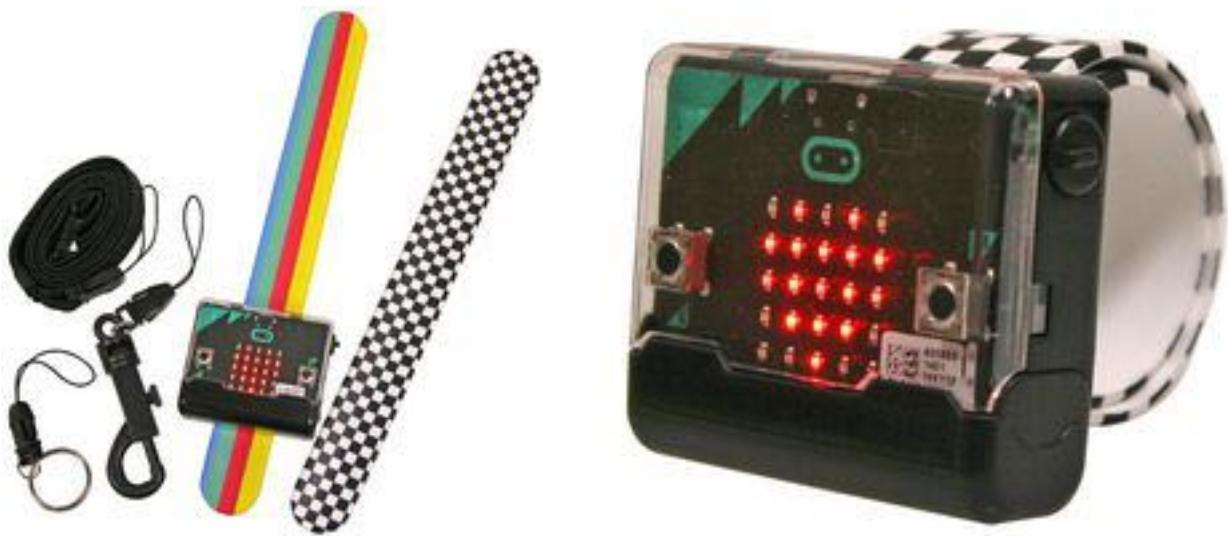
Company: Elektor



URL: <https://www.elektor.com/micro-bit-dock-module-160274-91>

Connection Type: Whole edge connector

Wear:it Kit



Wear:it kit for BBC micro:bit

Build it, code it, wear it! Power your first foray into wearable tech with this exciting kit that includes everything you need to get started with your first project. The versatile micro:bit enclosure is specially designed to suit mobile applications and can be used with a wrist strap, keyring or lanyard.

Write code using one of the easy to use editors provided on the BBC micro:bit website

Connect your BBC micro:bit to your computer via the included USB cable

Finally press the compile button in the editor and then drop the downloaded file directly onto your BBC micro:bit!

The micro:bit Android and iOS also apps let you send code to your micro:bit wirelessly using Bluetooth!

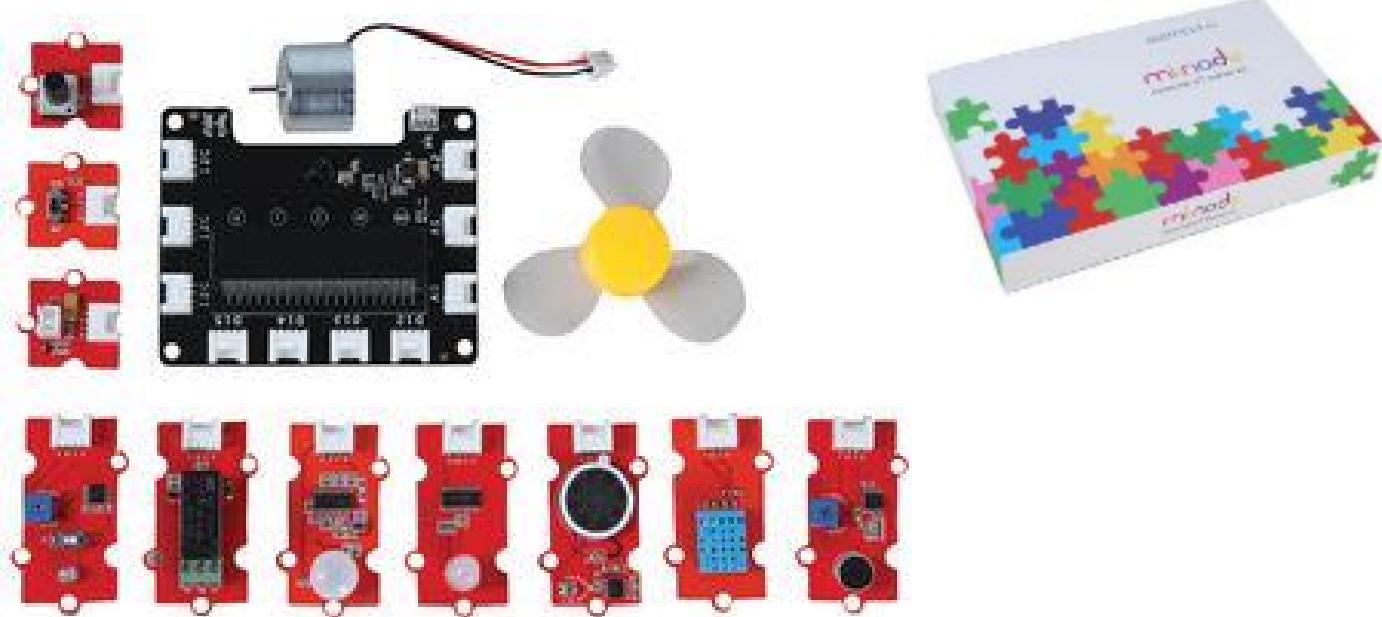
Company: Element 14

 element14

URL: http://uk.farnell.com/element14/mbit-wearit/micro-bit-32bit-arm-cortex-m0/dp/2832540?MER=bn_level5_4NP_LastViewed_1

Connection Type: Connects to Battery inside case

MI:Node



MI:Node kit for BBC micro:bit

A fun, easy to use modular kit designed to help teens get interested in IoT mechanics with minimal effort. The pack consists of a main connection board that houses the micro:bit edge connector and several modules that range from light and sound sensors to LEDs, speakers and even fans!

The modules snap together like building blocks - complete a working circuit in less than a minute

No soldering is required, designed for kids aged 14 and above

Comes complete with a full guide that includes various project ideas

Company: Element 14

element14

URL: http://uk.farnell.com/element14/minode-kit-v1/minode-kit-for-microbit/dp/2821832?st=MINODE_KIT_V1

Connection Type: Uses whole edge connector

WiFi:bit



WiFi:bit

Micro:bit is a very interesting board with lots of options that are used by many children in school or hobbyists, but new possibilities cannot harm it! So we decided to make a micro:bit add-on that will enable internet connection via WiFi! Finally, you'll be able to connect your micro:bit projects to the Internet and to connect to already known Internet of Things. WiFi:bit add-on is easy to use through a MakeBlock add-on or using completed Python examples.

Company: e-radionica.com



URL: e-radionica.com

Connection Type: Uses whole Edge Connector

Micro:Gamer



Micro:Gamer

Micro:Gamer is a portable game console extension for the micro:bit board. It features a 128x64 monochrome OLED screen, six buttons (plus the two buttons of the micro:bit), a buzzer for sound and a 2xAAA battery holder. The micro:bit is inserted in the back of the board, like a game cartridge on the GameBoy.

The Micro:Gamer can be programmed with the Arduino IDE using a library derived from the Arduboy. Since the Arduboy and Micro:Gamer have the same screen and buttons, it is very easy to port games from the Arduboy to the Micro:Gamer.

Company: Fabien Chouteau

URL: tindie.com/products/Fabien-C/microgamer

Connection Type: Uses whole Edge Connector

Starter Set for micro:bit



Starter Set for micro:bit

The new “Starter Set for micro:bit” by fischertechnik teaches the basic principles of programming with micro:bit single board computers for students grades three and up in an easy to understand way. This complete set includes a fischertechnik part set for building three stationary models and the new fischertechnik “micro:bit IO F5 adapter”. The adapter board has 8 outputs and 6 inputs. It can be used to control simple, easy to understand demonstration models (a pedestrian walk sign, hand dryer, barrier) equipped with actuators and sensors using the “micro:bit board”. The additional pedagogical manual offers help in starting up the models, a variety of exciting tasks, and is available free of charge as a download from the eLearning portal.

Company: fischertechnik

fischertechnik

URL: fischertechnik.de

Connection Type: Edge connector

LOBOT DaDa:bit 20 in 1 Transformative Building Blocks



LOBOT DaDa:bit 20 in 1 Transformative Building Blocks

It's our newly launched DaDa:bit, a micro:bit programmable electronic building blocks kit. 20 in 1, right, a real transformers for you and your kids, which includes micro:bit, extension board, more than 10 modules and 200 structural components, support micro:bit and python programming...

Company: Hiwonder

Hiwonder

URL: hiwonder.hk

Connection Type: Uses whole Edge Connector

Qbit



Qbit micro:bit self-balancing robot

Input: Ultrasonic sensor, Infrared obstacle avoidance sensor, Color sensor, Button.

Electronic compass, Temperature sensor, Sound sensor.

Output: Buzzer, RGB lights, Two motor Interfaces, Five X Five LED dot matrix, Two expansion interfaces.

Communication Interface: USB, Bluetooth.

Controller: micro:bit

Power : 3.7V Lithium Battery

Company: Hiwonder

Hiwonder

URL: hiwonder.hk

Connection Type: Uses whole Edge Connector

Extension Board



Extension Board

RGB full color lights: display a variety of colors

Ultrasonic sensor interface: connect ultrasonic sensors and expand more functions

Motor Interface: connect motor.

Buzzer: able to use it to make a variety of wonderful music

Color sensor interface: color sensor can be connected to identify colors and expand more functions

Sound Sensor: More programs can be controlled by sound

Servo interface: connected to the servo(PWM servo and bus serial servo)

Line-tracking sensor interface: able to connect additional line-tracking sensor

Company: Hiwonder

Hiwonder

URL: hiwonder.hk

Connection Type: Uses whole Edge Connector

Alienbot



Alienbot Intelligent Quadruped Robot

- Three-port serial bus
- Compatible with LEGO bricks
- Support graphical programming
- micro:bit + serial bus servo controller
- More than ten electronic modules and sensors
- Support phone app control, micro:bit control, and PC programming

Company: Hiwonder

Hiwonder

URL: hiwonder.hk

Connection Type: Uses whole Edge Connector

Microbot



Microbot

- micro:bit graphical program, Block Editor/JavaScript language
- Small body with mighty functions
- Less assembly process, designed for beginner learning

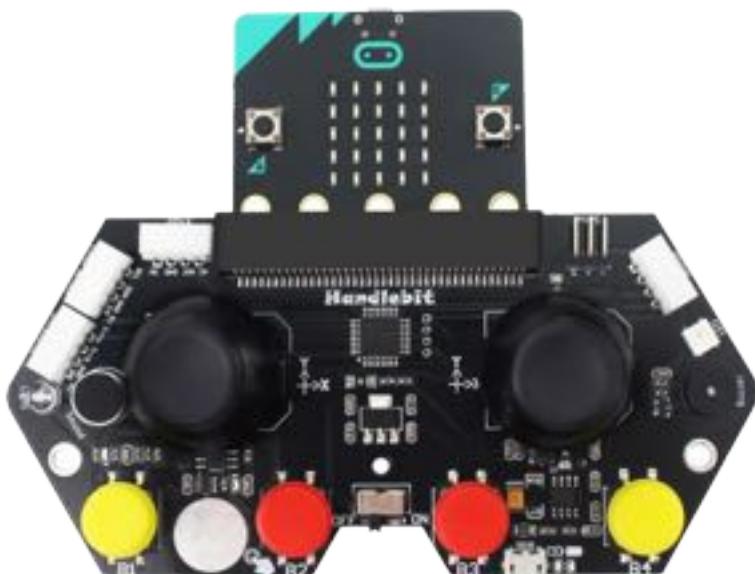
Company: Hiwonder

Hiwonder

URL: hiwonder.hk

Connection Type: Uses whole Edge Connector

Handlebit



Handlebit

- Support JavaScript and Python
- Include various electronic modules
- Control Hiwonder micro:bit series robots
- Compatible with Hiwonder all series sensors

Company: Hiwonder

Hiwonder

URL: hiwonder.hk

Connection Type: Uses whole Edge Connector

uHandbit



uHandbit Programmable Robotic Hand for AI Learning

- Support graphical programming
- Equipped with plenty of modules
- Use micro:bit + micro:bit Expansion board
- Various control and programming methods

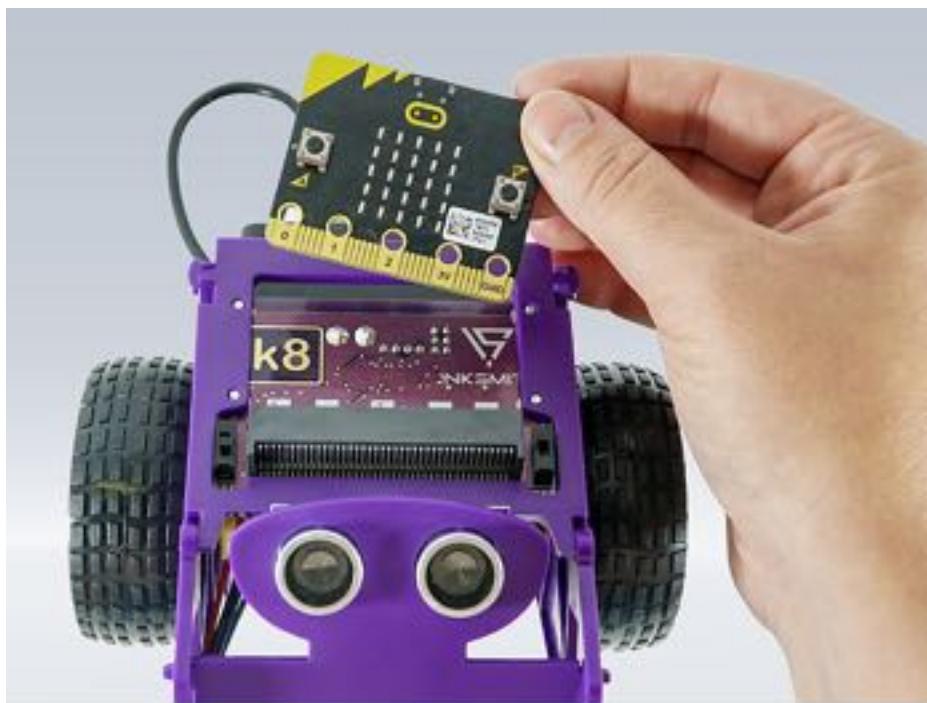
Company: Hiwonder

Hiwonder

URL: hiwonder.hk

Connection Type: Uses whole Edge Connector

K8 Robotics kit



Robotics kit for BBC micro:bit

Meet k8, your modular robotics kit for learning Computational Thinking.
What's in the Box?

- 1 x BBC micro:bit The “brain” of your robotics kit
- 1 x K8 Interface Board The “nervous system” of your robotics kit
- 3 x IR Sensors Detects how light or dark the ground is
- 2 x 9 Gram Servo Motors Used to pickup and move objects around
- 2 x Motors with 65mm Wheels Drives your robot to move in its environment
- 1 x 4 'AA' Battery Box + 4 'AA' Batteries Powers your robot
- 1 x Ultrasonic Sensor Allows your robot to detect how far away objects are
- 1 x Curriculum Platform Curriculum based lesson plans for teaching comp thinking and deep learning principles

Company: INKSMITH



URL: <https://www.inksmith.co/product-page/k8-robotics-kit>

Connection Type: Whole edge connector

Climate Action Kit



Climate Action Kit – Land

- 5x Project-Based Lessons and Online Educator Curriculum Courses
- Climate Action micro:bit Breakout Board
- Alligator Clips
- DC Water Pump
- DC Motor & Fan
- Moisture Sensor
- 360 Servo Motor
- Infrared Sensor
- Tube & Connectors
- pH Strips

micro:bit NOT included

Company: INKSMITH	
URL: inksmith.ca	
Connection Type: Uses whole Edge Connector	

miniPow



miniPow built-in power expansion board

Features

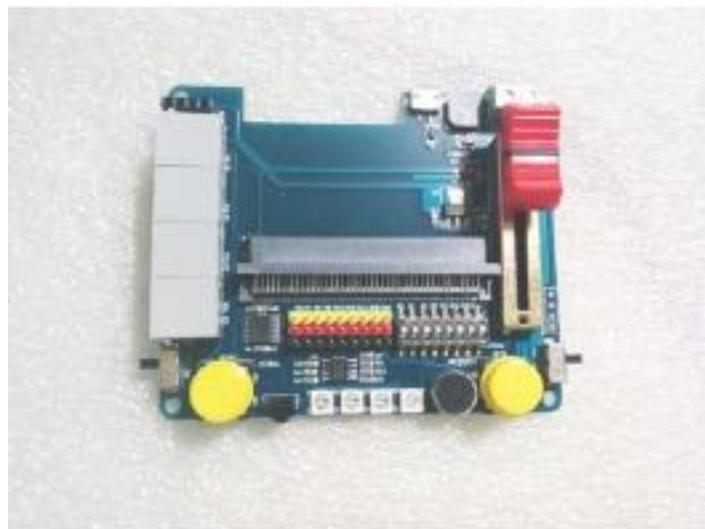
- Build in power (Lithium Titanate Oxide 4.8V / 250mAh)
- 4 ports of servo motor control (Sharing P1)
- Charging with USB
- Operating Voltage : 3.9V ~ 5.5V
- Buzzer with independent on/off switch
- M3 Standoff for easy and stable mounting
- Available 3.3V extension soldering pad
- Compact size: L52mm X W42mm X H20mm

Company: Jason Workshop Robot Store

URL: tindie.com/products/jasonleung8866

Connection Type: Screw/Bolts

micro:bit RJ11 Sensor Extension Board



micro:bit RJ11 Sensor Extension Board

Compatible with RJ11 sensors, 5V and 3V IO.

Includes slider, microphone, buzzer, 4 full color LEDs, 2 buttons

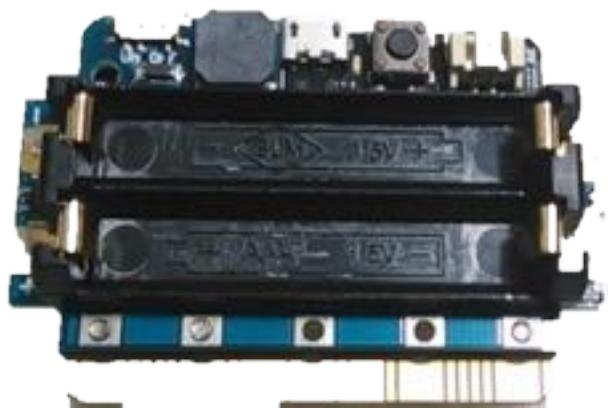
Company: KAISE Electronic

KAISE

URL: kaise.com.tw

Connection Type: Uses whole Edge Connector

AAA Battery Board



KSB036 *micro:bit* AAA Battery Board

- Buzzer
- Switch
- Holds 2 AAA batteries

Company: Kaise Electronic

KAISE

URL: kaise.com.tw

Connection Type: Screws/Bolts

Motor Board



KSB037 *micro:bit* Motor Board

- Buzzer
- Switch
- 5V-3V Logic Level Converter IC
- 5V / 3V IO level switch
- Dip switch (motor pin / IO pin selection)
- P0 P1 P2 P8 P12 P13 P14 P15 P16 9 3-row pin IO pins
- 2-way motor
- 6.5V~13V power input
- 3V~6.5V power input (jumper)

Company: Kaise Electronic

KAISE

URL: kaise.com.tw

Connection Type: Uses whole Edge Connector

Servo Board



KSB038 *micro:bit* Servo Board

- Buzzer
- Switch
- 5V-3V Logic Level Converter IC
- 5V / 3V IO level switch
- 8 3-row servo gears S0~S7 (welded pins)
- 8 3 rows of steering gears S8~S15 (the pins are not welded)
- P0 P1 P2 P8 P12 P13 P14 P15 P16 9 3-row pin IO pins
- 6.5V~13V power input
- Power supply up to 5V 3A for steering gear
- IIC pin

Company: Kaise Electronic

KAISE

URL: kaise.com.tw

Connection Type: Uses whole Edge Connector

Lithium Battery Board



KSB040 micro:bit Lithium Battery Board

- Buzzer
- Switch
- Built-in 140mAh lithium battery
- micro USB charging

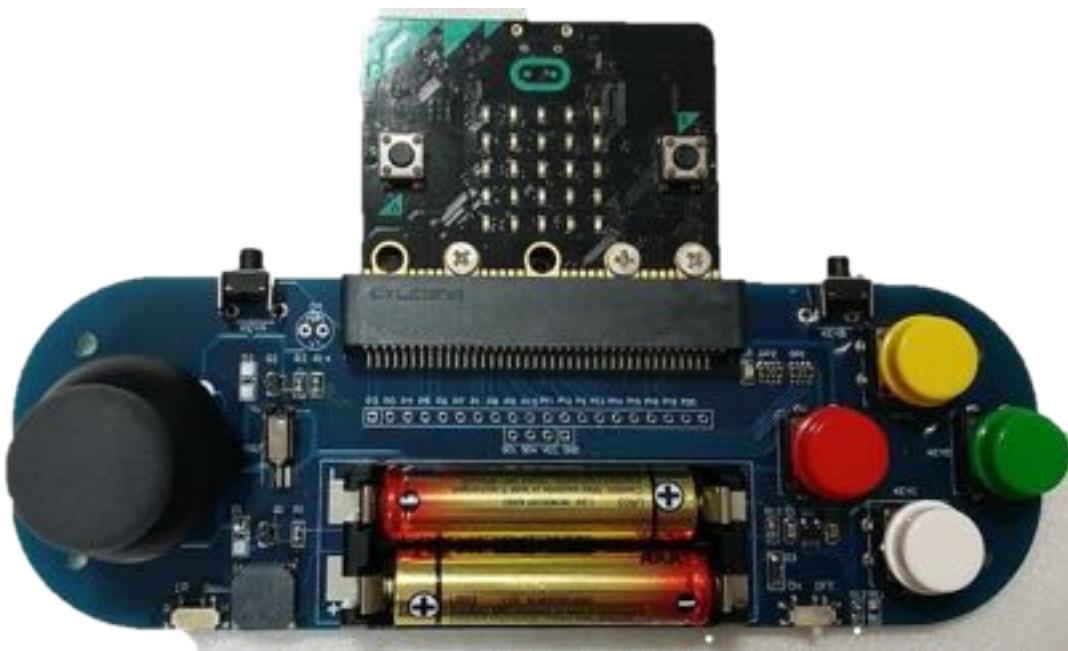
Company: Kaise Electronic

KAISE

URL: kaise.com.tw

Connection Type: Screws/Bolts

Joystick Extension Board



KSB045 *micro:bit* Joystick Extension Board

- micro:bit socket for direct insertion
- 1 rocker, two analog output, can accurately position the joystick, one digital output, can be used for button control
- 4 color buttons
- 2 side buttons, corresponding to the A/B button on the micro:bit
- Buzzer, can be used to play background music or game sound effects
- Vibration motor, more sense of presence when playing games
- Infrared transmitter, can be used as a remote control

