micro:bit is a tiny programmable computer, designed to make learning and teaching easy and fun!
Kitronik Inventor’s Kit

This Inventor’s Kit contains everything you need to complete 10 experiments including using LEDs, motors, LDRs and capacitors and step-by-step tutorial book. No soldering required.

Elecfreaks Expriment Box

This kit includes traditional components such as the temperature sensor, photocell, servo, motor and LEDs. But we also added electronic components such as the MOSFET transistor, different values of resistors, and a trimpot to combine circuit design with programming.

Monk Makes Electronics Kit

With this kit, you get everything you need to start learning about connecting electronics to your micro:bit in an accessible and easy manner. Everything is connected using the supplied alligator clips, so no soldering required.

Elecfreaks Smart Home Kit

The Smart Home Kit is a great product for making smart home-based projects with the micro:bit. The carefully selected components are commonly used in home automation, including items such as: TMP36 temperature sensor, sound sensor, crash sensor, servo and motor.

Elecfreaks Tinker Kit*

A set of accessories for the BBC micro:bit, which enables you to connect all kinds of modules easily without the need for breadboard wires!

SparkFun Gator Kit

All the components of this kit connect quickly and easily with alligator clips. Spend less time connecting and more time creating.

SparkFun gator:bit v2.0

The SparkFun gator:bit v2.0 is an all-in-one “carrier” board for your micro:bit that provides you with a fully functional development and prototyping platform.

Kitronik Discovery Kit

A great way to get started with both programming and electronics. The Kit contains five experiments that start very simply, building up to simulating real world systems as confidence grows.

SparkFun Arcade Kit

Inside each Arcade Kit you