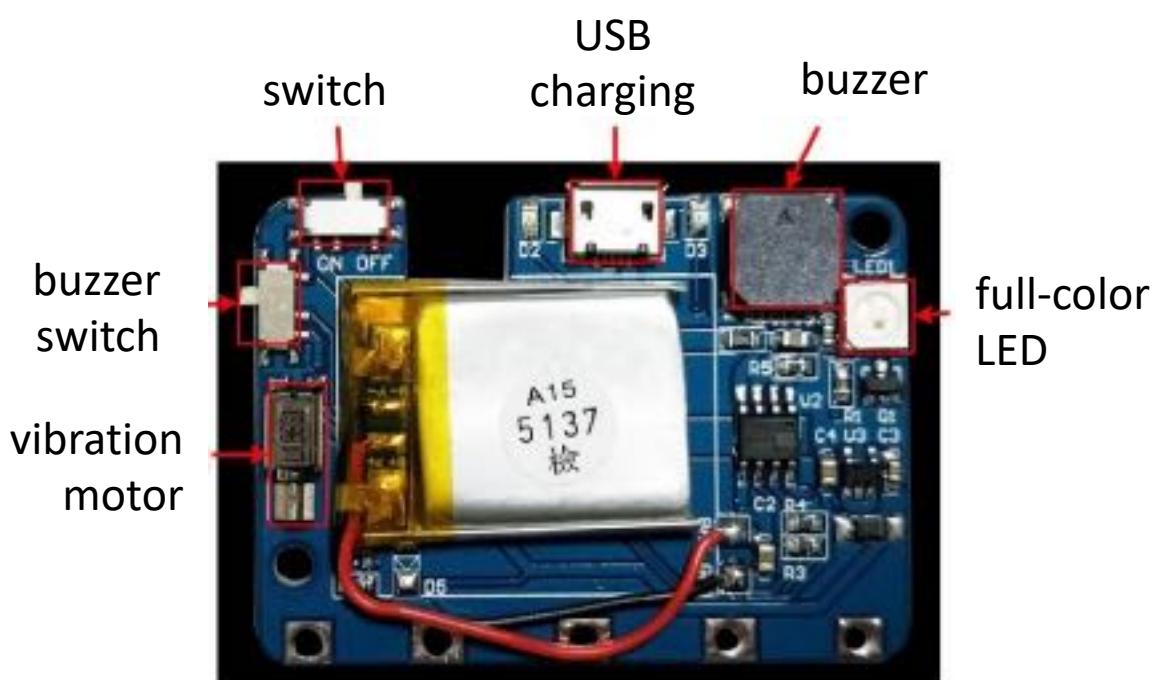
Company: Kaise Electronic

KAISE

URL: kaise.com.tw

Connection Type: Uses whole Edge Connector

Lithium Battery Board



KSB046 *micro:bit* Lithium Battery Board

- Buzzer
- Vibration motor
- Full-color LED
- Switch
- Buzzer switch
- Built-in 140mAh lithium battery
- micro USB charging

Company: Kaise Electronic

KAISE

URL: kaise.com.tw

Connection Type: Screws/Bolts

4WD Motor Servo Board



KSB048 *micro:bit* 4WD Motor Servo Board

- 2-way DC motor / 1 way 28BYJ stepper motor and 12-way servo gear,
- Or 4-way DC motor/2-way 28BYJ stepper motor and 8-way servo gear
- 9-channel IO (P0~P2 P8 P12~P16) 3PIN (GND 3V IO) pin header
- 5V GND pin header
- Infrared receiving element
- 2 full-color LEDs
- Buzzer
- Ultrasonic socket
- IIC pin socket
- 14500 lithium battery holder
- Lithium battery charge and discharge circuit
- Battery protection against reverse, short circuit protection circuit

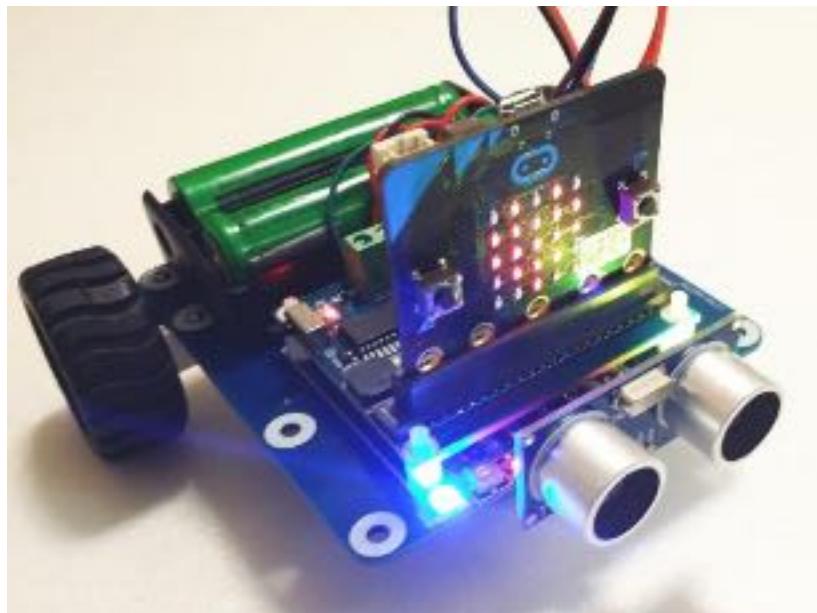
Company: Kaise Electronic

KAISE

URL: kaise.com.tw

Connection Type: Uses whole Edge Connector

Metal Motor Car Kit



KSR025 micro:bit N20 Metal Motor Car Kit

- KSB037 Motor Expansion Board
- KSB042 PCB car bottom plate (including tracking circuit)
- HC-SR04 5V Ultrasonic Module
- N20 1:50 motor + wheel + accessory kit
- Bull's eye wheel
- 18650 2-cell battery box
- M3 plastic column M3 plastic screw, and other related screw accessories package
- 10P double-headed female DuPont line

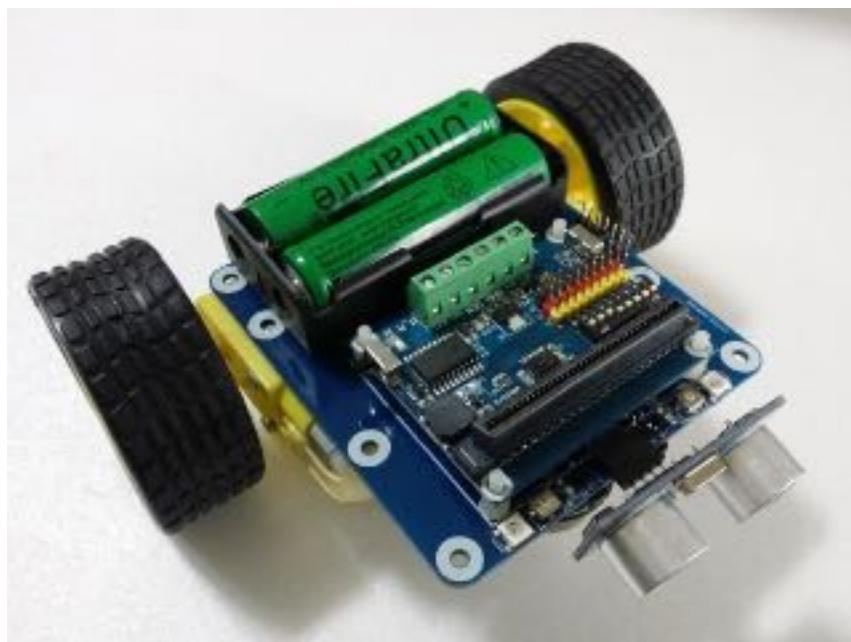
Company: Kaise Electronic

KAISE

URL: kaise.com.tw

Connection Type: Uses whole Edge Connector

Plastic Motor Car Kit



KSR026 *micro:bit Plastic Motor Car Kit*

- KSB037 Motor Expansion Board
- KSB042 PCB car bottom plate (including tracking circuit)
- HC-SR04 5V Ultrasonic Module
- Yellow plastic motor + wheel + accessory kit
- Bull's eye wheel
- 18650 2-cell battery box
- M3 plastic column M3 plastic screw, and other related screw accessories package
- 10P double-headed female DuPont line

Company: Kaise Electronic

KAISE

URL: kaise.com.tw

Connection Type: Uses whole Edge Connector

Robot Car Kit



Version A



Version B



Version C

KSR030 micro:bit Robot Car Kit

- KSR030 PCB controller
- HC-SR04 Ultrasonic ranging module
- KSRobot dedicated infrared remote control
- Version A & B: 2x N20 metal motors and wheels
- Version C: 4x N20 metal motors and Mecanum wheels

Company: Kaise Electronic

KAISE

URL: kaise.com.tw

Connection Type: Uses whole Edge Connector

:MOVE Mini Buggy Kit



:MOVE Mini Buggy Kit for micro:bit

The Kitronik :MOVE Mini Buggy Kit for the micro:bit provides a fun introduction to robotics. The :MOVE Mini is a 2 wheeled robot that is suitable for autonomous operation, remote control projects via a Bluetooth application or being controlled using a second micro:bit as a controller via the micro:bits radio functionality. The Kitronik :MOVE Mini is powered by two continuous rotation servo motors. The speed of these servos can be controlled by simply altering the PWM (Pulse Width Modulation) signal to the servo, which is easy to do using the Servo blocks in the Microsoft MakeCode Block editor. We have also produced Kitronik custom blocks for the Servo:Lite to make the task of coding as quick and painless as possible. The buggy also has 5 x RGB individually addressable ZIP LEDs (NeoPixel compatible), which can be used as indicators, reverse lights etc...

Company: Kitronik Ltd



URL: www.kitronik.co.uk

Connection Type: Screws/Bolts

Bulldozer Add-On For The :MOVE MINI



Bulldozer Add-On For The :MOVE MINI for the BBC micro:bit

With this Bulldozer add-on for :MOVE mini for the BBC micro:bit, everyone's favourite little programmable robot buggy just got much better. Robots often do more than just :MOVE from A to B, and with this add-on so can :MOVE mini.

Previously on :MOVE mini, we drew shapes, controlled it via Bluetooth, controlled it with a second micro:bit, and we also coded a variety of light shows. Now, it can totally lift and carry stuff too!

This self assembly bulldozer add-on kit is made from the same materials as :MOVE mini, designed in keeping with the :MOVE mini aesthetic, and also comes with the servo required to move the bulldozer add-on up and down.

There is a very simple Servo:Lite board hack that enables the control of the third servo, you can find out how here. Once the kit is fully assembled, the bulldozer arm can be coded with the Microsoft MakeCode Editor.

Note: In order to use this accessory you must enable the third servo functionality to be able to connect the third servo to the Servo:Lite board, some soldering is required in order to do this. The header pins required for this are supplied with this kit. Also, enabling the third servo disables the onboard ZIP LEDs. If you undo the third servo hack and return the board to its original state, the onboard ZIP LEDs will be re-enabled. We have produced a short guide showing how to enable the third servo and how to revert this change, read it [here](#).

Company: Kitronik Ltd



URL: <https://www.kitronik.co.uk/5624-bd-bulldozer-add-on-for-the-move-mini.html>

Connection Type: Screws/Bolts

Tipper Trailer Add-On For The :MOVE MINI



Tipper Trailer Add-On for the BBC micro:bit

With this Tipper Truck add-on for :MOVE mini for the BBC micro:bit, everyone's favourite little programmable robot buggy just got much better. Robots often do more than just :MOVE from A to B, and with this add-on so can :MOVE mini.

Previously on :MOVE mini, we drew shapes, controlled it via Bluetooth, controlled it with a second micro:bit, and we also coded a variety of light shows. Now, it can totally carry and dump stuff too!

This self assembly Tipper Truck add-on kit is made from the same materials as :MOVE mini, designed in keeping with the :MOVE mini aesthetic, and also comes with the servo required to move the Tipper Truck trailer up and down.

There is a very simple Servo:Lite board hack that enables the control of the third servo, you can find out how here. Once the kit is fully assembled, the Tipper Truck can be coded with the Microsoft MakeCode Editor.

Note: In order to use this accessory you must enable the third servo functionality to be able to connect the third servo to the Servo:Lite board, some soldering is required in order to do this. The header pins required for this are supplied with this kit. Also, enabling the third servo disables the onboard ZIP LEDs. If you undo the third servo hack and return the board to its original state, the onboard ZIP LEDs will be re-enabled. We have produced a short guide showing how to enable the third servo and how to revert this change, read it [here](#).

Note:

This kit requires mechanical assembly.

This kit requires some soldering.

Company: Kitronik Ltd



URL: <https://www.kitronik.co.uk/5624-tt-tipper-trailer-add-on-for-the-move-mini.html>

Connection Type: Screws/Bolts

Bumper Add-On The :MOVE MINI



Bumper Add-On The :MOVE MINI for the BBC micro:bit

With this Bumper add-on for :MOVE mini for the BBC micro:bit, everyone's favourite little programmable robot buggy just got much better. If you were looking for an add-on that allows for competitive games, then this is the add-on for you.

Previously on :MOVE mini, we drew shapes, controlled it via Bluetooth, controlled it with a second micro:bit, and we also coded a variety of light shows. Now, it can totally be used to play ball games too!

This self assembly Bumper add-on kit is made from the same materials as :MOVE mini and has been designed in keeping with the :MOVE mini aesthetic.

Once the add-on has been attached to :MOVE mini, the buggy can now easily be used for competitive games involving a ball or a puck, football and hockey spring to mind.

Note:

This kit requires mechanical assembly.

Features:

This attachment can be fitted quickly and easily.

:MOVE mini will be able to move balls and pucks.

Allows for competitive team games such as football and hockey.

Company: Kitronik Ltd



URL: <https://www.kitronik.co.uk/5624-bm-bumper-add-on-for-the-move-mini.html>

Connection Type: Screws/Bolts

Line Following Buggy



Line Following Buggy for the micro:bit

The Line Following Buggy with :MOVE line following board for the micro:bit is the newest version of our very popular line following buggy. It offers a significant upgrade in the form of our new :MOVE line following board. Not only does it provide far superior line following it also makes the kit much easier to assemble, making it a suitable activity for younger children. The line following board is supplied pre-assembled, so no soldering of components is required. The only soldering required for assembly is to attach the wires to the two motors. The board design is such that the buggy can either follow a dark line on a light background or a light line on a dark background. For best results, ensure there is approx. 5mm clearance between the bottom of the board and the driving surface.

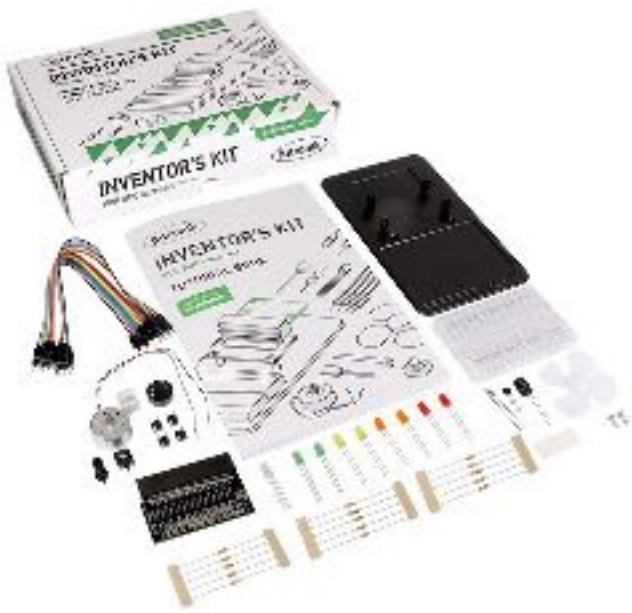
Company: Kitronik Ltd



URL: www.kitronik.co.uk

Connection Type: Edge connector

Kitronik Inventor's Kit



Kitronik Inventor's Kit for the micro:bit

Please Note: BBC micro:bit is NOT included. You can buy the Kitronik Inventor's Kit with the BBC micro:bit already included here.

The Kitronik Inventor's Kit for the BBC micro:bit is a great way to get started with programming and hardware interaction with the BBC micro:bit. This Inventor's Kit contains everything you need to complete 10 experiments including using LEDs, motors, LDRs and capacitors.

To get you off to a flying start, we have included an easy to follow tutorial book which guides you through everything you will need to know about programming the BBC micro:bit. You don't need any experience with programming as the tutorial book will guide you every step of the way. You'll be programming and creating circuits in no time!

The Kitronik Inventor's Kit for the BBC micro:bit provides a fantastic way of learning how to construct and control electronic circuits. The BBC micro:bit has a selection of pins that are located on the bottom edge of its PCB (see datasheet below for details). By using our specially designed Edge Connector Board for the BBC micro:bit in conjunction with the breadboard, it is easy to use these pins to connect additional components to the BBC micro:bit.

Company: Kitronik Ltd



URL: <https://www.kitronik.co.uk/>

Connection Type: Edge connector

ZIP LEDs Add-On Pack for Kitronik Inventors Kit for micro:bit



ZIP LEDs Add-On Pack for Kitronik Inventors Kit for the BBC micro:bit

This add-on pack for the Kitronik Inventors Kit for the BBC micro:bit provides the perfect way to learn about the wonderful world of ZIP LEDs. These LEDs are simple to control and can be used to produce a whole range of fantastic colours.

Most consumer electronics heavily rely on LEDs, as LEDs are a great way of providing instant visual feedback for the user. With this add-on pack you will learn how to write code to take control of ZIP LEDs and also learn how to make ZIP LEDs respond to input from components such as potentiometers and sensors. There are ten experiments, 9 in the booklet and one online, that will help you develop the skills needed to add visual feedback to your projects.

ZIP LEDs are individually addressable RGB LEDs. The name is a nod to the ZIP postal codes used in the US. Each LED can be controlled independently and all LEDs are connected using the same three wire bus. Each LED can produce a full spectrum of colours, independently of other LEDs on the same bus.

ZIP LEDs are based on the WS2812B part and are often referred to as NeoPixels (which is an Adafruit trade mark) and are compatible with Adafruit NeoPixel and other WS2812B driver code. They can be coded for the micro:bit in both MakeCode Blocks and MicroPython.

Company: Kitronik Ltd



URL: <https://www.kitronik.co.uk/5603-zip-zip-leds-add-on-pack-for-kitronik-inventors-kit-for-microbit.html>

Connection Type: Screws/Bolts

Noise Pack for Kitronik Inventor's Kit for the BBC micro:bit



Noise Pack for Kitronik Inventor's Kit for the BBC micro:bit

Learn how to bend sound to your will with the Noise Pack add-on for the Kitronik Inventors Kit for the BBC micro:bit. The pack, in conjunction with the Inventors kit and a micro:bit, contains all you need to build the 5 exciting experiments contained within.

You will learn how to build and code musical instruments, amplifiers, and EQs, including High and Low Pass Filters (HPF/LPF). Who needs expensive Pultecs or Console Channel Strips when you've got some components, a micro:bit, and some know how!

The pack brings together electronics and code in the most noblest of causes, making noise! We're going to make a noise and then we're going to amplify it!

Features:

A fun and exciting add-on pack for the Kitronik Inventors Kit for the micro:bit.

Learn how to manipulate sound, build instruments, amplify your sounds, and how to shape your sounds with Filtering and EQ.

Learn how to build and code the following 5 experiments;

Varying The Tone With A Piezo Buzzer.

Building A Mono Amplifier.

Touch Control.

The Digital Trumpet.

Equalise Your Sound.

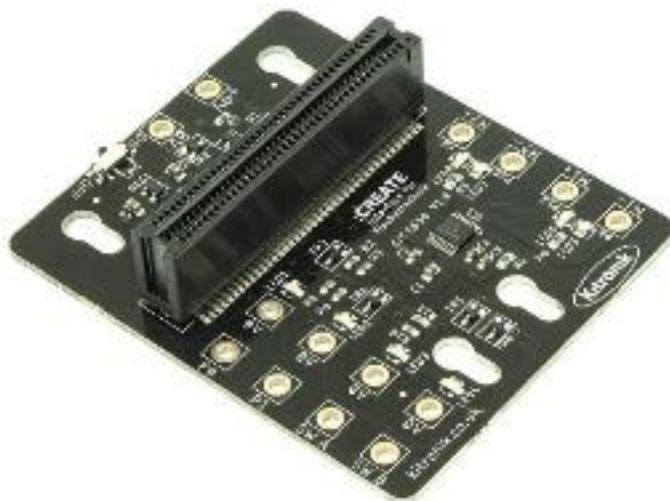
Company: Kitronik Ltd



URL: <https://www.kitronik.co.uk/5632-klip-halo-for-the-bbc-microbit.html>

Connection Type: Edge connector

Interface board for fischertechnik



Interface board for fischertechnik

Bridge the gap between Fischertechnik STEM kits and the BBC micro:bit with the Interface board for micro:bit and Fischertchnik. This board provides an alternative method for control motors and components in the Fischertechnik range.

Designed to run from a 9V PP3 battery (as used in Fischertechnik kits) the PCB produces a regulated 3V supply to power the BBC micro:bit. The board also includes a power switch to turn on and off the supply

Company: Kitronik Ltd



URL: www.kitronik.co.uk

Connection Type: Uses whole Edge connector

Breadboard breakout



Breadboard breakout

The Breadboard breakout for the BBC micro:bit allows the user to plug a BBC micro:bit into a standard 2.54mm pitch breadboard. Two 11 way pin headers are used to make connections into the breadboard.

The micro:bit slots into the edge connector on the top side of the PCB. No extra tools are required for installation. The front of the BBC micro:bit (the side with the LEDs) should be inserted facing the same side as the 3V pin.

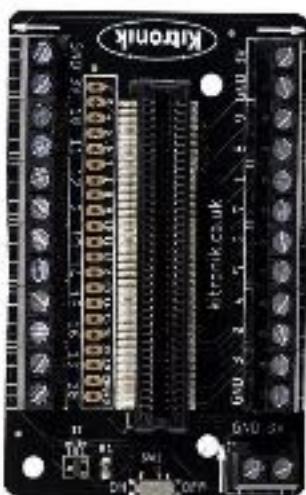
Company: Kitronik Ltd



URL: www.kitronik.co.uk

Connection Type: Uses whole Edge connector

Terminal Block Breakout



Terminal Block Breakout

The Terminal Breakout board for the BBC micro:bit does exactly what it says on the tin. It breaks out all of the signal and power pins on the micro:bit to user friendly terminal blocks. No more untangling M/M or M/F jumper cables from the hastily tidied collection stashed in the corner of your drawer. Just cut a length of wire from one of your more tidy spools, strip off a bit of shielding and screw it into place in the appropriate terminal block. And, if you need to move your project for any reason, having the wires screwed in place means that you can do it without having to deal with the jumper connections that didn't survive the move. Build your circuit only once!

Company: Kitronik Ltd



URL: www.kitronik.co.uk

Connection Type: Uses whole Edge connector

Prong Soil Moisture Sensor



Prong Soil Moisture Sensor

The Prong soil moisture sensor for BBC micro:bit is a sensor board that can be directly mounted to a BBC micro:bit to monitor the moisture present in soil. The two conductive tines are placed into the soil. Any water or moisture in the soil will conduct to give an analogue voltage that can be read by the BBC micro:bit.

Prong is powered from the 3V supply of the BBC micro:bit. Use either the USB or JST connector on the BBC micro:bit to power the circuit. Prong and the BBC micro:bit can also be powered from the Mi:Power board to create a compact stand alone unit.

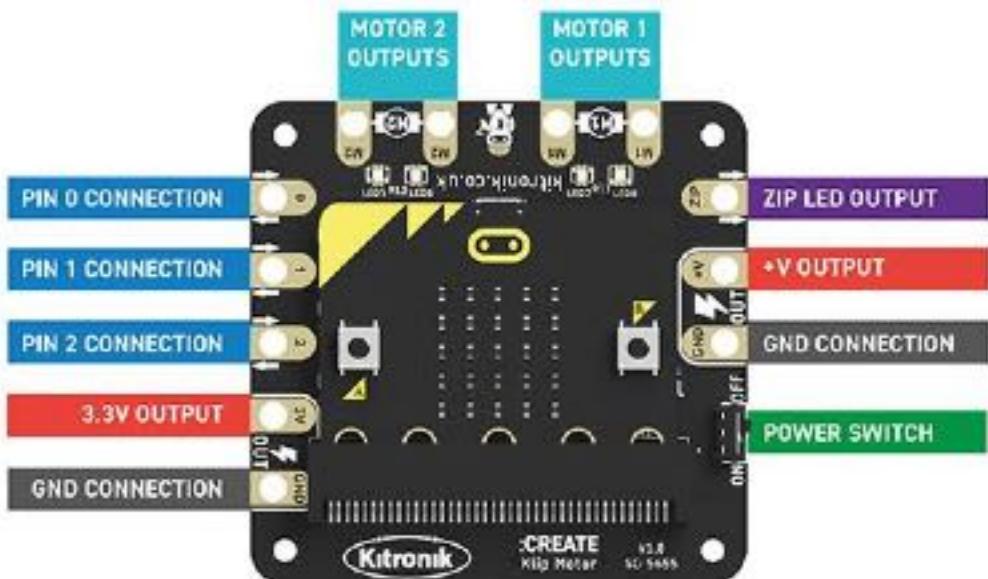
Company: Kitronik Ltd



URL: www.kitronik.co.uk

Connection Type: Screws/Bolts

Klip Motor Driver



Klip Motor Driver

The Klip Motor Driver for the BBC micro:bit does much more than just drive motors. It also breaks out pins 0, 1, 2, 3V and GDN (just like the main pads on the BBC micro:bit itself), and there's a ZIP LED output as well, along with the battery voltage and another GND connection. All of these pads are designed specifically for use with crocodile clips and banana plugs. That means no soldering or fiddling with connection blocks. Also, the pads have been designed and spaced to make it difficult to short two together with crocodile clips. This makes it ideal for use with younger children who can build buggies with little more than a couple of motors, a chassis, some elastic bands and the clip motor driver.

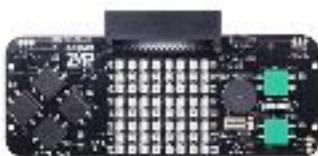
Company: Kitronik Ltd



URL: www.kitronik.co.uk

Connection Type: Uses whole Edge connector

:GAME ZIP 64



:GAME ZIP 64 for the micro:bit

The Kitronik :GAME ZIP 64 is the ultimate retro gaming accessory for the micro:bit. It has been designed to be an all in one hand held gaming platform, which also includes a built in, 64 (8x8) individually addressable full colour ZIP LED, screen. It features on-board sound, 4 x directional buttons, 2 fire buttons, haptic feedback, and breakout points so shoulder buttons or I2C devices can be added. All of these features are fully programmable. We have also included breakout points to allow for the use of larger LED screens. All of micro:bits features are still available when plugged in to the :GAME ZIP 64, so your games can still make use of the LED matrix, accelerometer etc. Power is provided via the built in 3 x AA battery cages which have been ergonomically placed to act as hand grips which makes the :GAME ZIP 64 comfortable to hold and play.

Company: Kitronik Ltd



URL: www.kitronik.co.uk

Connection Type: Edge connector

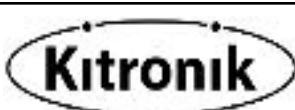
:GAME Controller



:GAME Controller for micro:bit

The Kitronik :GAME Controller for the micro:bit is a retro gaming accessory for the micro:bit. It is a programmable gamepad-style controller enabling a better gaming experience on the micro:bit itself, or the ability to control other devices over micro:bit radio. The :GAME Controller is similar in design and features to the :GAME ZIP 64, only without the ZIP LED screen. This offers great value if the micro:bits own LED matrix is sufficient for the game or when it will be used to control other devices such as robots and buggies. It will also be much lighter on power consumption than its larger/older sibling. It features on-board sound, 4 x directional buttons, 2 fire buttons, haptic feedback, and breakout points so shoulder buttons can be added. All of these features are fully programmable. The board is powered by two AA batteries, which also power the attached micro:bit. The micro:bit connects to the board via the Edge Connector on the :GAME Controller. The micro:bit should be inserted firmly into the edge connector, ensuring that the micro:bit LED display is facing in the same direction as the front of the :GAME Controller.

Company: Kitronik Ltd



URL: www.kitronik.co.uk

Connection Type: Edge connector

:KLEF Piano



:KLEF Piano for the micro:bit

Compose a monophonic micro:bit musical masterpiece with the Kitronik :KLEF Piano for the micro:bit. It features 15 capacitive touch pads, with 13 arranged as a single octave and 2 up down function buttons that can allow you to shift octaves. :KLEF also features; an on-board amplifier circuit for extra 'more', an on-board speaker, and an on-board edge connector that the micro:bit slots into. To use the Piano, the micro:bit should be inserted firmly into the edge connector, either way round. If the Link Header is being used, the BBC micro:bit LED display should be facing the Piano keys. Power is provided via a 5V micro USB connector, and the board then produces a regulated 3.3V supply which is fed into the 3V and GND connections to power the connected BBC micro:bit, removing the need to power the micro:bit separately. This also powers the capacitive touch sensor IC and audio amplifier.

Company: Kitronik Ltd



URL: www.kitronik.co.uk

Connection Type: Edge connector

:VIEW text32 LCD Screen



:VIEW text32 LCD Screen

The Kitronik :VIEW Text32 character LCD, for those times when the LED Matrix and/or external LEDs aren't delivering adequate visual feedback from your micro:bit project. The :VIEW Text32 is a character LCD showing 32 characters (2 lines of 16 characters). The :VIEW Text32 also breaks out the BBC micro:bit pins to edge pads (excluding pin14).

The bottom edge of the board has a replication of the BBC micro:bit's own edge connector, this allows you to plug the :VIEW Text32 into any board that the micro:bit itself can be slotted into. This is great news if your project outputs strings of text and numbers that previously would have slowly scrolled across the LED Matrix.

Company: Kitronik Ltd



URL: www.kitronik.co.uk

Connection Type: Uses whole Edge connector

ZIP Tile



ZIP Tile

The Kitronik ZIP Tile is an 8 x 8 display panel for the BBC micro:bit. It can scroll text, show all the colours of the rainbow (and more) and multiple Tiles can be linked up to make even bigger displays!

It features 64 colour addressable LEDs arranged in an 8 x 8 grid, ZIP LED expansion points on the left, right and top of the board, and the ability to connect a BBC micro:bit with both bolts and croc clips. It also breaks out P1 & P2 to standard 0.1 (2.54mm) footprints. Each of these pins also have the required supply voltage and GND pads.

Company: Kitronik Ltd



URL: www.kitronik.co.uk

Connection Type: Screws/Bolts

ZIP Halo



ZIP Halo for the micro:bit

Add some colour to your next coding project with our new Halo board for the micro:bit. The Halo has 24 ZIP LEDs, which are individually addressable full colour LEDs. This means that each LED can display a huge spectrum of colours, allowing amazing colourful effects to be achieved. The Halo bolts directly onto the micro:bit using five bolts which are secure and robust. The board also has extension connector pads (0.1 pitch) allowing more ZIP LEDs to be connected. The P1 and P2 micro:bit pins are also broken out to 0.1" pads along with power and GND. This allows for additional connections to low power components such as sensors and switches.

Company: Kitronik Ltd



URL: www.kitronik.co.uk

Connection Type: Screws/Bolts

ZIP Halo HD



ZIP Halo HD

The Kitronik Halo HD board for the BBC micro:bit incorporates 60 individually addressable full colour ZIP LEDs. It also breaks out P1 and P2 to a standard 0.1" footprint, it features a MEMS microphone for detection of sound, and a piezo buzzer to play sound. If that weren't enough, it also features an onboard real time clock (RTC) controlled by I2C lines from the micro:bit. The board also has two M3 mounting holes. We think you'll agree, the board is loaded with useful features.

Company: Kitronik Ltd



URL: www.kitronik.co.uk

Connection Type: Uses whole Edge Connector

Klip Halo for the BBC micro:bit



Klip Halo for the BBC micro:bit

The Klip Halo for the BBC micro:bit breaks out all of the pins from the micro:bit to pads spaced around the edge of the Klip Halo. The pads have been carefully designed and spaced so that they are ideal for use with E-Textiles projects and also for projects that require the use of Crocodile Leads.

The Klip Halo bolts directly onto the BBC micro:bit using five supplied screws which are secure and robust. The supplied mounting bar is used to fix the micro:bit to Klip Halo and already contains the required nuts as well as additional solder pads (PO, P1, P2, 3V & GND) should you require them.

There are multiple power and ground pads so that the same pads don't have to be used for every part of your project, which is a handy feature if you are using Crocodile clips. Power is supplied to the board and the micro:bit via the rear mounted JST connector.

When a micro:bit is connected to the Klip Halo, power can be supplied in multiple ways. These are via the USB connector on the micro:bit, the JST connector on the micro:bit or Klip Halo, or using the power rings on the Klip Halo. Depending on which option is used effects the maximum and minimum voltage that can be used and the amount of current that can be drawn from the rings on the Klip Halo. For more details and powering safety information, see the power information and safety datasheet for more information.

Supply voltage should be between 1.95V and 3.6V with 3V being the recommended voltage.

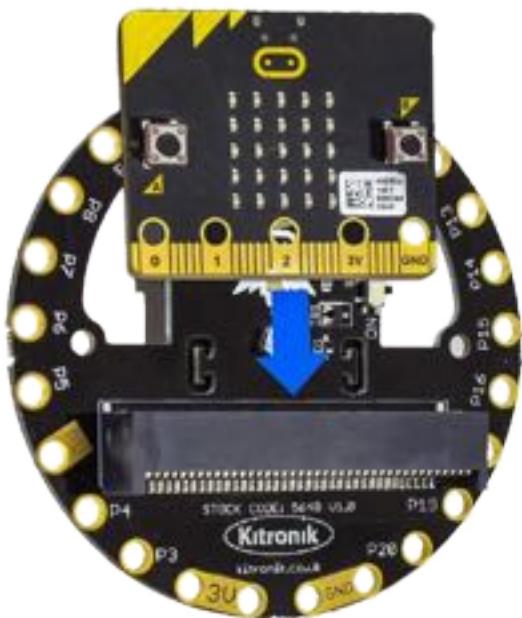
Company: Kitronik Ltd



URL: <https://www.kitronik.co.uk/5632-klip-halo-for-the-bbc-microbit.html>

Connection Type: Screws/Bolts

Klip Halo V2.0



Klip Halo V2.0

The Klip Halo V2.0 board for the BBC micro:bit breaks out each of the 19 GPIO pins from the BBC micro:bit, with easily accessible, clearly marked connection points compatible with both crocodile clips and 4mm banana plugs. The edge connector allows simple assembly by inserting the BBC micro:bit into the Klip Halo V2.0.

Available with JST connector or 2x AA battery holder.

Company: Kitronik Ltd



URL: www.kitronik.co.uk

Connection Type: Uses whole Edge connector

All-in-one Robotics Board



All-in-one Robotics Board for the micro:bit

Take your micro:bit robotics builds to the next level with the Kitronik All-in-one Robotics Board for the micro:bit. The All-in-one Robotics Board enables the BBC micro:bit (connected via a standard card slot connector) to drive 4 motors (or 2 stepper motors) and 8 servos. Coupled with 17 other I/O expansion points, this means the micro:bit can very easily become the core of a whole variety of robotics projects. The Robotics Board features 2 Dual H-Bridge Motor Driver ICs (capable of driving 2 standard motors or 1 stepper motor each) and 8 servo outputs (capable of driving standard and continuous rotation servos), all controlled from the micro:bit using the I2C protocol via a 16-channel driver IC.

Company: Kitronik Ltd



URL: www.kitronik.co.uk

Connection Type: Edge connector

Kitronik 16 Servo Driver Board



Kitronik 16 Servo Driver Board for the micro:bit

Take robotics projects to the next level with the (i2C) Kitronik 16 Servo Driver Board for the micro:bit. Capable of controlling 16 servos which are powered directly from the board's power supply. The board can be powered either through the terminal blocks or the on-board header for radio control receiver packs. The pins from the micro:bit are broken out to pads on the end of the Servo Driver Board. These pads can either be soldered onto directly, or they are the correct spacing for our PCB pin headers.

Company: Kitronik Ltd



URL: www.kitronik.co.uk

Connection Type: Edge connector

Kitronik Motor Driver Board



Kitronik Motor Driver Board for the micro:bit

This board provides a simple way to add motor driving capability to a micro:bit. It allows two motors to be driven with full forward, reverse & stop control. It has terminal blocks to connect four input devices and a regulated 3V supply is fed in to the 80 way connector to power the inserted micro:bit. The pins from the micro:bit are now broken out to pads on the end of the Motor Driver Board. These pads can either be soldered onto directly, or they are the correct spacing for our PCB pin headers.

Company: Kitronik Ltd



URL: www.kitronik.co.uk

Connection Type: Edge connector

Servo:Lite board



Servo:Lite board for micro:bit

The Servo:Lite board for the micro:bit is a simple board that allows you to easily connect and control low power servo motors (servo's must be capable of operating at 3.3V) using the micro:bit. It is connected to the micro:bit using five bolts. Connect two servos in standard configuration and it can drive up to 3 servos if the addressable 'ZIP' LEDs aren't needed. It is powered by 3 AAA batteries and also supplies power to the micro:bit, the board features an On / off switch so when it's not in use the batteries won't drain.

Company: Kitronik Ltd



URL: www.kitronik.co.uk

Connection Type: Crocodile clips

Real Time Clock Board



Real Time Clock Board for the micro:bit

If you haven't yet got the time for your micro:bit projects, the Kitronik RTC Board has come to the rescue! Add Real Time Clock capabilities to the micro:bit with the Kitronik RTC Board. You can use it to create clocks or to add time functionality to your micro:bit projects. The board produces a regulated 3V supply that is fed into the edge connector to power the inserted micro:bit, removing the need to power the micro:bit directly. The coin cell holder allows a CR2032 battery to power the real time clock to continue keeping time whilst there is no mains power being supplied to the board and micro:bit.

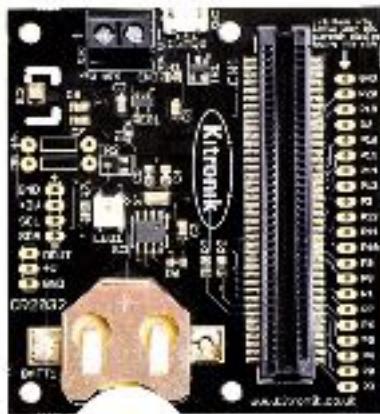
Company: Kitronik Ltd



URL: www.kitronik.co.uk

Connection Type: Edge connector

Klimate Board



Klimate Board for the micro:bit

This RTC & Klimate board is a Real Time Clock (RTC) and environmental sensor (BME280) interface for the micro:bit. The environmental sensor will give the ability to measure temperature, barometric pressure and humidity. The RTC will give the ability to read current time and date. The board produces a regulated 3V supply that is fed into the edge connector to power the inserted micro:bit, removing the need to power the micro:bit directly. The coin cell holder allows a CR2032 battery to power the real time clock to continue keeping time whilst there is no mains power being supplied to the board and micro:bit.

Company: Kitronik Ltd



URL: www.kitronik.co.uk

Connection Type: Edge connector

Audio Cable



Audio Cable for micro:bit

This is the perfect cable choice for those that want to output music or general sound for the micro:bit, to either headphones or speakers. At one end of the cable are the black and red crocodile clips, which connect to the micro:bit's GND and Pin 0 respectively. At the other end of the cable is a 3.5mm TRS (tip, ring sleeve) stereo jack.

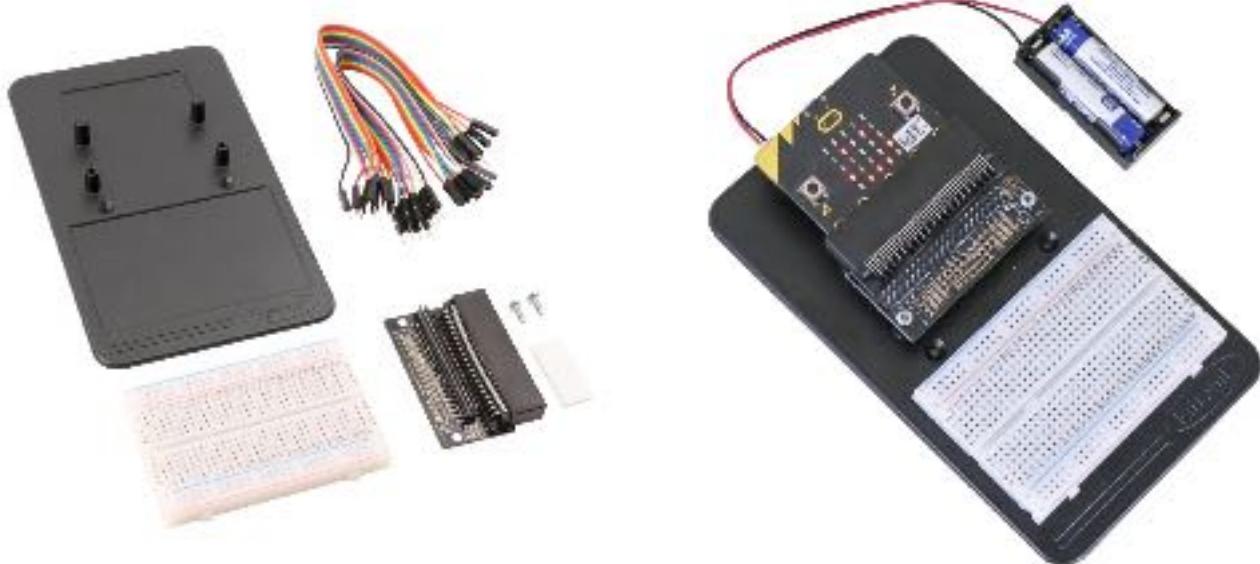
Company: Kitronik Ltd



URL: www.kitronik.co.uk

Connection Type: Crocodile clips

Prototyping System



Prototyping System for the micro:bit

The Kitronik Prototyping System for the micro:bit is a great way to start making circuits and making experiments without the need to solder. This prototyping system uses our specially designed Edge Connector Breakout Board for the micro:bit that gives full access to the pins on the bottom of the micro:bit. The micro:bit pins are broken out to a row of pin headers, the SCL and SDA pins are separated at the edge of the board providing easy identification. The PCB includes a prototyping area with 3V, 0V and unconnected rows that can be soldered to. This allows easy connection of switches, sensors and any pull-up or pull-down resistors etc. as required. This prototyping system is used in conjunction with a Small Prototype Breadboard. This makes it easy to connect additional components using the included jumper wires. No soldering required.

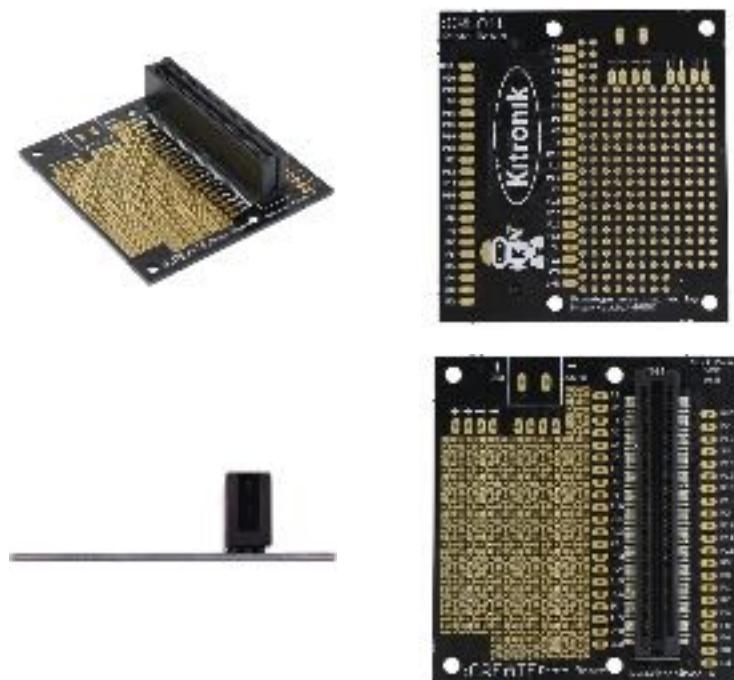
Company: Kitronik Ltd



URL: www.kitronik.co.uk

Connection Type: Edge connector

:CREATE Proto Board



:CREATE Proto Board for micro:bit

Create prototype circuits using surface mount and/or conventional components with the :CREATE Proto Board for the micro:bit. The design features a twin grid system that allows for circuits to be made of a mixture of surface mount and through hole. That the circuits are soldered makes for robust prototyping. No more reattaching jumper cables every time you need to move your project. The through holes are on a 2.54mm (0.1) pitch grid and the surface mount pads on a 1.27mm (0.05) pitch grid. These grid sizes are designed for most common components to fit. The surface mount pads are also designed to be linked with solder so small tracks can be made. Also, all micro:bit pins are broken out and are available to connect to the prototype area. There is an allocated space for the supplied terminal block to be fitted. From this are 4 positive pads and 4 negative pads which are easily linked to the prototype area.

Company: Kitronik Ltd



URL: www.kitronik.co.uk

Connection Type: Edge connector

Edge Connector Breakout Board



Edge Connector Breakout Board for the BBC micro:bit

Looking to do more with your BBC micro:bit? Unlock its potential with this pre-built version of our Edge Connector Breakout Board! This breakout board has been designed to offer an easy way to connect additional circuits and hardware to the pins on the edge of the BBC micro:bit. It provides access to all of the BBC micro:bit processor pins allowing a lot of extra functionality to be added. The datasheet (below) includes a helpful diagram explaining the function of every pin on the BBC micro:bit.

This Edge Connector Breakout Board for the BBC micro:bit gives access to all of the important pins on the bottom edge of the BBC micro:bit. 21 pins are broken out in total; providing additional I/O lines, direct access to buttons A and B, the LED matrix outputs and the I2C bus. Please refer to the datasheet below for more details.

The BBC micro:bit pins are broken out to a row of pin headers. These provide an easy way of connecting circuits using jumper wires. The SCL and SDA pins are separated at the edge of the board (solder pads) providing easy identification. The PCB includes a prototyping area with 3V, 0V and unconnected rows that can be soldered to. This allows the easy connection of switches, sensors and any pull-up or pull-down resistors etc. as required.

If you are looking for inspiration, look no further than these examples using the Edge Connector for the BBC micro:bit:

The breakout board is used in our Collision Detection Buggy that makes use of the extra I/O available.

We've also used this Edge Connector for the BBC micro:bit in our Inventor's Kit for the BBC micro:bit to make connecting up these experiments a breeze.

Company: Kitronik Ltd



URL: <https://www.kitronik.co.uk/>

Connection Type: Edge connector

MI:Sound speaker board



MI:Sound speaker board

The MI:sound board is a speaker board for the BBC micro:bit. It features on-board; speaker, CR2032 battery holder, thumb wheel volume control and an easy access on/off switch. The MI:sound board can either be powered by the CR2032 battery (provided) or via the micro:bit USB or JST connections.

To use the MI:sound speaker board, the BBC micro:bit should be attached using the supplied bolts, spacers and nuts as shown to the right. Only Pin 0, 3V and GND need to be connected. Crocodile clips can also be used.

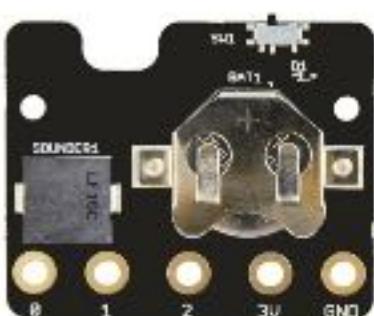
Company: Kitronik Ltd



URL: www.kitronik.co.uk

Connection Type: Screws/Bolts

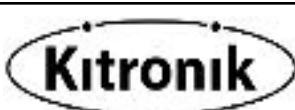
MI:power board



MI:power board for the micro:bit

The MI:power board for the micro:bit brings real portability to your wearable projects. The stylish, lightweight PCB is designed to fit snugly against the BBC micro:bit and features a built in buzzer and 3V coin cell holder. When assembled, the MI:power board is connected directly to the 3V, GND and P0 connections on the micro:bit. The 3V and GND connections provide power to the micro:bit and the built in buzzer is connected to P0, which is the default output pin when using the audio functions in the MakeBlock software.

Company: Kitronik Ltd



URL: www.kitronik.co.uk

Connection Type: Screws/Bolts

MI:power Case for the BBC micro:bit



MI:power Case for the BBC micro:bit

Please Note: BBC micro:bit, and MI:power board are NOT included.

This case has been designed to protect a BBC micro:bit with our MI:power board. The case fully encloses both of the PCBs creating a rugged unit that is ideal for creating portable designs. The clear front allows the BBC micro:bit to be seen inside the case, allowing the on-board LED matrix to be viewed.

This case is easy to assemble using the nylon screws provided.

The MI:pro protector case is available in four different colour options; Clear, Green, Orange and Blue. For each of the options the front and back plates are cut from clear Perspex and the mid layer pieces are cut from Perspex of the selected colour.

Note:

This case requires assembly.

Company: Kitronik Ltd



URL: <https://www.kitronik.co.uk/c5611-mipower-case-for-the-bbc-microbit.html>

Connection Type: Crocodile Clips

MI:pro 'Mountable' Case for the BBC micro:bit



MI:pro 'Mountable' Case for BBC micro:bit

Please Note: BBC micro:bit, 2 x AAA Battery Cage and 2 x AAA Batteries are NOT included. If you also require a BBC micro:bit, you can order one here.

Keep your BBC micro:bit safe by using this mountable version of the MI:pro Protector Case for the BBC micro:bit. This case has been specifically designed with portability and expansion in mind.

This 'Mountable' case features two 'keyhole slot' style wall mounting points attached to the sides of the BBC micro:bit case.

The clear casing allows the BBC micro:bit be seen inside the case, allowing the on-board LED matrix to be viewed. This case is easy to assemble using the nylon screws provided.

Company: Kitronik Ltd



URL: <https://www.kitronik.co.uk/5605-mipro-mountable-case-for-the-bbc-microbit.html>

Connection Type: N/A

MI:pro Protector Case



MI:pro Protector Case for the micro:bit - Clear

Please Note: BBC micro:bit, 2 x AAA Battery Cage and 2 x AAA Batteries are NOT included. The battery cage supplied with the BBC micro:bit does not fit with this product. If you also require a BBC micro:bit, you can order one here.

Available in a choice of four colours, the MI:pro Protector Case not only keeps a BBC micro:bit in perfect condition but also offers a number of other benefits. Keep your BBC micro:bit safe and secure with this compact, portable protective case where the 2xAAA battery pack can be bolted to the back, making a compact and portable unit. Please note: The battery cage supplied with the BBC micro:bit does NOT fit with this product.

It also can be stood neatly on a desk and provide large easy to read labels for the A and B buttons. This case provides full access to the bottom pins on the BBC micro:bit so the Edge Connector Breakout Board for BBC micro:bit can be used.

The MI:pro protector case is available in four different colour options; Clear, Green, Orange and Blue. For each of the options the front and back plates are cut from clear Perspex and the mid layer pieces are cut from Perspex of the selected colour.

Company: Kitronik Ltd



URL: <https://www.kitronik.co.uk/>

Connection Type: Not applicable

E-Textiles Kit



E-Textiles Kit for the micro:bit

This kit is a great way to get started with creating BBC micro:bit controlled E-Textiles projects and designs.

We have selected a number of products from our Electro-Fashion range, including five regular 5mm LEDs, ten of our ultra-slim LEDs, ten crocodile clips and 6 meters of conductive thread. There are enough components for you get started immediately to create our Emoji Bag and Rocket Pencil Case projects with enough extra LEDs and Crocodile clips to also create something of your own design.

Features:

Great savings over buying individual components.

All of the e-textiles parts you need to complete two of our tutorials plus a design of your own.

Enough Electro-Fashion components to get started immediately with E-Textiles.

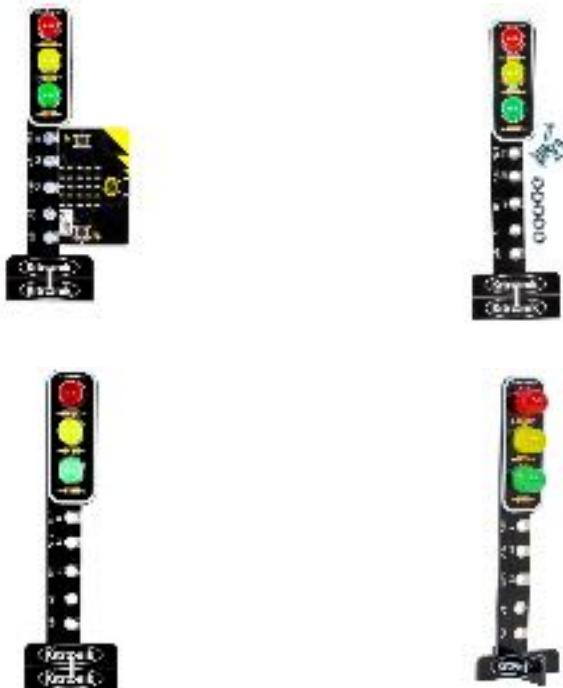
Company: Kitronik Ltd



URL: <https://www.kitronik.co.uk/>

Connection Type: Crocodile clips

STOP:bit - Traffic Light



STOP:bit - Traffic Light for micro:bit

The STOP:bit for the micro:bit is the ultimate upgrade for traffic light/pedestrian crossing projects. Not only does it make coding the project a breeze, the board is supplied pre-assembled so you don't even need to fire up the soldering iron. The Kitronik STOP:bit is a purpose built accessory that can only lead to a more enjoyable project with a nicer looking end result. The STOP:bit is a bolt-on/clip-on board for the micro:bit replicating a traffic light. The PCB has been designed to have the same physical features of a traffic light, with the addition of a micro:bit as the pedestrian crossing control box. The STOP:bit has 3 10mm diameter LEDs. Each of these LEDs is driven from one of the micro:bit IO pins. Power to the LEDs is supplied from the micro:bit connections. STOP:bit is supplied with 4 countersunk screws which gives you the option of bolting the micro:bit directly onto the STOP:bit. Alternatively, crocodile clips can be used between the pads on the STOP:bit and the corresponding pads on the micro:bit.

Company: Kitronik Ltd



URL: www.kitronik.co.uk

Connection Type: Screws/Bolts & Crocodile clips

LAMP:bit - Street Light



LAMP:bit - Street Light for micro:bit

The LAMP:bit features connections which allow the micro:bit to be bolted/clipped directly to it. It has been designed to replicate a streetlight, in form and function. This is a great board for use in transportation projects and has been designed to fit the same aesthetic as the STOP:bit, so that they can be used together in the same projects. The board also features a phototransistor that can be used to react to changes in ambient light levels, thus switching on and off the white LED autonomously. Power is supplied to the board from the micro:bit that is connected to it via the 0V and 3V pins.

Company: Kitronik Ltd



URL: www.kitronik.co.uk

Connection Type: Screws/Bolts & Crocodile clips

ACCESS:bit



ACCESS:bit

The ACCESS:bit is a bolt-on/clip-on board for the BBC micro:bit that simulates an access barrier. It includes a switch for turning the integrated 3xAAA battery supply on and off and also a buzzer for sound. The ACCESS:bit joins the family of transportation/pedestrian crossing micro:bit accessories, that also includes; the STOP:bit and LAMP:bit.

The ACCESS:bit is supplied with a single servo, a barrier, and all of the required fixings. Once the micro:bit has been fitted to the ACCESS:bit its LED matrix is fully visible and therefore can be used to display warning signals, stop/go symbols or as a light sensor for autonomous actions.

Company: Kitronik Ltd



URL: www.kitronik.co.uk

Connection Type: Screws/Bolts

MeArm Robot micro:bit Kit - Blue



MeArm Robot micro:bit Kit - Blue

for micro:bit

The MeArm micro:bit blue version is an easy-to-build robot arm kit that's designed to get children (and adults!) learning about technology, engineering and programming. It's been expressly designed to be easy to build (age 11+) and use.

At its heart is the BBC micro:bit (sold separately), a low cost computer that has been developed to make learning about computing accessible and fun. It can be controlled directly through the on-board joysticks, or you can learn to code by making it move using one of the programming languages supported by the BBC micro:bit.

The big benefit of being integrated with the micro:bit is the availability of coding editors to suit every coding ability level. You can use MakeCode Blocks & Javascript editors, or the MicroPython or MU editors to code the MeArm. A lot of effort has gone into making it simple to start programming your MeArm as soon as you've got it built.

The MeArm micro:bit version has been designed from the ground up to be easy to assemble. Children can build it themselves and we suspect adults may be able to build it unaided too. The only tool you'll need to build it is a hex key, and one is included in the box!

Note:

This kit does not include a micro:bit. The micro:bit is available separately; buy micro:bit.

This kit requires assembly.

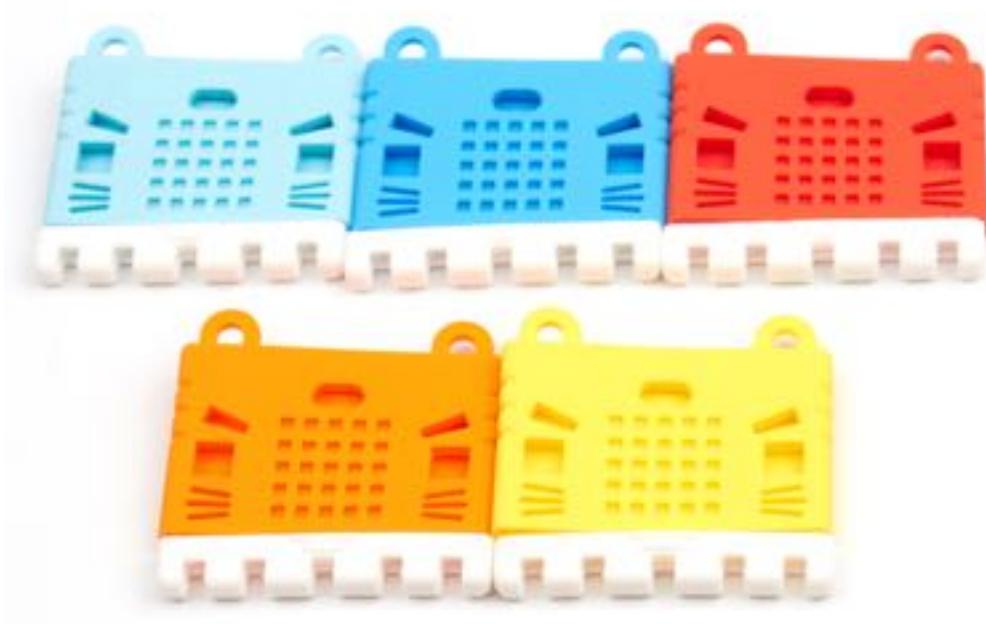
Company: Kitronik Ltd



URL: <https://www.kitronik.co.uk/4505-mearm-robot-microbit-kit-blue.html>

Connection Type: Edge connector

Silicone Kitty Case for micro:bit



Silicone Kitty Case for micro:bit

As you saw it's angry kitty face there with display LED cover and sleeve protect the gold finger edge connect of micro:bit.

With a Kitty Rubber Case, kids could put the micro:bit in the pocket, school bags without worry about the trouble.

There are five color available: Orange, Blue, Red, Yellow and Sky Blue.

Company: KittenBot



URL: kittenbot.cc

Connection Type: N/A

PowerBrick 10-in-1 Robotics Kit



PowerBrick 10-in-1 Robotics Kit for micro:bit

Recently, more educators choose micro:bit as primary school entry-level coding board instead of Arduino, but there's seldom mechanical parts available for robotics projects. And most of schools, educators, students owns both micro:bit and LEGO bricks. So we're wondering what if we design a new mode of electronics parts to connect both micro:bit and LEGO and able to program by Scratch and MakeCode.

Company: KittenBot



URL: kittenbot.cc

Connection Type: Uses whole Edge Connector

Joyfrog



Joyfrog Programmable Interactive Gamepad for micro:bit

Joyfrog is a programmable interactive gamepad that can be programmed with MakeCode Scratch. It's easy to use and can be connected to micro:bit as a gamepad expansion board. It can also be used independently as a programming board through Kittenblock scratch programming software.

Company: Kittenbot



URL: kittenbot.cc

Connection Type: Uses whole Edge Connector

KittenBot IObIT V2.0



KittenBot IObIT V2.0 for micro:bit

This is a low-cost expansion board for micro:bit, which is specifically used for the IO ports of micro:bit. It has taken all the IO resources on the micro:bit, and also has a buzzer on the board. It is connected to the P0 pin through the jumper cap. The P0 pin can be released using a jumper cap. The small size is very suitable for small projects using micro:bit.

Company: KittenBot



URL: kittenbot.cc

Connection Type: Uses whole Edge Connector

Robotbit



Robotbit – robotics expansion board for micro:bit

It has a powerful ability to drive DC motors, stepper motors, servos, and onboard buzzer and RGB pixels and release all valid IO from micro:bit, with support the most common electronics module in the market. It comes with 18650 battery holder, integrated lithium battery boost, charging and protection chip. Support for external power input. Mechanically support for KittenBot robotic chassis and LEGO technical slots.

Company: KittenBot



URL: kittenbot.cc

Connection Type: Uses whole Edge Connector

Game:bit



Game:bit

It has a wealth of input buttons, a two-axis joystick, a vibration motor, and a passive buzzer. Combined with micro:bit, you can have a variety of ways to play, increasing the fun of micro:bit programming!

Company: LabPlus



URL: labplus.cn

Connection Type: Uses whole Edge Connector

Bot:bit



Bot:bit

The bot:bit humanoid robot is a humanoid robot that can be programmed and controlled. It supports graphical programming and Python code programming. It is easy to learn and can expand human space thinking space through programming. The robot has a variety of working modes. One is to install a 4-DOF steering gear as an arm, and the two-way motor is used as a wheel. The two hands can be flexibly operated while moving freely. The second is equipped with a 4-DOF steering gear as a leg to achieve freedom. Walking and avoiding obstacles.

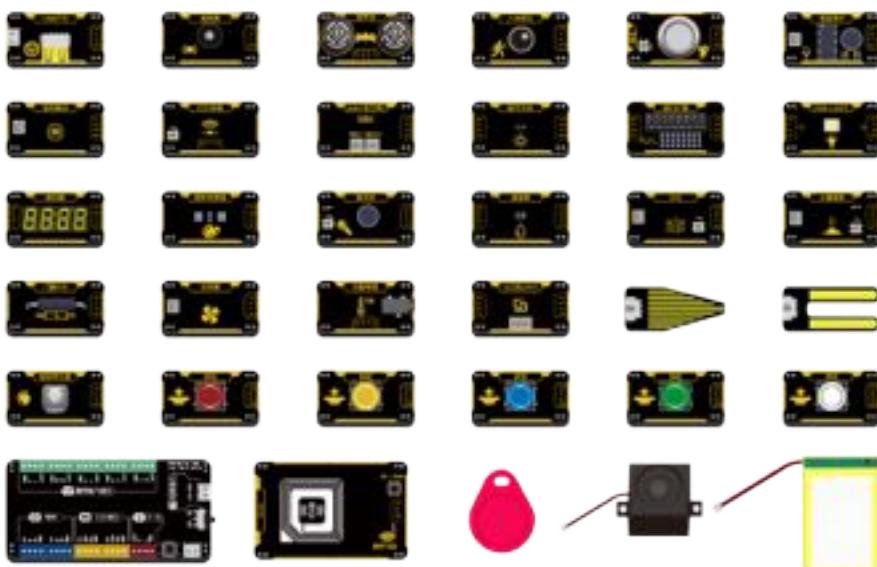
Company: LabPlus



URL: labplus.cn

Connection Type: Uses whole Edge Connector

BlueBit



BlueBit Electronic Modules

The BlueBit Suite is an advanced electronic suite for creative production, supporting graphical programming and Python code programming. This kit includes a master, input sensor module, and output module. At the same time, it supports micro:bit expansion, combined with multi-functional metal structure parts, to help students develop brains to stimulate creativity, and provide students with a platform to freely create their creativity, to meet the needs of students' creative production or competition design and production. The multi-functional metal structural parts are made of high-strength space aluminum alloy materials, which are rich in variety, versatile, flexible in application, and easy to assemble various structural shapes

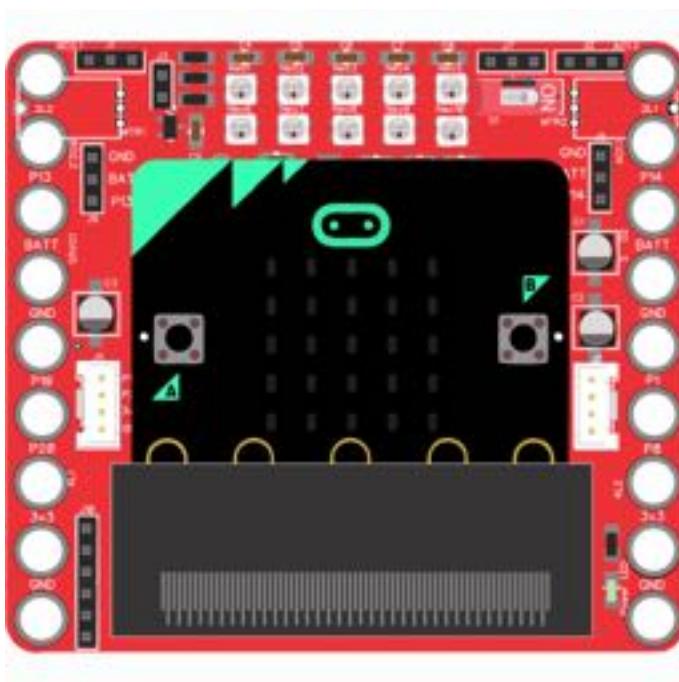
Company: LabPlus



URL: labplus.cn

Connection Type: Uses whole Edge Connector

Bit:booster



Bit:booster

Meet the bit:booster, the only board designed by educators for getting the most out of the micro:bit in the classroom.

The bit:booster is full of features to explore the world of physical computing with the micro:bit without any extra components. Start coding exciting projects out of the box.

The bit:booster can power 4 motors, most sensors, and comes with 10 Neopixels with jumpers to add additional strips or panels. It also has an on board piezo buzzer for generating music.

The board is designed to make building easy. Add inputs and outputs with ease using common connectors as alligator clips, wire, probes, conductive thread, Grove clips, jumpers, and even Lego.

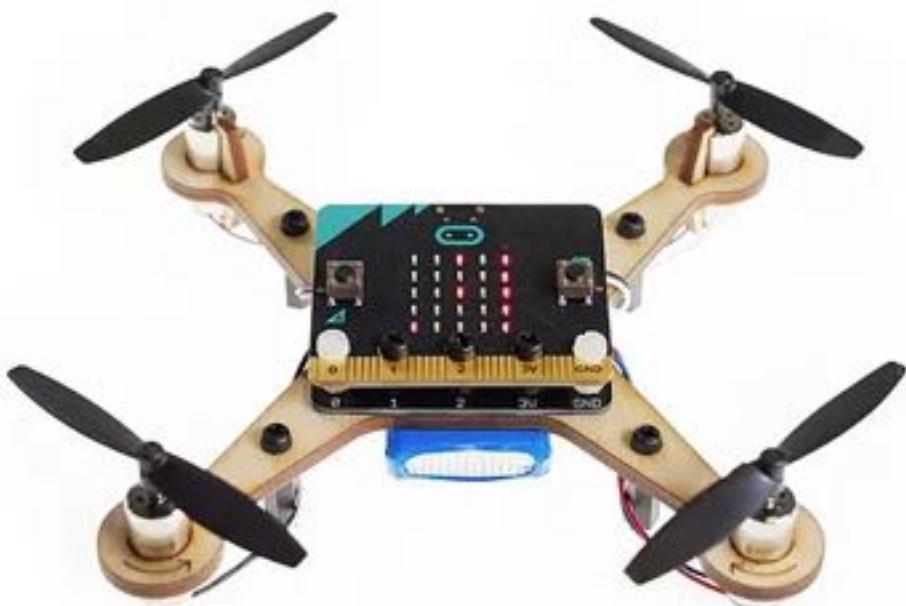
Company: Imagination Supply Co



URL: <http://www.lectrify.it/>

Connection Type: Edge connector

Air:Bit



Air:Bit

Air:Bit combines the micro:bits ease of use with the excitement of a drone. It is a STEM learning kit, which will engage students with a more practical way of learning. It is fully repairable and withstands a lot of crashes. The best of all - it is affordable comparing to other drones.

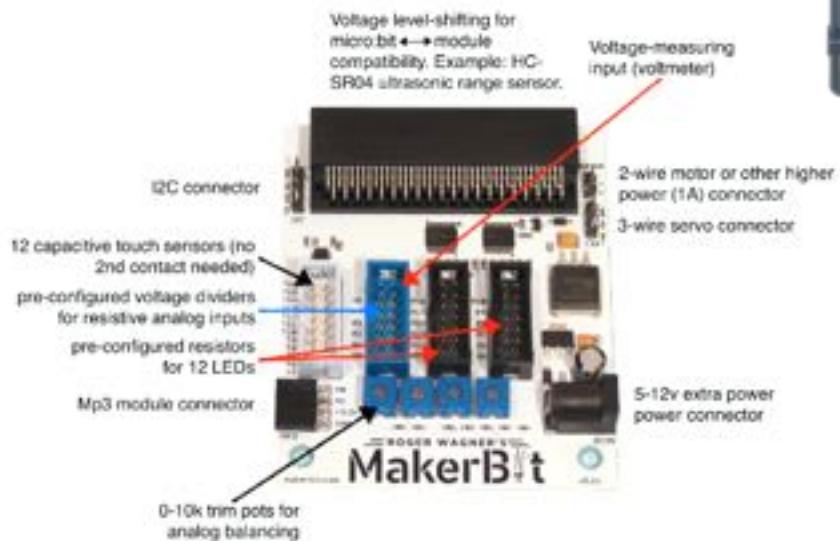
Company: MAKEKIT



URL: makekit.no

Connection Type: Screws/Bolts

MakerBit Starter Kit



MakerBit Starter Kit for micro:bit

Roger Wagner's MakerBit is designed to enable the connection of web-based videos and other digital media to touch sensors located on traditional student models, dioramas and poster-board projects, and to turn on LEDs while the video or media is displayed. The micro:bit runs the software, and the MakerBit provides the physical connections and touch sensing. The MakeCode extension for the MakerBit features support for pin control, mp3 playback, LCD, and IR remote control. For exciting examples, see makerbit.com, and follow @themakerbit on Twitter!

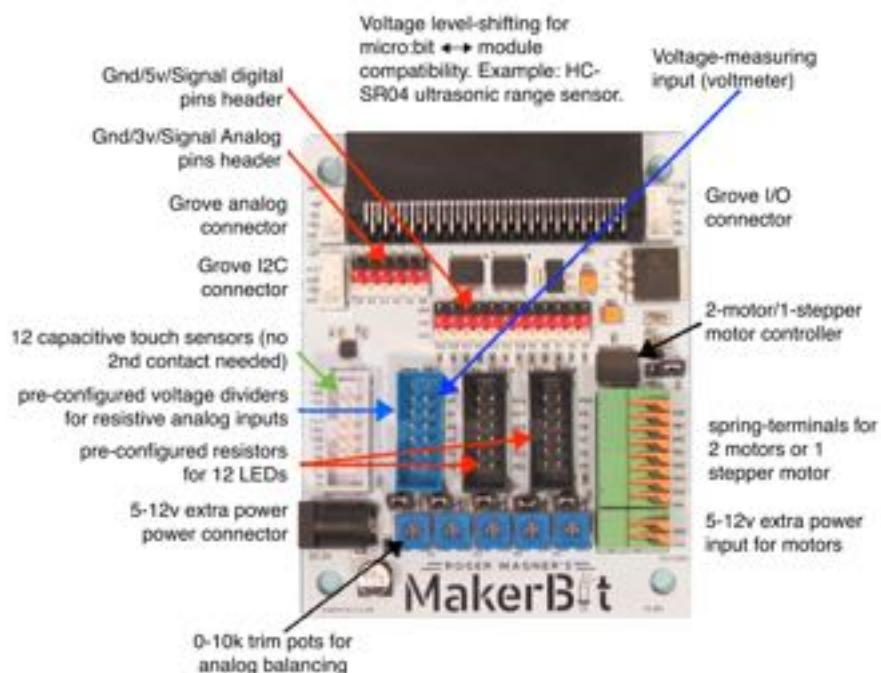
Company: MakerBit



URL: makerbit.com

Connection Type: Edge connector

MakerBit+R



MakerBit+R for micro:bit

Roger Wagner's MakerBit+R is the most versatile micro:bit project platform created by the renowned author, programmer, inventor and creator of HyperStudio, HyperDuino and now, the MakerBit+R. The MakerBit+R has all the connections and cables for virtually any micro:bit project, and accelerates your exploration and innovation like no other! Grove connectors, I2C, touch sensors, double-H-bridge motor controller and more. Onboard voltage shifters accommodate both 3.3v for the micro:bit and 5v for common sensors and actuators, and make robotic vehicles a breeze. The MakeCode extension for the MakerBit features support for pin control, mp3 playback, LCD, IR remote and robotics motor control. For exciting examples, see makerbit.com, and follow @themakerbit on Twitter!

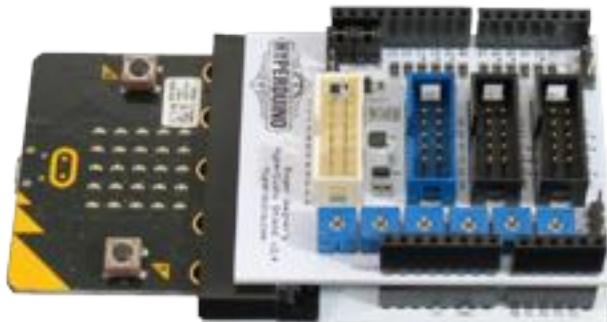
Company: MakerBit



URL: makerbit.com

Connection Type: Edge connector

HyperDuino micro:bit Adapter



HyperDuino micro:bit Adapter for micro:bit

The micro:bit-to-HyperDuino Adapter lets you use the micro:bit as a direct substitute for an Arduino Uno (or Funduino or any Arduino Uno equivalent) in any HyperDuino Interactive Maker Project.

Company: MakerBit



URL: makerbit.com

Connection Type: Edge connector

ZEP Island



ZEP Island Starter Kit

ZEP Island is a STEM learning program based on a scale-model sustainable community of ‘Zero Emissions People’ (“ZEPs”).

ZEP Island is about using STEM to design and build a model ‘zero emissions’ environment. The core challenge is to model sustainable scenarios for supporting life, and the aim of the program is to maximize the number ZEPs you can sustainably support using an A2 (420mm x 594mm) space. The more STEM and design thinking the students apply, the more water, food, energy and shelter they can provide, and the more ZEPs can live on their island.

Company: MicroMaker



URL: <https://micromaker.co.uk/>

Connection Type: Uses whole Edge Connector

Foundation Starter Kit



Foundation Starter Kit

This kit is the starting point of the journey through the MicroMaker program. Once you master this kit then move onto others in the foundation range. Similarly, jump straight into the innovation kit where you can create and innovate with the micro:bit and the vast selection of external sensors and components included.

Company: MicroMaker



URL: <https://micromaker.co.uk/>

Connection Type: Screws/Bolts

Foundation Science Kit



Foundation Science Kit

Using the foundation science kit users can conduct classic science investigations with the micro:bit. To begin with, the code required can be downloaded for each investigation. To take it further, code your own sensors using the micro:bit and create your own science investigations.

Company: MicroMaker



URL: <https://micromaker.co.uk/>

Connection Type: Uses whole Edge Connector

Foundation Foreign Languages Kit



Foundation Foreign Languages Kit

Use digital technology to aid the learning of foreign languages such as French and Spanish.

Improve students engagement and enjoyment in learning vocabulary through quizzes and challenges.

Take it further by designing and coding your very own quiz or challenge using the micro:bit and technology included in this kit.

Company: MicroMaker



URL: <https://micromaker.co.uk/>

Connection Type: Uses whole Edge Connector

Foundation Control Kit



Foundation Control Kit

Control components, sensors and motors with the micro:bit!

Build on your knowledge of micro:bit and develop your skills further by connecting and coding external components.

The curriculum booklet included with this kit gives you the basic knowledge needed to begin controlling external components. Take it further with the online control lessons and have a go at combining inputs and outputs

Company: MicroMaker



URL: <https://micromaker.co.uk/>

Connection Type: Uses whole Edge Connector

Investigation Motion Kit



Investigation Motion Kit

Use digital technology to conduct dynamics and motion investigations in Science.

Meet the requirements of the curriculum and create your own set of light gates to capture velocity and acceleration in an interactive way.

Take this kit further create your own Science investigations by coding the micro:bit and timing gates.

Company: MicroMaker



URL: <https://micromaker.co.uk/>

Connection Type: Uses whole Edge Connector

Innovation Kit



Innovation Kit

Explore the innovator inside of you. Let your creativity run wild!

The MicroMaker innovation kit takes creativity to a whole new level! The kit includes a vast array of components and sensors that can be connected and controlled by the micro:bit using the MicroMaker innovation board.

The curriculum booklet included with this kit gives an introduction to the micro:bit and overviews the components and sensors included.

Company: MicroMaker



URL: <https://micromaker.co.uk/>

Connection Type: Uses whole Edge Connector

Click adaptor



Click adaptor for BBC micro:bit

The **micro:bit Click adaptor** is powered from the micro:bit itself. An 80pin edge connector allows easy installation to the micro:bit board. Due to the micro:bit symmetrical design, there is no wrong way of connecting. It can be plugged into the connector both ways, keeping it simple.

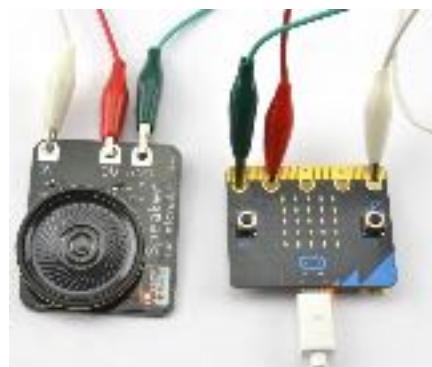
Company: MicroEleckronika



URL: <https://www.mikroe.com/microbit-click-adapter>

Connection Type: Whole edge connector

Speaker



Speaker for micro:bit

The MonkMakes Speaker for micro:bit is a neat little amplified speaker that connects to your micro:bit using alligator clips. Despite its small size, this speaker is pretty loud.

Features

Amplified output

LED 'power on' indicator

Reverse polarity protection

Company: MonkMakes Ltd



URL: <https://monkmakes.com>

Connection Type: Crocodile clips

Relay



Relay for micro:bit

The MonkMakes Relay for micro:bit is a solidstate (no moving parts) relay that allows an output of a micro:bit to turn things on and off. This relay can be used to switch low voltage devices such as light bulbs, a motor, a small heating element or even a string of 12V LED lighting.

Company: MonkMakes Ltd



URL: <https://monkmakes.com>

Connection Type: Crocodile clips

Sensor



Sensor for micro:bit

The MonkMakes Sensor Board for micro:bit can be used to measure sound levels, temperature and light levels.

Features

3V and GND connections can be made from either side and allow you to power a second board such as the MonkMakes Relay Board or MonkMakes Speaker.

LED 'power on' indicator

Reverse polarity protection

All three sensors are analog and can be connected to pins P0, P1 and P2 using alligator clips.

Company: MonkMakes Ltd



URL: <https://monkmakes.com>

Connection Type: Crocodile clips

RGB LED



RGB LED for micro:bit

The MonkMakes RGB LED is an LED that can be used to make any colour. Handily mounted on a PCB it connects to the micro:bit using alligator clips.

Company: MonkMakes Ltd



URL: <https://monkmakes.com>

Connection Type: Crocodile clips

7-Segment



7-Segment for micro:bit

The 7-Segment for micro:bit is a four digit 7 segment display for micro:bit. You can use it to display numbers, but it can also display letters and other characters, albeit with the limits imposed by the 7 segments of each digit. Powered directly from micro:bit pins it can be used to send messages to the display using the micro:bit's Serial blocks.

Company: MonkMakes Ltd



URL: <https://monkmakes.com>

Connection Type: Crocodile clips

CO2 Sensor



CO2 Sensor for micro:bit

This board, designed for use with the Lets Talk Science Living Space Project, provides a CO₂, temperature and Relative Humidity measurements to a BBC micro:bit.

Company: MonkMakes Ltd



URL: <https://monkmakes.com>

Connection Type: Crocodile clips

Power



Power for micro:bit

The MonkMakes Power for micro:bit opens up lots of ways of powering your micro:bit. The board has a standard DC barrel jack that accepts between 4.5 and 12V and provides a regulated 3V output to the micro:bit via its JST battery connector.

Company: MonkMakes Ltd



URL: <https://monkmakes.com>

Connection Type: n/a

Charger



Charger for micro:bit

A rechargeable battery for your micro:bit that automatically charges while you are connected by USB. Make your micro:bits mobile without having to continually hunt for AAA batteries.

Company: MonkMakes Ltd



URL: <https://monkmakes.com>

Connection Type: n/a

Servo



Servo for micro:bit

Servo for micro:bit provides a really easy way to attach up to three servomotors to a BBC micro:bit. The board requires a power supply or battery pack to provide 5 or 6V to the servomotors. It includes a voltage regulator that will supply 3V back to the micro:bit.

Company: MonkMakes Ltd



URL: <https://monkmakes.com>

Connection Type: Crocodile clips

Servo Kit



Servo Kit for micro:bit

The Servo Kit for micro:bit makes it easy to connect up three servomotors from your micro:bit. Not only that, but the kit also comes with three servomotors and a battery box. Just add a micro:bit and batteries and away you go!

Company: MonkMakes Ltd



URL: <https://monkmakes.com>

Connection Type: Crocodile clips

Electronic Starter Kit



Electronic Starter Kit for micro:bit

This kit contains everything needed to start learning about connecting electronics to the micro:bit in an accessible and easy manner. Everything is connected using the supplied alligator clips, so no soldering required.

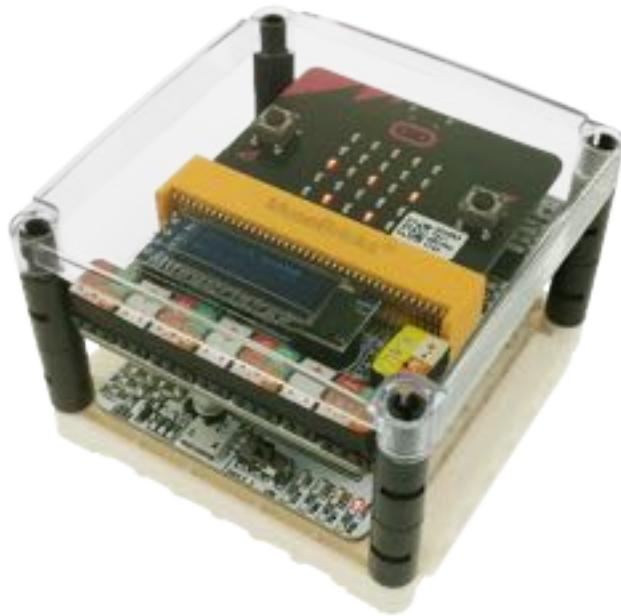
Company: MonkMakes Ltd



URL: <https://monkmakes.com>

Connection Type: Crocodile clips

MuseLab WiFi Booster



MuseLab WiFi Booster

Features:

- WiFi Module
- One 4-Pin I²C Port
- Four 3-Pin I/O Port
- OLED Screen
- micro:bit Edge Connector
- Rechargeable Battery Shield
- USB Port (for alternative power supply)

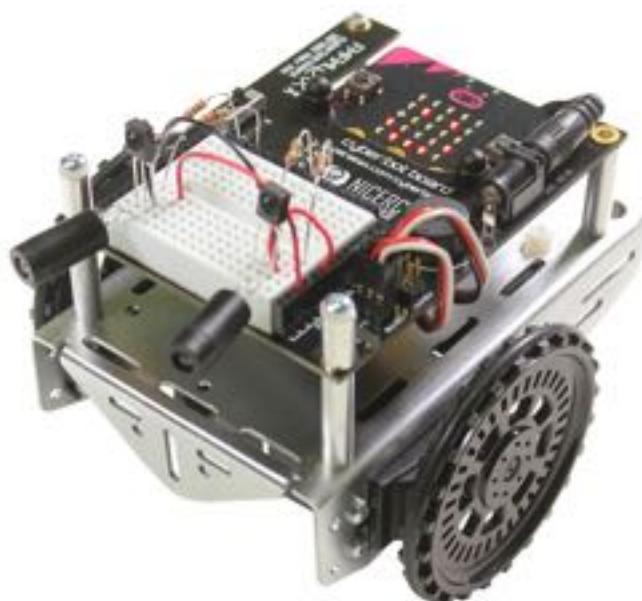
Company: MuseLab



URL: muselab.cc

Connection Type: Uses whole Edge Connector

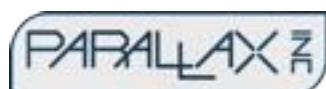
cyber:bot



cyber:bot Robot Kit

The cyber:bot robot adds a tangible hardware dimension to Python-focused computer science, CTE and cybersecurity programs. The cyber:bot robot puts the BBC micro:bit module on the Parallax small robot form factor that's a proven STEM success in classrooms from middle school into college, leveraging the add-ons available for this chassis. A user-transparent onboard Propeller Multicore Microcontroller assists the micro:bit, handling the real-time servo motor control and sensors built on the breadboard. This enables more robust robotic applications that go beyond what the micro:bit can do on its own.

Company: Parallax



URL: parallax.com

Connection Type: Screws/Bolts

scroll:bit



scroll:bit for micro:bit

scroll:bit is a little display with a lot of pixels! Its 119 bright white LEDs are perfect for scrolling messages with your micro:bit, or for animations, graphs, and more!

Company: Pimoroni

PIMORONI
Tech Treasure for Makers

URL: <https://shop.pimoroni.com>

Connection Type: Edge connector

enviro:bit



enviro:bit for micro:bit

Sense the world around you with enviro:bit! It's loaded with sensors for air and weather, colour and light, and sound, and slots right onto your micro:bit.

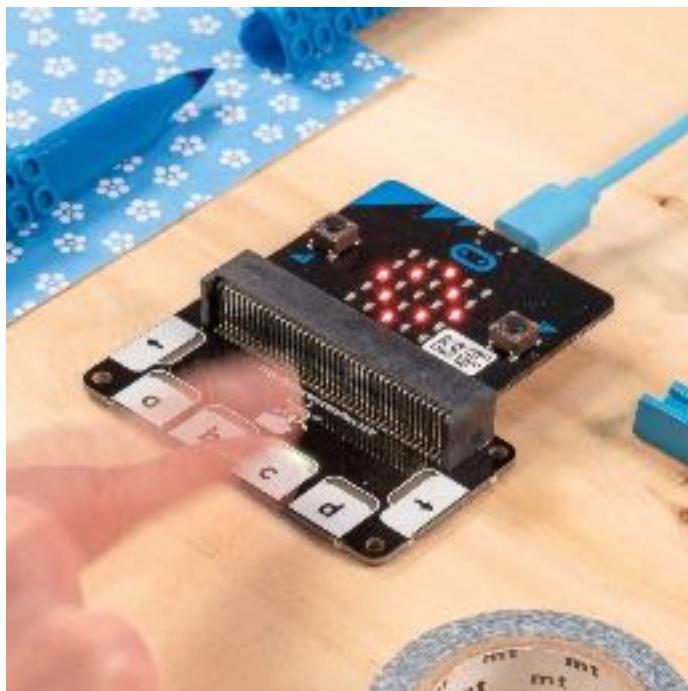
Company: Pimoroni

PIMORONI
Tech Treasure for Makers

URL: <https://shop.pimoroni.com>

Connection Type: Edge connector

touch:bit



touch:bit for micro:bit

Six handy touch-sensitive buttons and LEDs for your micro:bit. Use touch:bit as a controller for games on micro:bit's LED matrix, or combine it with the radio functionality and use it as a controller for your robot.

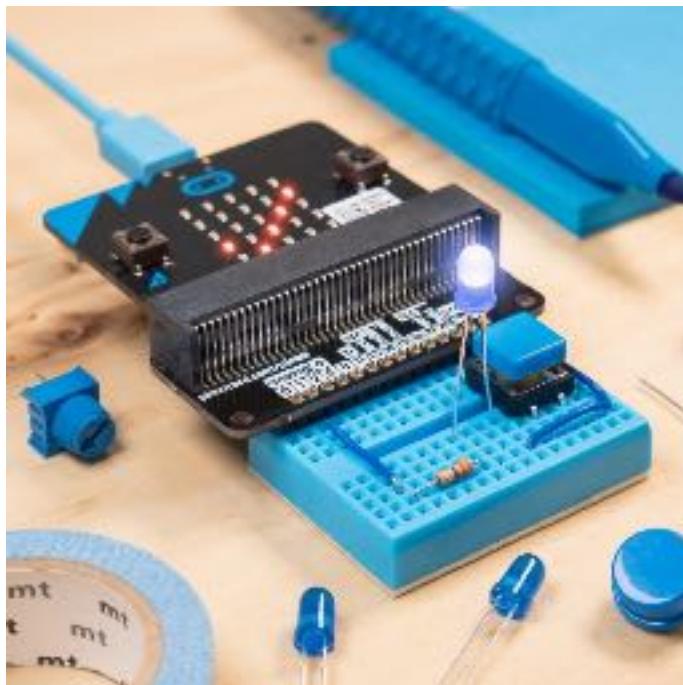
Company: Pimoroni

PIMORONI
Tech Treasure for Makers

URL: <https://shop.pimoroni.com>

Connection Type: Edge connector

pin:bit



pin:bit for micro:bit

pin:bit breaks out all of the useful pins from your micro:bit into breadboard format while providing handy-dandy labels to make your builds go smoothly.

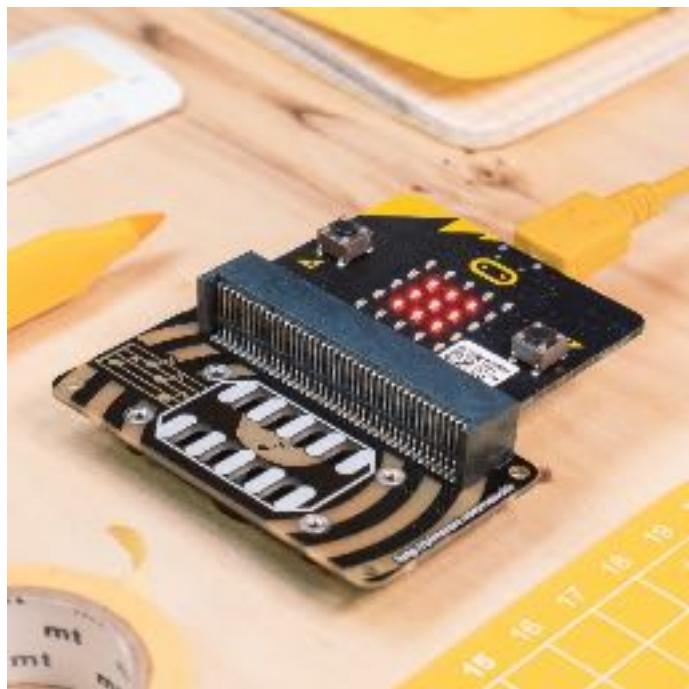
Company: Pimoroni

PIMORONI
Tech Treasure for Makers

URL: <https://shop.pimoroni.com>

Connection Type: Edge connector

noise:bit



noise:bit for micro:bit

Make your micro:bit sing with noise:bit! It's a tiny speaker that packs a fair bit of punch, and it's perfect for BLEEPs and BLOOPS!

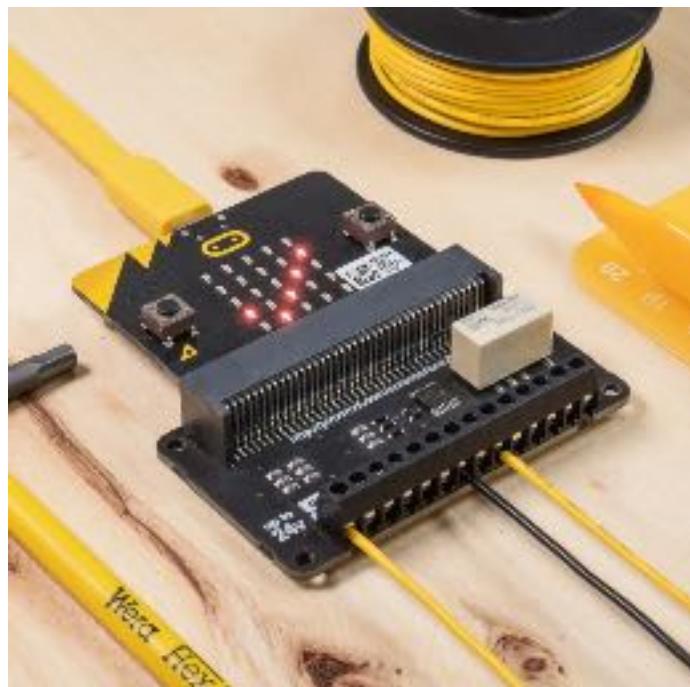
Company: Pimoroni

PIMORONI
Tech Treasure for Makers

URL: <https://shop.pimoroni.com>

Connection Type: Edge connector

automation:bit



automation:bit for micro:bit

Control and monitor your world with automation:bit! It's tolerant of up to 24V, with analog and digital inputs, outputs, and a relay, so it's ideal for automating low-voltage systems in your home.

Company: Pimoroni

PIMORONI
Tech Treasure for Makers

URL: <https://shop.pimoroni.com>

Connection Type: Edge connector

Bear Badge Kit



Bear Badge Kit for micro:bit

Build and code your own wearable bear badge with our scroll:bit micro:bit kit. Hang it around your neck and code it to be a name badge, fortune teller, or tilt-activated ghost.

Company: Pimoroni

PIMORONI
Tech Treasure for Makers

URL: <https://shop.pimoroni.com>

Connection Type: Edge connector

Enviro Kit



Enviro Kit for micro:bit

Make a friendly weather station to sit on your windowsill, that keeps track of temperature, pressure, humidity, light and colour, and sound. A perfect way to introduce kids to sensors and science.

Company: Pimoroni

PIMORONI
Tech Treasure for Makers

URL: <https://shop.pimoroni.com>

Connection Type: Edge connector

IoT LoRa Node



IoT micro:bit LoRa Node

Our IoT micro:bit LoRa Node allows you to create an inexpensive LoRa node, compatible with The Things Network, in conjunction with a BBC micro:bit or other single board computers.

This board allows quicker prototyping as it has the LoRa stack on the chip. Add sensors, buttons and more to complete your LoRa network!

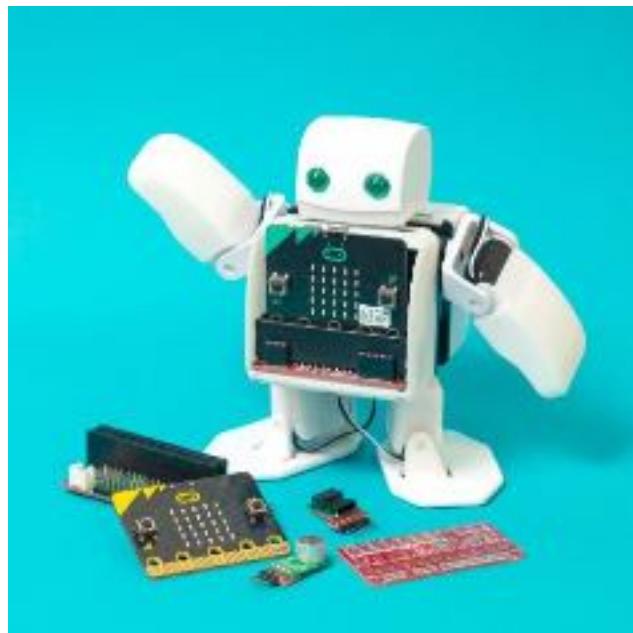
Company: PiSupply



URL: uk.pi-supply.com

Connection Type: Uses whole Edge Connector

PLEN:bit



PLEN:bit

PLEN: bit has 8 joints in a small body 13 cm tall, and can express various movements. A variety of preset movements are available, in addition to basic walking, dance, kick and other movements are possible, and you can play and dance and play soccer with multiple PLEN: bits.

PLEN: bit has distance sensor and sound sensor, plus all of the micro:bit sensors. For example, if you use distance sensor, you can create a program to escape the maze.

Company: PLEN



URL: Plen.jp

Connection Type: Uses whole Edge Connector

AMP:BIT



AMP:BIT class D amplifier for micro:bit with headphone jack

The Amp:bit is the easiest way to connect a speaker or headphones to your BBC micro:bit. The Amp:bit plugs on to the edge of your micro:bit and gives you the option of plugging headphones or speakers into the provided headphone jack, or you can solder speaker wires directly to the provided pads. The spacing is perfect for our 2 pin 3.5mm screw terminals.

If you have a speaker connected to the speaker pads, the speakers will automatically mute when something is plugged in to the headphone socket. We also give you a volume control wheel so you can adjust the volume whenever you like.

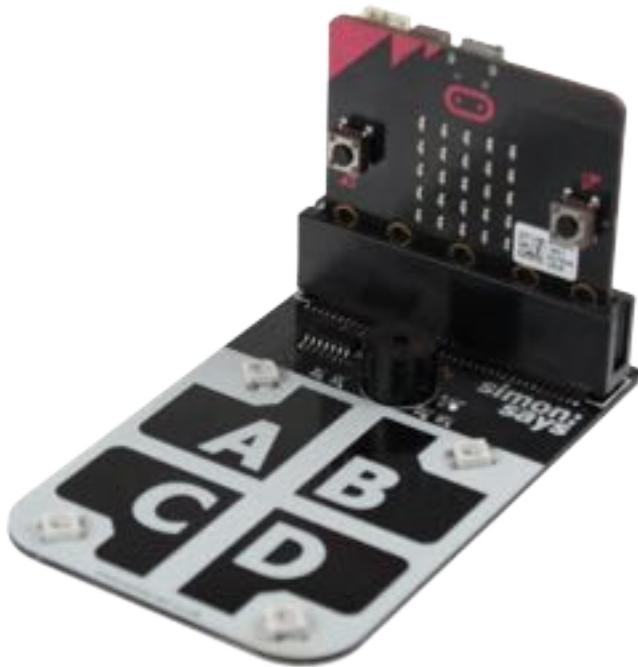
Company: Proto-PIC



URL: <https://www.proto-pic.co.uk>

Connection Type: Uses whole Edge Connector

Proto-PIC simon:says



Proto-PIC simon:says board for the BBC micro:bit

The simon:says board for micro:bit is a fun and exciting way to make a great working game without having to worry about the physical hardware side of things. Simply plug in your micro:bit and get coding!

The simon:says board comes with 4 input touch pads and 4 RGB LEDs (Neopixels) as well as a buzzer.

Either use the example code to get playing straight away or start from scratch.

Can you make a two player version using the radio function? Or how about a digital twister spinner? the choice is yours!

Company: Proto-PIC



URL: <https://www.proto-pic.co.uk>

Connection Type: Uses whole Edge Connector

1up:bit



1up:bit controller for micro:bit

The 1up:bit is a low cost game pad / controller kit for the BBC micro:bit it will give you access to an analogue thumb stick much like the ones in a PSP and two extra buttons taking the count up to 4 including the A and B button on the micro:bit. We ensured you can still use this with our bat:bit cases to power your micro:bit on the move , the 1up:bit also includes an EDGE connector along the bottom edge so you can hook up other accessories such as the micro:pixel EDGE or the amp:bit

Company: Proto-PIC



URL: <https://www.proto-pic.co.uk>

Connection Type: Uses whole Edge Connector

Moisture Sensor



Moisture Sensor for micro:bit

The moisture sensor for micro:bit allows your micro:bit to detect moisture, so if your plant is thirsty you'll know about it! or how about using one and a couple of micro:bits to tell you when your bath has reached the correct level?

To hook this up to your micro bit you will require alligator cables alternatively you can solder headers or a screw terminal to the board to make hooking it up to your other micro controller projects a dream.

Company: Proto-PIC



URL: <https://www.proto-pic.co.uk>

Connection Type: Clips

micro:pixel 4x8 WS2812B board



micro:pixel 4x8 WS2812B board for the BBC micro:bit

This board gives your micro:bit access to 32 addressable RGB WS2812B LEDs also known as neopixels. This can be used in all environments except touch develop.

You have access to pins 0, 1, 2, 3v and GND however pin 0 is used by the neopixels unless you use the solder jumper on the board which will set it to pin 8.

You can use the standard neopixel library which is available for touch develop, code kingdoms, micro python and PXT

Company: Proto-PIC



URL: <https://www.proto-pic.co.uk>

Connection Type: Uses whole Edge Connector

micro:pixel



micro:pixel Edge 1x10 WS2812B Board for micro:bit

Part of our range of micro:bit accessories and addons, the micro:pixel EDGE is the little brother of the micro:pixel board. It has 10 super high density WS2812B (NeoPixel) LEDs packed onto one side of the board a little larger than the micro:bit edge connector itself.

Simply plug your micro:bit into the connector, upload your code using the neopixel library and you're good to go!

This little board goes great with our bat:bit and makes the whole thing compact and mobile.

Company: Proto-PIC



URL: <https://www.proto-pic.co.uk>

Connection Type: Uses whole Edge Connector

exhi:bit Pedestrian Crossing experiment board



exhi:bit Pedestrian Crossing experiment board for the BBC micro:bit

This board works with the exhi:bit and comes either as a pre soldered kit or a solder yourself kit.

It features everything a single pedestrian crossing does, traffic lights (Red, Amber and Green) and the pedestrian crossing with Red and Green lights for the crossing and an amber light for the wait signal. It also features a buzzer for the crossing tone.

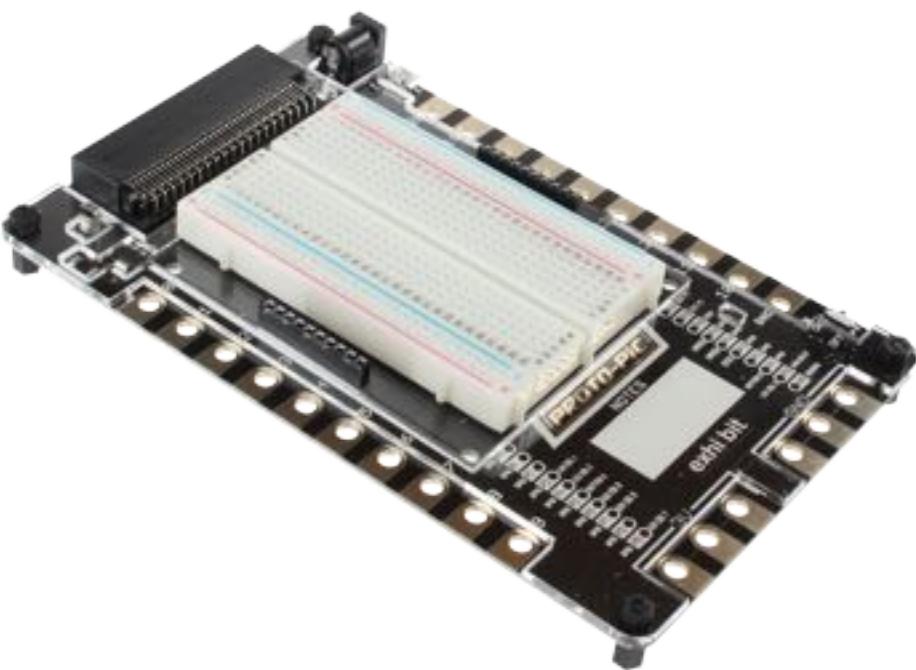
Company: Proto-PIC



URL: <https://www.proto-pic.co.uk>

Connection Type: Uses whole Edge Connector

exhi:bit Prototyping system



exhi:bit Prototyping system for the BBC micro:bit

This board breaks out all of the micro:bit pins to large pads suitable for crocodile clips and banana jacks as well as standard 2.54mm female headers.

it also has external power in from either USB or a DC jack and regulates the power down for the micro:bit.

It comes with a half sized breadboard for prototyping and a copy of this in a permanent prototyping area beneath making the unit into a permanent project board. Alternatively you can use a daughter board which plugs directly into the exhi:bit with the option of using pre existing experiments or your own with using a perma proto board.

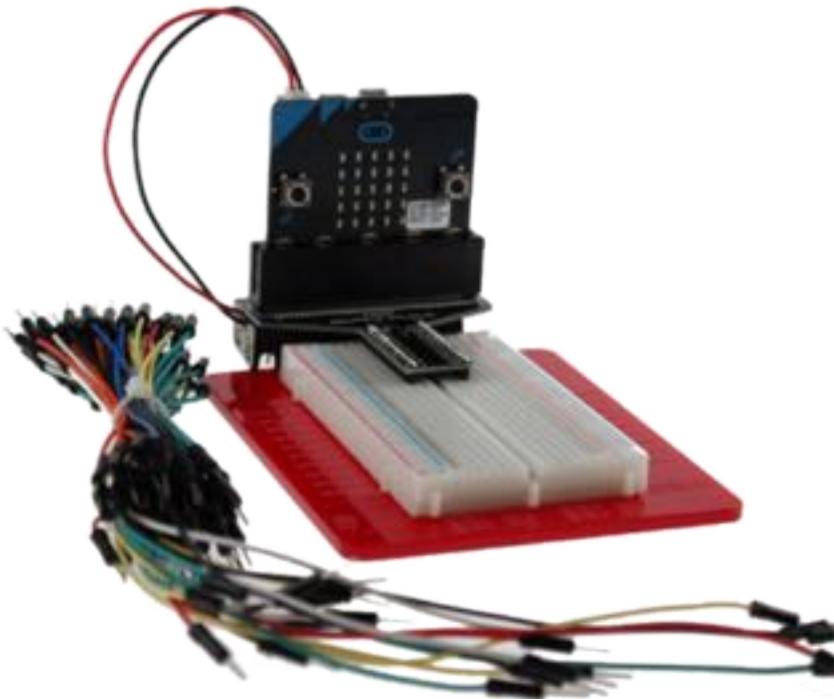
Company: Proto-TEC



URL: <https://www.proto-pic.co.uk>

Connection Type: Uses whole Edge Connector

bread:bit



bread:bit prototyping system for micro:bit

Are you looking for an inexpensive prototyping system for your micro:bit? well look no further! Part of our range of micro:bit accessories and addons, the bread:bit prototyping system fits snugly into the included breadboard giving you access to all of the micro:bits pins which you can then using the included male to male jumper wires build your own amazing project.

We include a base plate which has the micro:bits pin out engraved on to it so you can quickly see which pin is what. The four rubber feet stop your kit sliding around your desk and the included 2xAAA battery cage will fit perfectly under the bread:bit (we've even included double sided tape to make it super secure) making a super tidy and neat little prototyping area.

The bread:bit includes male headers which will require soldering however we can solder them for you using the option above.

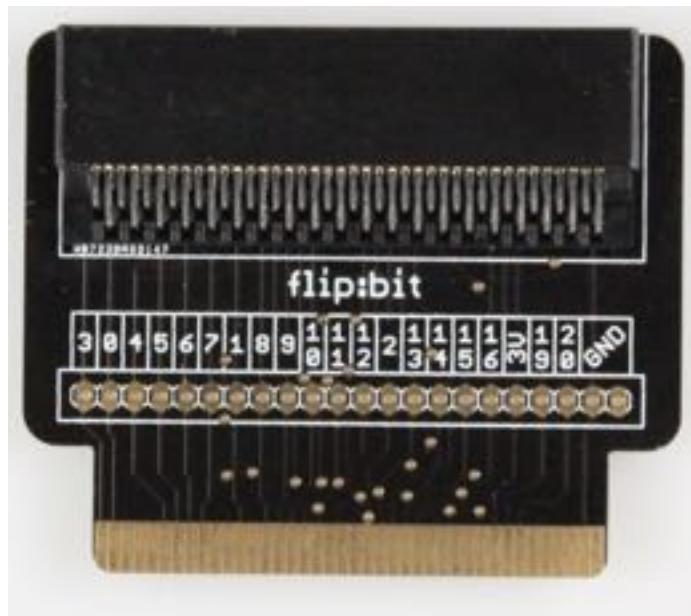
Company: Proto-PIC



URL: <https://www.proto-pic.co.uk>

Connection Type: Uses whole Edge Connector

flip:bit



flip:bit reverser for micro:bit

Would you like to be able to have your micro:bit facing the other way in whatever accessory you are using but the accessory doesn't support reversing the micro:bit? then the flip:bit is for you! simply solder up the provided through hole edge connector (or you can select the assembled version) insert your micro:bit with the LED matrix facing out and insert the entire assembly into whichever accessory you like - either way around!

Not only does the flip:bit let you reverse your micro:bit bit it also has the footprint for all of the micro:bits pins broken out giving you access to pins that your accessory might not make available, simply solder headers or wires directly to the provided pads and you are ready to use all of the available pins.

Company: Proto-PIC



URL: <https://www.proto-pic.co.uk>

Connection Type: Uses whole Edge Connector

bat:bit battery case



bat:bit battery case for the BBC micro:bit

This case protects the micro bit using laser cut acrylic as well as providing 2 AAA batteries with a power switch for the micro:bit, this case does not require the use of screws to hook up power through the edge connector which leaves the connector free to be used with any compatible accessory. The batteries also do not need to be connected using the JST connector and instead use spring clips to access the test pads on the rear of the micro:bit.

No other tools are required as a small laser cut spanner is included in the pack.

Company: Proto-PIC



URL: <https://www.proto-pic.co.uk>

Connection Type: Connects to the back of the board

Bob:Bit



bob:bit Breakout board to croc clip hoop adapter for BBC micro:bit

This simple little board allows you to connect up any standard 0.1" pitch breakout boards with 5 or less pins and breaks those pins out to croc clip hoops, making this little board especially useful for BBC micro:bit projects.

Company: Proto-PIC



URL: <https://www.proto-pic.co.uk>

Connection Type: Connects to the Edge Connector

Temp:Bit



temp:bit - TMP36 Temperature sensor kit for BBC micro:bit

Is it getting hot in here? well with this little temperature sensor board for your micro:bit you'll be able to tell.

Breaking out the trusty TMP36 to 3 hoops for easy crocodile clip connection for your micro:bit and available as a kit (requiring 3 pins to be soldered), you should be taking readings in no time.

We've even created these blog posts showing example code and the formula required to change the millivolt reading to a usable temperature.

Company: Proto-PIC



URL: <https://www.proto-pic.co.uk>

Connection Type: Connects to the Edge Connector

Rocket Car



Rocket Car for BBC micro:bit

The BLOODHOUND Project is using a 1,000mph world land speed record attempt to inspire the next generation to enjoy, explore and get involved in science, technology, engineering and mathematics.

The project has teamed up with Microsoft to develop its model rocket car programme to integrate micro:bit enabling it to run a schools model rocket car competition.

Rocket car kits can be modified by school teams to run faster. This is a great opportunity to get students excited about science, work as a team and get hands on experience of programming and aerodynamics in one of the most fun ways possible.

Company:

RACE FOR THE LINE

URL: <http://www.racefortheline.com>

Connection Type: Screws/Bolts

Learn to Code Course Kit - Classroom size



*Learn to Code Course Kit - Classroom size
for BBC micro:bit*

Use SAM Blocks, micro:bit and the SAM Blockly app to build classroom projects and complete lesson plans to teach KS2-KS3 computing (aligned to the National Curriculum in Computing and CAS Computing Progression Pathway).

Using a block-based programming approach, this course kit consists of a variety of teaching materials, SAM Blockly, our block-based coding app, and a comprehensive suite of SAM Labs wireless hardware blocks. If needed, include micro:bit.

Note: Blockly app is supported on Chromebooks, Macs and selected Windows devices equipped with latest Chrome browsers.

Company: SAM LABS



URL: <https://uk.samlabs.com/collections/all-products/products/learn-to-code-course-kit-classroom-size>

Connection Type: Edge connector

STEM:BIT



STEM:BIT

STEM:BIT is a Programmable Building Blocks kit (micro:bit LEGO kit) includes micro:bit board, micro:bit expansion board, battery, motor, and other electronic components, and more than 260 building blocks. micro:bit learning kit also comes with a building block assembly manual that provides the steps to assemble into 9 different building blocks.

Company: SB Components



URL: Sb-components.co.uk

Connection Type: Uses whole Edge Connector

Relay Bit



Relay Bit

The Relay Bit for micro:bit is a solid-state (no moving parts) relay that allows an output of a micro:bit to turn things on and off. A micro:bit can turn an LED on and off directly, but anything more powerful requires something like a relay or a transistor

Company: SB Components



URL: sb-components.co.uk

Connection Type: Uses whole Edge Connector

Plant Control System



Plant Control System for the BBC micro:bit

Are you tired of unhealthy plants in your home, office or classroom? Then look no further than the all new micro:bit Plant Control System brought to you by ScienceScope. Our system is designed to manage your plant's soil moisture level and keep it healthy all year round.

The micro:bit creates a control system between the soil moisture spikes and the water pump to ensure the moisture level of the soil is maintained at a calibrated level set by you. This means our micro:bit Plant Control System is compatible with all different environmental needs.

The control system also incorporates a light sensor which can be used to determine the optimal indoor location for plant.

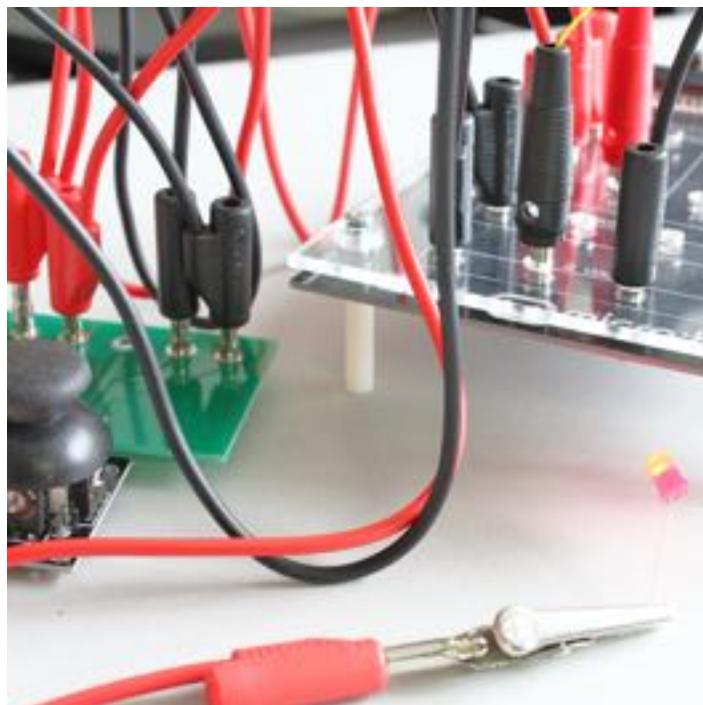
Company: ScienceScope



URL: <https://sciencescope.uk/>

Connection Type: Uses whole Edge Connector

micro:bit School Prototyping Kit



micro:bit School Prototyping Kit for the BBC micro:bit

The micro:bit school prototyping kit is everything you need to begin using the micro:bit in a practical and visual way.

This comprehensive school prototyping kit has been designed for use with standard 4mm banana cables and crocodile clips to eliminate the need for soldering therefore making prototyping easier and safer for your students.

The kit includes the new ScienceScope micro:bit breakout board, a range of micro:bit compatible products as well as a variety of components.

Add-ons include the micro:bit breakout board, sound cable and joystick as well as an array of components such as LEDs, resistors and LDRs.

Company: ScienceScope



URL: <https://sciencescope.uk/>

Connection Type: Edge Connector / clips/Plugs

CoderKits



CoderKits for the BBC micro:bit

The ScienceScope Coderkit has been designed to combine the teaching of programming and basic electronics using the BBC micro:bit in a creative and fun way. The kit includes four acrylic boards and a variety of components which can be connected using conductive paint allowing the user to create basic electronic circuits without the need for cables and soldering.

With a little bit of creativity the circuits can then be programmed using the BBC micro:bit to carry out a variety of functions. CoderKits are perfect for teaching the new computing curriculum allowing students to work from beginner to advanced.

The conductive paint can easily be washed off using soap and water making all boards reusable and allowing for the correction of simple mistakes.

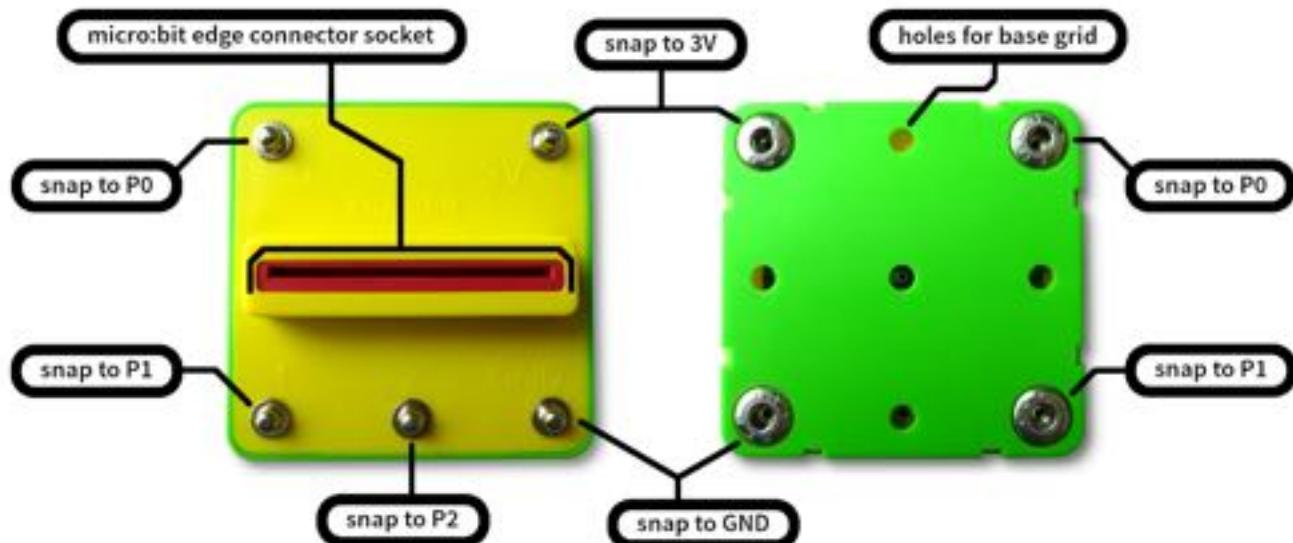
Company: ScienceScope



URL: <https://sciencescope.uk/>

Connection Type: 4mm Pins

snap:bit



snap:bit

Features:

- A socket for the BBC micro:bit edge connector.
- 5 snap buttons connected to the 5 major micro:bit pins: P0, P1, P2, 3V, and GND.
- Compatible with popular snap-based electronic kits.
- No need for crocodile clips, banana plugs, or other cables.
- Plenty of exciting projects using easy to learn block diagrams.
- Robust, kid-friendly design.

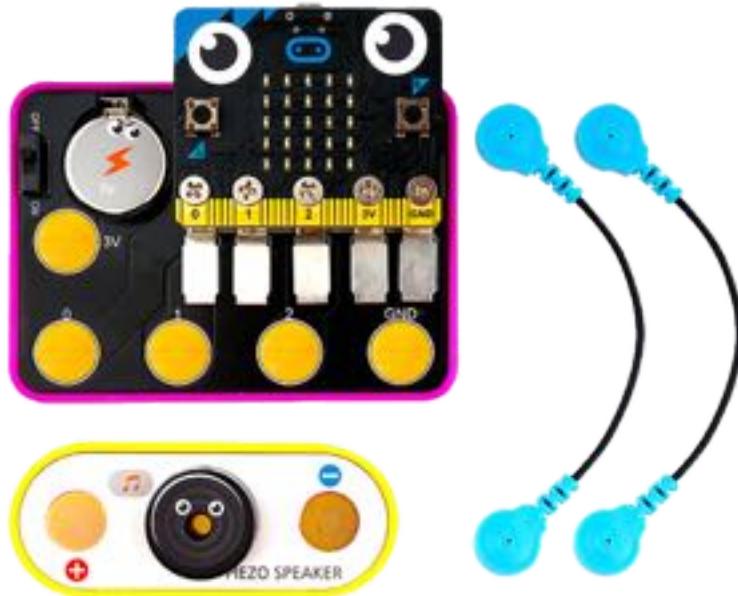
Company: Snap Bit



URL: snapbit.org

Connection Type: Uses whole Edge Connector

micro:bit SOKIT



micro:bit SOKIT for micro:bit

'micro:bit SOKIT' has extended feature added on the basic functions of micro:bit,

that is 'magnetic connecting solution', which is provided by 'SOKIT Pad',

assembled with micro:bit processor.

- 'SOKIT Pad' has 5 magnetic connectable bases corresponding to the 5 terminals of micro:bit,

and also has the 3V coin battery which enables stand-alone operations.

- 'SOKIT System' provides 'micro:bit SOKIT', 'SOKIT cables' and

'SOKIT modules(electronic elements with categorized-by-color bodies)',

all of them are magnetic connectable.

- The various 'Lessons and Projects' prepared with micro:bit

will be very easy, brief and safe for the young students.

Company: SOKIT Inc.



URL: <https://www.sokit.com>

Connection Type: Screws/Bolts

SparkFun Inventors Kit



SparkFun Inventor's Kit for the micro:bit

The SparkFun Inventor's Kit (SIK) for micro:bit is a great way to get creative, connected and coding with the micro:bit. The SIK for micro:bit provides not only the micro:bit board but everything you need to hook up and experiment with multiple electronic circuits! With the SIK for micro:bit you will be able to complete circuits that will teach you how to read sensors, move motors, build Bluetooth® devices and more. The SparkFun Inventor's Kit for micro:bit is the latest and greatest in single-board computer kits. Surrounding the micro:bit SIK is one core philosophy — that anyone can (and should) experiment with cutting-edge electronics in a fun and playful way without breaking the bank. The kit does not require any soldering and is recommended for all users, from beginners to engineers. We have provided a complete Experiment Guide in the Documents tab for you to check out now! If you have ever been interested in learning about electronics, or if you have used the original SparkFun Inventor's Kit and are looking for something new, the SIK for micro:bit is the perfect kit for you!

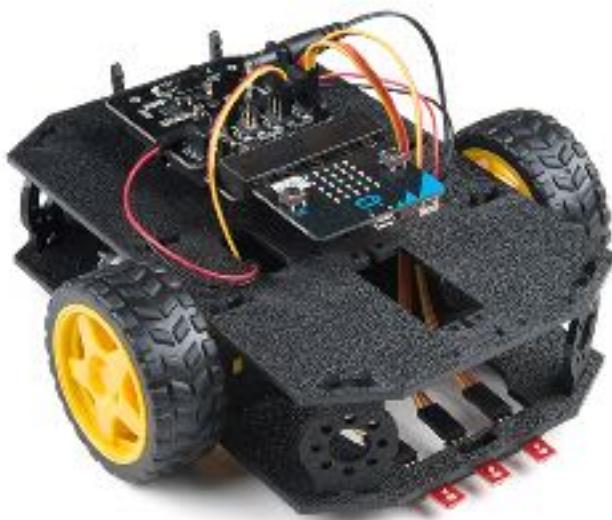
Company: SparkFun



URL: <http://www.sparkfun.com/microbit>

Connection Type: Screws/Bolts, Crocodile clips, Edge connector

SparkFun micro:bot Kit



SparkFun micro:bot Kit for the micro:bit

Robots are fun, and the micro:bit is the perfect controller for learning how to build and program robots! Combining the micro:bit with the SparkFun moto:bit carrier board creates a flexible, low-cost robotics platform for robot enthusiasts young and old! With the SparkFun micro:bot kit you will be able to create simple robots quickly without spending hours learning how to build and program your bot. Inside each micro:bot kit you will find all the components required to build your micro:bit into a robotics powerhouse; the only part that's not included is the micro:bit itself. Simply add your own micro:bit to the provided moto:bit, assemble the kit, and you will be ready to start moving. The SparkFun micro:bot kit is a great way to get your feet wet in the world of robotics. The kit does not require any soldering and is recommended for anyone curious about robotics or the micro:bit platform.

Company: SparkFun



URL: <http://www.sparkfun.com/microbit>

Connection Type: Edge connector

SparkFun micro:climate Kit



SparkFun micro:climate Kit for the micro:bit

The SparkFun micro:climate kit is a full weather station kit that is built on top of the weather:bit carrier board. Unlike previous weather kits we've carried, the micro:climate kit includes our tried-and-true Weather Meters and Soil Moisture Sensor, so whether you're an agriculturalist, a professional meteorologist or a hobbyist, you will be able to build a high-grade weather station powered by the micro:bit. You can even talk via wireless communication between two micro:bits with this kit to be able to monitor the weather without being exposed to it! Inside each micro:climate kit you will find all the components required to build your micro:bit into a go-to weather sensor; the only parts not included are two AA batteries and the micro:bit itself. Simply add your own micro:bit to the provided weather:bit, assemble the kit, and you will be ready to start sensing. The SparkFun micro:climate kit is a great way to get your feet wet in high-grade sensors — just not literally; that's the weather:bit's job! The kit does not require any soldering and is recommended for anyone curious about weather-sensing technology or the micro:bit platform.

Company: SparkFun



URL: <http://www.sparkfun.com/microbit>

Connection Type: Screws/Bolts & Edge connector

SparkFun micro:arcade Kit



SparkFun micro:arcade Kit for the micro:bit

We love games! We love writing games, building games and, yes, even building game consoles. That's where the SparkFun micro:arcade kit for the micro:bit comes in! The kit includes our gamer:bit carrier board, which gives you access to a number of pins in the form of buttons laid out in a similar form factor to the classic Nintendo NES controller. With the micro:arcade kit you will be able to turn a classic controller into an arcade cabinet by connecting just a few buttons and switches. Inside each micro:arcade kit you will find all the components required to build your micro:bit into a full-fledged game system; the only parts not included are two AA batteries and the micro:bit itself. Simply add your own micro:bit to the provided gamer:bit, assemble the kit, and you will be ready to start playing. The SparkFun micro:arcade kit is a great way to build the arcade setup you've always wanted! The kit does not require any soldering and is recommended for anyone curious about gaming or the micro:bit platform.

Company: SparkFun



URL: <http://www.sparkfun.com/microbit>

Connection Type: Edge connector & poke-home

SparkFun gator:bit



SparkFun gator:bit for BBC micro:bit

The SparkFun gator:bit is an all-in-one “carrier” board for your micro:bit that provides you with a fully functional development and prototyping platform. Almost every pin on the micro:bit is broken out to pads that alligator (or crocodile, if you prefer) clips so you can get the most out of it! Whether it is data visualization using the five on-board addressable LEDs, capacitive touch sensing on pins 0, 1, & 2, or creating musical works of art using the built-in speaker we've got it covered with the SparkFun gator:bit! The major benefit of gator:bit that we have provided is safe access to as many GPIO as possible from the micro:bit. Not only are pins 0, 1, 2, 8, 16, 5 (Button A), and 11 (Button B) broken out, but they are also protected against over voltage and over current/short circuit. Pins 0, 1, and 2 are ADC pins and are also the capacitive touch pins. Pins 8, 16, 5, and 11 are digital pins capable of read and write. Additionally, pins 13 (SPI), 14(SPI), 15(SPI), 19 (I2C), and 20 (I2C) can be used to read and write whatever digital signals you could want. We go into much more detail about each pin and other attributes (like supplying voltage out, light, and sound) in the SparkFun gator:bit Guide found below. Make sure to check that out! Each SparkFun gator:bit can be powered from 2.7V - 9V giving you quite a range of powering options. There are two ways of powering your gator:bit, either from the JST battery terminal or the alligator clip pads labeled “VIN”. Any voltage input between 2.7V and 9V will be regulated to 3.3V to power the micro:bit, the speaker, and for use by any of the alligator clip pins. Even without any external hardware the gator:bit is still an exploratory development board for micro:bit allowing the easiest access to it for educators, beginners, and pro-makers alike.

Company: SparkFun



URL: <http://www.sparkfun.com/microbit>

Connection Type: Crocodile clips & Edge connector

Sphero RVR



Sphero RVR

RVR is Sphero's revolutionary take on the programmable robot -- drivable right out of the box, packed with a diverse suite of sensors, and built for customization.

Utilizing an expansion port, you can connect 3rd party hardware like Raspberry Pi, Arduino, BBC micro:bit, and more. RVR is a mobile platform for everyone from beginners to elite hackers, educators, and students.

Company: Sphero



URL: <https://www.sphero.com/rvr>

Connection Type: Expansion port

Strawbees Robotic Inventions



Strawbees Robotic Inventions for the micro:bit

The board allows you snap on electronics together with Strawbees structures and program servo motors with the micro:bit. Write in MakeCode's block-based programming platform, upload a program and remove from the computer to run on batteries. Use the touch functionality of the alligator clips for more interaction.

Company: Strawbees

Strawbees®
THE FUTURE OF LEARNING

URL: strawbees.com

Connection Type: Uses whole Edge Connector

Micro:slothbit



Humanoid robot for BBC micro:bit

MICRO:BIT - BBC micro:bit micro-controller with motion detection, compass, LED display and Bluetooth.

APP PROGRAMMING - Visual programming can be completed by micro:bit APP on iPad, tablet or cellphone

Obstacle Avoidance - Automatically bypass obstacles ahead, it is intelligent enough.

SOUND SENSOR - Controlled the sloth:bit by clapping your hands or sounds from other actions.

FUNNY PLAY - Sloth:bit can be very easy to program and play with the BBC micro:bit.

Company: SunFounder

SunFounder

URL: <https://www.sunfounder.com/humanoid-robot-bbc-micro-bit.html>

Connection Type: Whole edge connector

Twin Drill Jet Mole



Twin Drill Jet Mole

The Twin Drill Jet Mole is a product made for the book "Introduction to Mass Production for Makers and Startups (O'Reilly, Japan)". Based on over 40 years of experience by the author, Yoshiki Omino, this book is a must-have for the maker, with a detailed process and know-how from the prototype of the twin drill jet mole to the commercialization.

Company: Switch Education



URL: switch-education.com

Connection Type: Uses whole Edge Connector

bitPak:Mimi



bitPak:Mimi

This is a package kit that includes the necessary modules for making “ears” that run on micro: bits, and useful framework parts. This kit is perfect for costumes.

Company: Switch Education



URL: switch-education.com

Connection Type: Uses whole Edge Connector

bitPak:Crawler



bitPak:Crawler

A package kit that can move the crawler with micro:bit. Compared to bitPak: Racer and bitPak: Drive , it is a car that is more tolerant to bumps (you can go up to a bump of about 2.5cm). You can also play like a radio-controlled car using a micro:bit controller kit or a micro:bit joystick controller kit.

In addition, I/O parts that can be connected to the micro:bit basic module kit and the micro:bit connector base can be added.

Company: Switch Education



URL: switch-education.com

Connection Type: Uses whole Edge Connector

bitPak:Racer



bitPak:Racer

This is a package kit that can make a four-wheeled vehicle with micro:bit.

Turn right/left by controlling the direction of the front wheels with a servo motor.

You can also play like a radio-controlled car using a micro:bit controller kit or a micro:bit joystick controller kit .

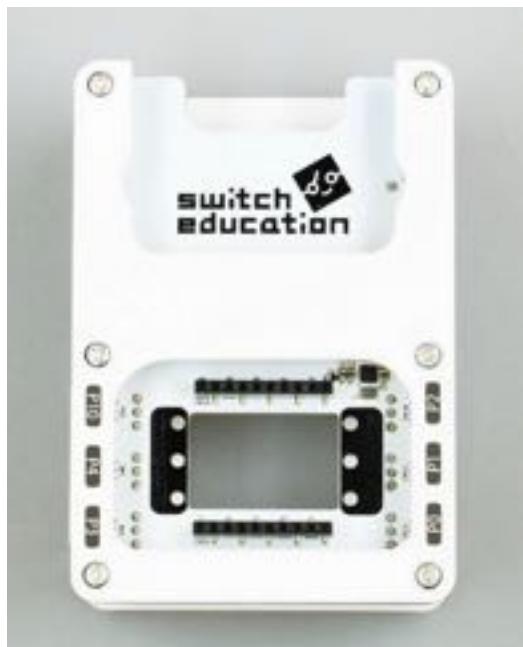
Company: Switch Education



URL: switch-education.com

Connection Type: Uses whole Edge Connector

bitPak:Lab



bitPak: Lab

Create a multi-meter using a micro:bit and bitPak:Lab. Different modules allow for measurement & control or use of electricity.

Company: Switch Education



URL: switch-education.com

Connection Type: Uses whole Edge Connector

Nexus:bit



Nexus:bit for the BBC micro:bit

Nexus:bit is a powerful and easy-to-use multi-purpose micro:bit board with onboard 18650 lithium battery, a buzzer, vibration motor, microphone, RGB LED, 2 DC motor pins, 12 PCA9685 servo pins, 5V/3.3V power output as well as full breakout pins and additional I2C/SPI pins.

Company: Taiwan Coding Education Association



URL: <http://www.beyond-coding.org.tw/>

Connection Type: Edge connector

Thunder:bit



Thunder:bit for the BBC micro:bit

Thunder: bit is a modular power kit for micro:bit that integrates various sub-components and greatly simplifies circuit wiring, and the terminal fittings are screw-free. With Thunder: bit combined with micro:bit graphical building block programming, both novice and veteran can quickly create a wireless remote control car, robotic arm and other applications.

Company: Taiwan Coding Education Association



URL: <http://www.beyond-coding.org.tw/>

Connection Type: Edge connector

NexusBot



NexusBot for the BBC micro:bit

NexusBot is a programmable and easy-to-build 8-servo robot suitable for children coding and STEM education, which can also be reconfigured as a 2WD car! It uses a micro:bit computer, a TCEA Nexus:bit expansion board and can be controlled via our dedicated Nexus:bit MakeCode editor extension. Children can make the robot walk, wave, dance real quick by simply drag and drop a few code blocks! You can also add obstacle avoidance, remote control or even external AI image recognition, all the fun features!

Company: Taiwan Coding Education Association



URL: <http://www.beyond-coding.org.tw/>

Connection Type: Edge connector

Microcomputer Robot



Microcomputer Robot

Construction and programming are essential to developing young minds. This TAMIYA construction kit takes Tamiya's CAM PROGRAM ROBOT to the next level with its first product in the new Programming Robot Series. The kit includes a BBC micro:bit computer which controls the model when it is finished, and can even be modified with your own unique program. The possibilities are endless, not least for STEM work with those studying the application of programming in the classroom.

Company: TAMIYA



URL: tamiya.com

Connection Type: Uses whole Edge Connector

micro:craft pack



micro:craft pack for the BBC micro:bit

Tech and craft come together.

With regularly updated projects out of the box, you'll make things from music instruments out of fruit to a football game.

Company: Technology Will Save Us

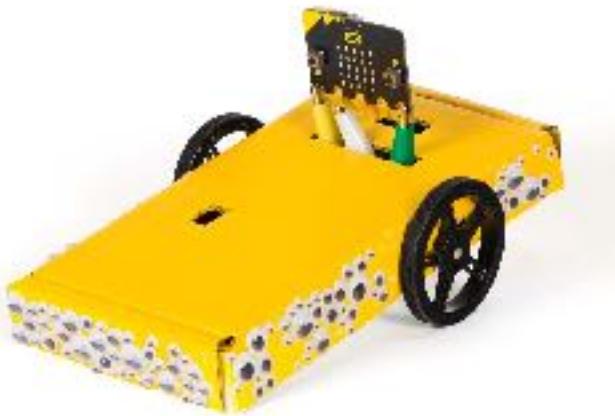


TECHNOLOGY
WILL SAVE US.

URL: <https://www.techwillsaveus.com/>

Connection Type: Crocodile Clips/Banana Plugs / Radio

micro:bot pack



micro:bot pack for the BBC micro:bit

micro:bit powered robot which you build yourself!

Say hello to the simplest and coolest robot for kids. Learn to build & code 3 different types of toy robots, then use your new creative skills to invent any bot you can imagine!

Company: Technology Will Save Us



TECHNOLOGY
WILL SAVE US.

URL: <https://www.techwillsaveus.com/>

Connection Type: Crocodile Clips/Banana Plugs / Radio

TOBBIE II



TOBBIE II for the BBC micro:bit

Robotics meet BBC micro:bit. All the dynamic functionality of the micro:bit microprocessor has been integrated into the Tobbie II Robot. Programmable build-it-yourself hexiped robot with a 360 degree free-rotation body.

Accessible coding using MakeCode or Python for more advanced programmers.

Downloadable programs: Tobbie II has 12 programs available for download, so you can start having fun immediately! Downloadable programs include light tracker, rock-paper-scissors, notice board and bowling.

Cross Platform: Utilize your favourite device to code your new Tobbie II. Desktop, laptop, iOS or Android mobile devices supported.
Best suited for Programmers and Engineers 10 and up.

Company:	Multiple companies
URL:	
Connection Type:	Edge connector

Switch FET



Control switch FET

Program control switch TFW-SW1 for micro:bit, which can be detached with one touch, enables direct programming control of electricity stored in a capacitor with a hand-held generator in science class of sixth grade elementary school. There is also a starter kit C2 with this program control switch.

Company: TFabWorks



URL: <https://tfabworks.com/product/tfw-sw1/>

Connection Type: Clips on to edge connector

Switch Electromagnetic



Control switch electromagnetic

Light bulbs and motors can be easily turned ON / OFF with micro: bit.

When 1 is output to P1 digitally, the switch is ON.

It is ideal for direct program control of electricity stored in a capacitor with a hand-held generator at the “use of electricity” of science sixth grader.

The switch uses an electromagnetic relay. Electromagnetic relays lead to learning because the switches are turned on and off by electromagnets learned in the fifth grade of elementary school.

Company: TFabWorks



URL: <https://tfabworks.com/product/tfw-sw2/>

Connection Type: Clips on to edge connector

Temperature sensor



Temperature sensor

It is a temperature sensor for micro: bit. micro: bit. The accuracy of the built-in temperature sensor ($\pm 8^\circ\text{C}$ -25 to 75°C) was newly developed. Pursuing simplicity and low cost. We use our own spring plug (patent pending) for the connector. It can be attached to micro: bit with one touch.

Company: TFabWorks



URL: <https://tfabworks.com/product/tfw-tp1/>

Connection Type: Clips on to edge connector

Servo board



Servo motor connect board for BBC micro:bit

It is a board for connecting only the power supply from the battery box while connecting in the same way as the wiring diagram appearing in the simulator of the micro: bit block editor. There is a servo connect board set for micro: bit (MB-SET-SB1) , which is a set of board box and micro servo .

Company: TFabWorks



URL: <https://tfabworks.com/product/tfw-sb1/>

Connection Type: Crocodile clips

Speaker



Speaker for BBC micro:bit

Tiny clip-on piezo electric speaker for micro:bit

micro:bit one-touch speaker is detachable in one operation easily.

Since it is cableless, it does not interfere with connecting micro:bit to a battery box.

Even children can use the one-touch speaker because it is unnecessary to tighten screws every time.

It equips our original bane-plug (PAT.P) .

Company: TFabWorks



URL: <https://tfabworks.com/en/tfw-sp1/>

Connection Type: Clips on to edge connector

Large Volume Speaker



Large Volume Speaker for BBC micro:bit

It is a speaker for micro:bit which can be detached by one touch. Because there is no cable, it does not get in the way when connecting to the battery box and playing. There is no need to screw it each time, and even children can easily install it. We use our own spring plug (patent pending) for the connector. The built-in amplifier produces louder sound than the conventional one-touch speaker (TFW-SP1) .

Company: TFabWorks



URL: <https://tfabworks.com/en/tfw-sp2/>

Connection Type: Clips on to edge connector

Servo connect board with speaker



Servo connect board with speaker

You can easily make various moving works with micro:bit. We use our own spring plug (patent pending) for the connector. There is no need to screw it each time, and even children can easily install it. Equipped with a speaker.

Company: TFabWorks



URL: <https://tfabworks.com/en/tfw-kr1/>

Connection Type: Clips on to edge connector

Science board



Science board for learning electricity

This is a product developed for micro class teaching of "Utilization of electricity" in sixth grader science.

The electric circuit can be easily controlled by micro: bit. The structure of turning the switch ON / OFF by the electromagnet connects the class and learning of the fifth grade elementary school electromagnet.

It is equipped with a human sensor that is most familiar to children used in automatic lighting of toilets. (It differs from distance sensor) As reaction range is wide when used for class as it is, detachable infrared directional tube is attached.

Company: TFabWorks



URL: <https://tfabworks.com/en/tfw-rk2/>

Connection Type: Clips on to edge connector

Battery box with speaker



Battery box with speaker

It is a battery box with a dedicated speaker for micro:bit that can be attached and detached with one touch.

Because there is no cable, it does not get in the way when connecting to the battery box and playing.

We use our own spring plug (patent pending) for the connector. Children can easily attach and detach because there is no need to screw them each time.

Company: TFabWorks



URL: <https://tfabworks.com/en/tfw-bt3/>

Connection Type: Clips on to edge connector

Ultrasonic sensor



Sensor for BBC micro:bit

It is an ultrasonic distance sensor that combines with micro: bit with one touch.

Company: TFabWorks



URL: <https://tfabworks.com/product/tfw-ds1/>

Connection Type: Clips on to edge connector

Infrared controller



Infrared controller

It is an infrared controller for micro: bit that can be detached with one touch.

Company: TFabWorks



URL: <https://tfabworks.com/product/tfw-ir1/>

Connection Type: Clips on to edge connector

Game:bit Kit



Game:bit Kit for micro:bit

Get transported back to the 90s with our handheld micro:bit console. The best part is you can code your own games on this 5x5 LED screen that's also a game controller! Learn how to construct games in tight spaces, bring it around, and show it off to your friends! Games you can make PACMAN Maze Runner Pancake Flip! Space Shooter Flappy Bird And more! All game tutorials included in this kit are in beginner-friendly MakeCode. When you're done playing around with games, check out more projects on our Tinkercademy micro:bit page.

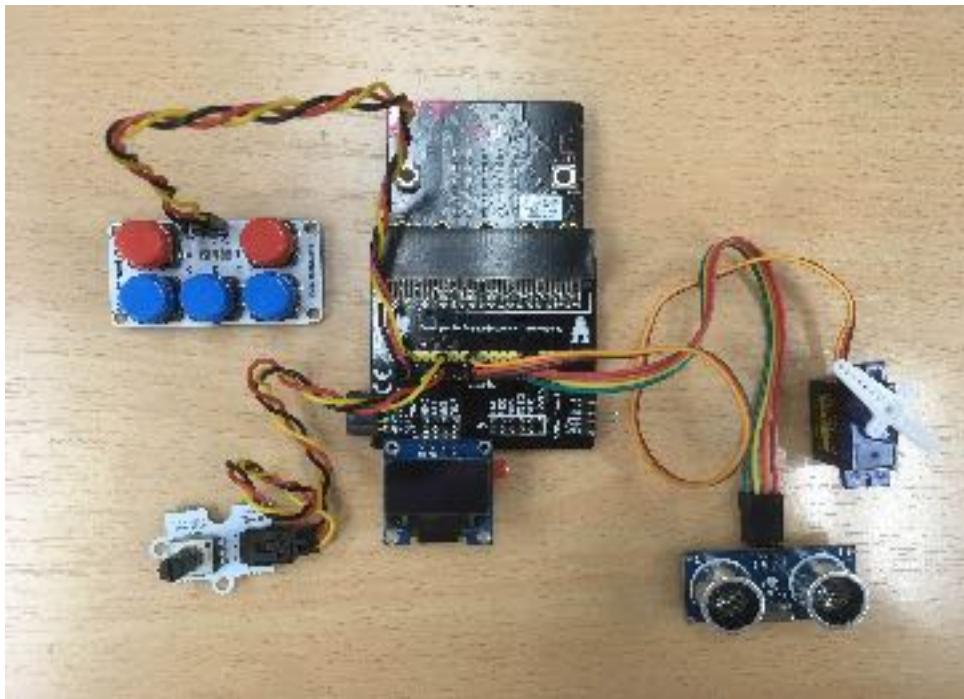
Company: Tinkertanker Pte Ltd



URL: <https://tinkertanker.com>

Connection Type: Screws/Bolts

Tinkercademy GVS Breakout Board



Tinkercademy GVS Breakout Board for the BBC micro:bit

With this accessory board for the BBC micro:bit, you can easily connect a wide variety of low-cost sensor and output modules to the BBC micro:bit without having to deal with messy breadboard wires.

When paired with compatible modules, this becomes especially suitable for the classroom as students get to expand the capabilities of their BBC micro:bit without fear of making mistakes with wiring.

Compatible modules are available from many different vendors and include motion sensors, touch sensors, soil moisture sensors, small servo motors, OLED displays, and many more. These modules already exist as they were originally designed for the Arduino platform, and many of them can be also used with the BBC micro:bit via the Tinkercademy GVS Breakout Board.

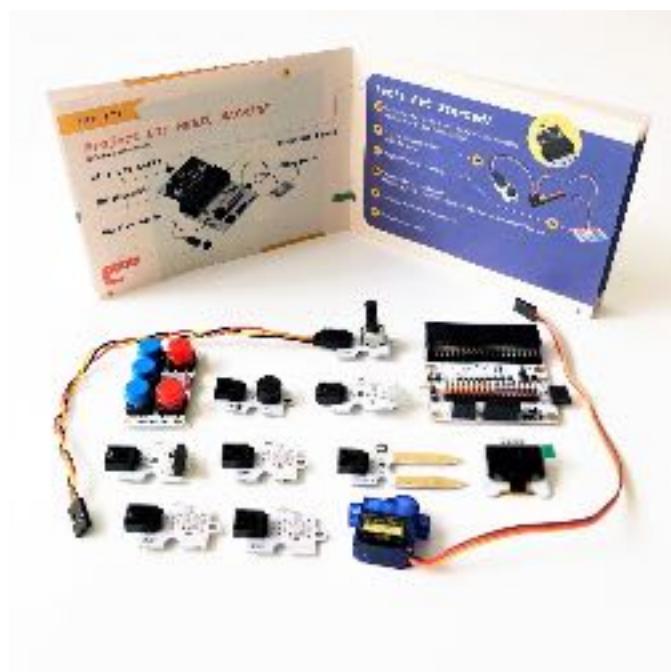
Company: Tinkertanker



URL: <https://tinkertanker.com>

Connection Type: Uses whole Edge Connector

Micro:bit Tinker Kit



Micro:bit Tinker Kit for micro:bit

Start your Digital Maker journey with the micro:bit and a variety of easy-to-use components! This kit comes our very own custom Breakout Board, a variety of modules and lots of project tutorials to help you create dozens of amazing digital maker projects! Great for the classroom: Expand the possibilities of students' projects with a wide library of compatible modules! Great for beginners: Drastically reduce the fear of making mistakes with wiring. Great variety: Includes 10 modules to create a huge range of projects, including an OLED module! Great bang for your buck: One of the most affordable micro:bit kits.

Company: Tinkertanker Pte Ltd



URL: <https://tinkertanker.com>

Connection Type:

Trashbots



Trashbot kit for BBC micro:bit

The Trashbots kit is an affordable robotics kit that allows users to maximize the creativity used. This kit can be used to teach many STEM concepts ranging from programmatic thinking to basic mechatronics to text-based programming. Kids all over the world can use it regardless of place (rural or urban) or age (K-12).

Company: TrashBots



URL: <https://www.trashbots.co/>

Connection Type: Whole Edge Connector

Kitibot



Kitibot robot for BBC micro:bit

When KitiBot meets micro:bit, when kids meet programming, the mysterious robotics becomes simple, each interesting idea will come true. By using the graphical programming software, learning programming, and exploring robotics would be as easy as building blocks. This KitiBot tracked robot kit uses the BBC micro:bit (NOT included) as the host controller, combined with several functional modules, it is easy for the kids to experience robotic tricks such as: line tracking, obstacle avoiding, ultrasonic ranging, servo operation, Bluetooth remote control, etc.

Company: Waveshare



URL: <https://www.waveshare.com/kitibot-for-micro-bit-accessory.htm>

Connection Type: Uses whole edge connector

LCD Screen



LCD screen for BBC micro:bit

This is a colorful display module designed for the BBC micro:bit, 1.8inch diagonal, 160x128 pixels, capable of displaying 65K colors. Tired of the 5x5 LED matrix?

Features:

micro:bit edge connector, directly pluggable. Embedded driver ST7735S, supports 65K colors. Onboard SRAM 23LC1024, used as display cache, no more out of memory. SPI interface, takes up only a few IO pins. Backlight adjustment via PWM. Reserved solder pads for control interface, make it easy to connect with Arduino/Nucleo boards. Comes with development resources (micro:bit graphical demo/python code/user manual, etc.).

Company:	Waveshare	
URL:	https://www.waveshare.com/1.8inch-lcd-for-micro-bit.htm	
Connection Type:	Uses whole edge connector	

Mini Piano Module



Mini Piano Module for micro:bit

Isn't it cooooool to play your favorite song using the BBC micro:bit? Just plug it into this little piano and enjoy.

micro:bit edge connector, directly pluggable

Buzzer to play music

Onboard capacitive touch controller, 13x touch keys through I2C interface

4x RGB LEDs, controlled by only one signal pin

Breakout module control pins, micro:bit SPI pins, and some of the GPIO pins, easy expansion

Company: Waveshare



URL: <https://www.waveshare.com/>

Connection Type: Uses whole edge connector

Speaker for micro:bit



Speaker for micro:bit, Music Player

Speaker expansion module designed for micro:bit, makes your micro:bit become a music player easily.

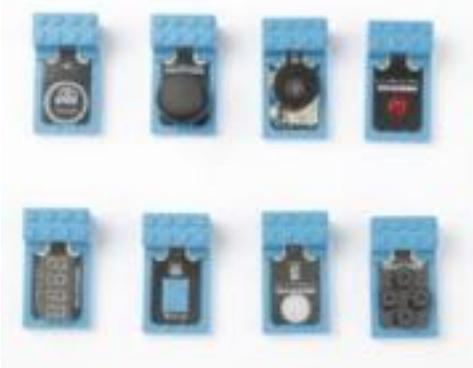
Company: Waveshare



URL: <https://www.waveshare.com/>

Connection Type: Crocodile clips

ELF Shield for micro:bit



ELF Shield for micro:bit

ELF shield is a shield board for BBC micro:bit. It connects micro:bit to WeeeMake electronic modules, motors, and servos, to enriching the function and ability of micro:bit board.

Driven by 18650 lithium battery, integrated sound sensor, buzzer, three RGB LEDs, four RJ11 electronic port, two DC motor port, and two servo motor port. ELF shield for micro:bit is a powerful extension board for students to explore all kinds of projects with BBC micro:bit on Microsoft MakeCode and MicroPython.

Key Features:

1. Easy to use. The RJ11 cable is plug and play, no wiring confusion or trouble.
2. Wide platform. We have 34 sensors and modules supported on MakeCode and MicroPython, enable creation. It's a very wide platform with interesting sensors such as PM2.5 sensor, UV sensor, Barometer sensor, MP3, Water Atomizer, etc.
3. 18650 lithium battery included, charging directly with microUSB on shield, no worry of power.

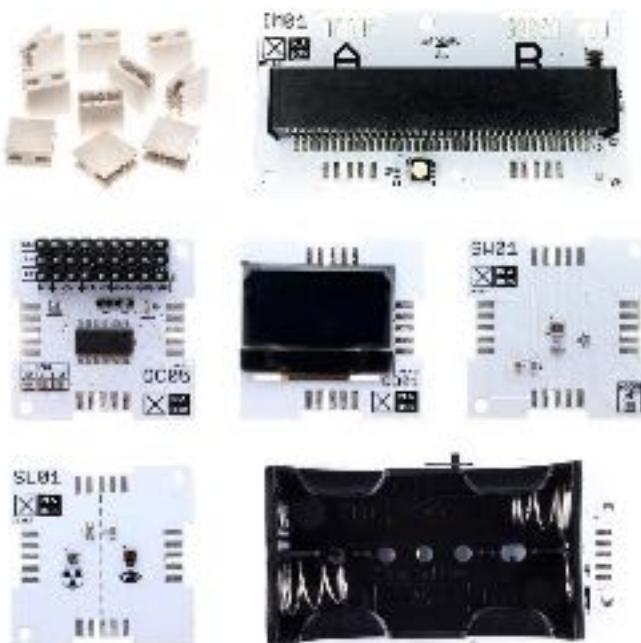
Company: WeeeMake



URL: www.weeemake.com

Connection Type: Screws/Bolts, Crocodile clips, Edge connector

STEM Kit

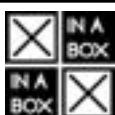


STEM Kit for micro:bit

The XinaBox STEM micro:bit Kit (XK04) is a great way to upgrade your BBC micro:bit and unlock some exciting opportunities for learning and fun. Build and code environmental sensors and use the OLED display for messages and diagnostics. The servo motor can be used in automation projects or go portable with the intelligent battery pack. And the IM01 interface is the basis of a powerful and unique data logging system.

In the box you will find two xChip sensors: one for UVA, UVB and light, and the other for temperature, humidity and atmospheric pressure. You will also find a mini-OLED display, a dual AA battery power pack, a servo driver, connectors, plus a micro:bit interface.

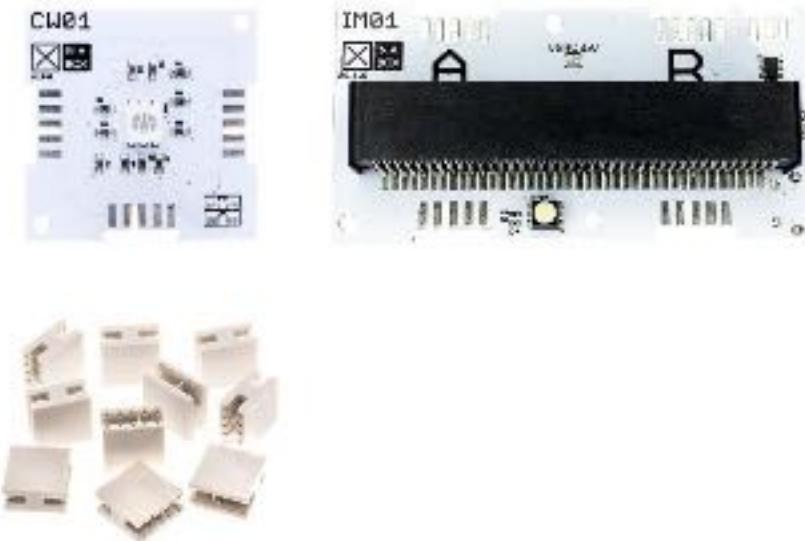
Company: XinaBox



URL: xinabox.cc

Connection Type: Uses whole Edge Connector

IoT Kit

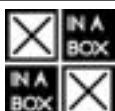


IoT Kit for micro:bit

The XinaBox micro:bit IoT Kit (XK05) includes everything you need to connect your BBC micro:bit to the cloud. It was designed to make it easy for micro:bit users with no prior experience to get started with IoT.

Your micro:bit slides easily into the supplied bridge (the IM01 xChip), then add Wi-Fi by clipping the CW01 xChip onto the bridge using one of the connectors provided. Power it up by plugging a USB cable into the IM01 - the instrument can be built in seconds and no hardware knowledge is required. It's just as easy to code it too: load the CW01 extension into MakeCode and use block coding to turn your XK05 + micro:bit into a smart IoT edge device.

Company: XinaBox



URL: xinabox.cc

Connection Type: Uses whole Edge Connector

Smart Car with IR and APP



Smart Car with IR and APP

Yahboom micro:bit smart robot is developed with the most popular micro:bit board as the core controller. Using micro:bit dot matrix screen as the body, the entire vehicle adopts elaborate metal motor, high-quality battery and firm bracket to create a compact and beautiful appearance. And it is controlled by Android mobile App remote controller connecting with Micro:bit onboard Bluetooth. We also offer three kinds of comprehensive courses: simple development board experiments, more complex expansion board experiments, and interesting smart robot experiments. It is the best choice for all makers, educators, and amateurs.

Company: Yahboom



URL: yahboom.net

Connection Type: Uses whole Edge Connector

Building:bit Starter Kit



Building:bit Starter Kit

This programmable building block kit includes micro:bit board, micro:bit expansion board, battery, motor, and other electronic components, and more than 260 building blocks. We also provide a building block assembly manual that provides the steps to assemble into 9 different building blocks.

Company: Yahboom



URL: yahboom.net

Connection Type: Uses whole Edge Connector

HelloBot STEM smart robot car



HelloBot STEM smart robot car

This is a mobile programming robot platform based on BBC original micro:bit development board. We have designed three different shapes for this robot: basic model, clip model, and lift model. The Hellobot programmable robot is designed for teenagers over 10 years old. It is easy to install with a screwdriver. The whole vehicle adopts the design of the reverse connection socket, and the custom cable and the network cable port to ensure connection is simple and safe.

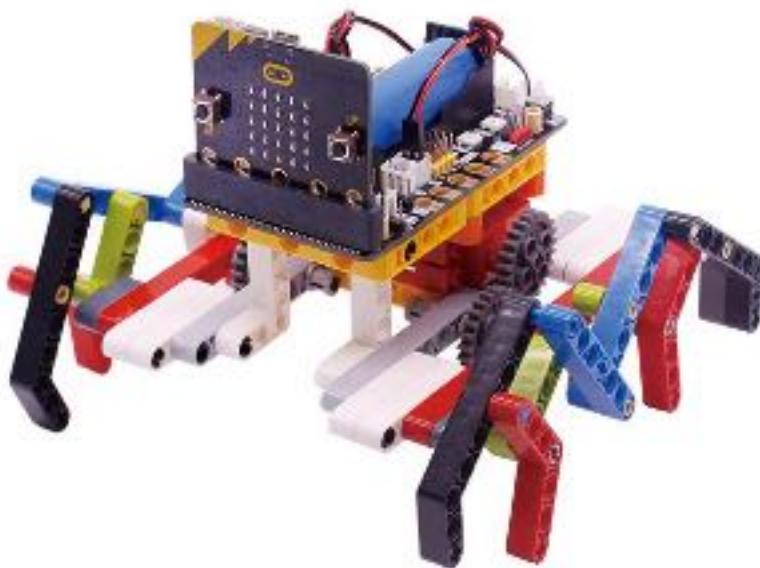
Company: Yahboom



URL: yahboom.net

Connection Type: Uses whole Edge Connector

Spider:bit



Programmable Spider:bit

Super:bit expansion board with 142 blocks and 2 building blocks servos, can be built into the shape of a spider. It can make spiders live with a mobile phone remote control APP. You can control the spider to move forward and backward, turn left and right, tweet, RGB color change, etc. Super:bit building blocks with micro:bit board also has a variety of programming methods, support for simple and fun MakeCode Editor graphical programming. In addition to the standard shape Super:bit building block spiders, you can also use the built-in building blocks to build more interesting shapes, such as "building blocks swimming machine". You can let the "swim machine" keep moving after starting the circuit.

Company: Yahboom



URL: yahboom.net

Connection Type: Uses whole Edge Connector

BBC micro:bit professional expansion board



BBC micro:bit professional expansion board

This expansion board is designed specifically for micro:bit. It is 90 degrees with micro:bit, which is more stereoscopic after insertion. Compared with the traditional horizontal expansion board, this expansion version is more suitable for DIY robots, cars and other works. The three-dimensional shape makes the micro:bit face to you.

The micro:bit expansion board integrates two high-power RGB colorful searchlights and three SMD RGB programming lights. The 5 LED lights are all brightly lit, and the lighting effect is cool in a dark environment.

Company: Yahboom



URL: yahboom.net

Connection Type: Uses whole Edge Connector

Piano Expansion Board



Piano Expansion Board

This is a compact micro:bit piano expansion board, its design is inspired by the piano. It possesses 7 white note buttons, 5 black note buttons, 3 pitch buttons to switch high, medium and low tone, and 3 programmable RGB lights. It also equipped with a passive buzzer and audio output interface to support the connection of audio equipment and headphones. We also designed the blocks in this piano board. Users can control it by graphical programming and build different shapes with building blocks.

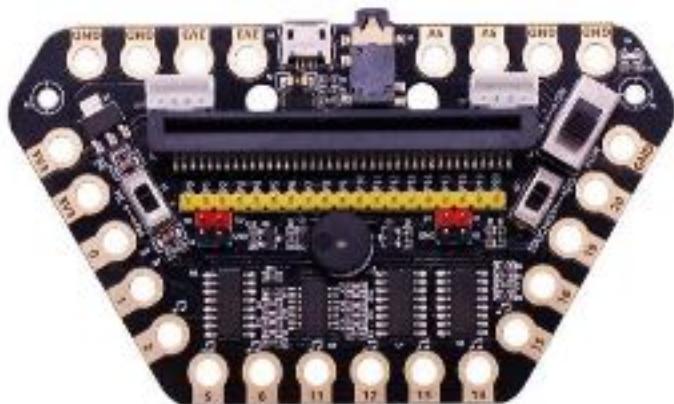
Company: Yahboom



URL: yahboom.net

Connection Type: Uses whole Edge Connector

Alligator clip expansion board



Alligator clip expansion board

The biggest feature of this adapter board is the expansion of 13 interfaces that do not conflict with the micro:bit development board IO port. It can be used for external alligator clips for various DIY experiments. Not only that, but it also integrates a micro:bit slot, passive buzzer, headphone jack and LEGO hole. Therefore, this adapter board is a must for DIY enthusiasts.

Available in basic and advanced versions.

Company: Yahboom



URL: yahboom.net

Connection Type: Uses whole Edge Connector

LED:bit



LED:bit dot matrix module for micro:bit

This is a module that integrates two 8x8 dot matrix screens, supporting the display of letters, expressions, patterns, and more. The 4Pin alligator clip interface is designed on the bottom of the dot matrix, the 4Pin pin header interface is designed on the back, and the 4Pin DuPont line interface is reserved on the front side (the default is not soldered). Users can use these interfaces to match the alligator clip, cable, DuPont line and other electronic Device to complete IIC communication. And it also has two building block pin holes, which can be compatible with the building blocks to match different interesting structure shapes. You can also use it with our other expansion boards to create more interesting micro:bit experiments.

Company: Yahboom



URL: yahboom.net

Connection Type: Crocodile clips

zbit:builder



zbit:builder for the BBC micro:bit

zbit:builder provides a grid of up to 20x11 holes for you to build your own electronics for the micro:bit. This grid consists of a central area of 14x9 holes for soldering your components surrounded by holes giving access to all of the micro:bit's GPIO and power rails.

zbit:builder has been designed to make it easy for you to build boards using a vast range of Sensors, Display Boards and wireless functions such as WiFi and GPS (available from various companies) which can then be attached to your micro:bit!

Like all 'zbit:connect' family boards, zbit:builder uses the unique 'zbit:connector' which allows it to be simply 'bolted' on to the bottom of your micro:bit!

Furthermore the micro:bit compatible edge connector allows it to be plugged into other micro:bit accessories or attached to more zbit:connect boards!

Company: zbit:connect

 **zbit:connect**

URL: <http://www.zbit-connect.co.uk/>

Connection Type: Uses whole Edge Connector

zbit:toolbelt



zbit:toolbelt for the BBC micro:bit

zbit:toolbelt provides a 40 pin connector into which you can plug a range of Sensors, LEDs and zbit:toolkit boards.

Boards in the zbit:toolkit range include zbit:headphones, zbit:shaker, zbit:power and zbit:logic:probe.

Experiment by connecting extra electronic components to your micro:bit and control them from your code.

Like all ‘zbit:connect’ family boards, zbit:toolbelt uses the unique ‘zbit:connector’ which allows it to be simply ‘bolted’ on to the bottom of your micro:bit!

Furthermore the micro:bit compatible edge connector at the bottom allows it to be plugged into other micro:bit accessories or attached to more zbit:connect boards!

Company: zbit:connect

 zbit:connect

URL: <http://www.zbit-connect.co.uk/>

Connection Type: Uses whole Edge Connector

zbit:PiDapter and Raspberry Pi



zbit:PiDapter and Raspberry Pi for the BBC micro:bit

zbit:PiDapter connects the micro:bit's GPIO to the Raspberry Pi GPIO with your micro:bit plugged directly onto the 40 way GPIO Header of the Raspberry Pi thus allowing you to control your Raspberry Pi from your micro:bit!

For instance you could create a tilt controlled Raspberry Pi game by programming the micro:bit to send 'tilt' signals to the Raspberry Pi via GPIO from the micro:bit's accelerometer sensor.

Or you could create a remote controller for your Raspberry Pi by using a second micro:bit to send radio commands to the micro:bit on your Raspberry Pi.

Like all 'zbit:connect' family boards, zbit:PiDapter uses the unique 'zbit:connector' which allows it to be simply 'bolted' on to the bottom of your micro:bit!

Furthermore the micro:bit compatible edge connector allows it to be plugged into other micro:bit accessories or attached to more zbit:connect boards!

Company: zbit:connect

 **zbit:connect**

URL: <http://www.zbit-connect.co.uk/>

Connection Type: Uses whole Edge Connector

zbit:speaker



zbit:speaker for the BBC micro:bit

zbit:speaker provides an on-board 8 Ohm 300mW Loudspeaker with Volume Control and Headphones Socket so that your micro:bit can generate sound effects. You can generate sound effects via the on-board Loudspeaker or via Headphones. For louder sound effects plug a pair of PC Speakers into the Headphones Socket. Or for wireless sound effects plug a Bluetooth Audio Transmitter into the Headphones Socket!

Like all 'zbit:connect' family boards, zbit:speaker uses the unique 'zbit:connector' which allows it to be simply 'bolted' on to the bottom of your micro:bit!

Furthermore the micro:bit compatible edge connector allows it to be plugged into other micro:bit accessories or attached to more zbit:connect boards!

Company: zbit:connect

zbit:connect

URL: <http://www.zbit-connect.co.uk/>

Connection Type: Uses whole Edge Connector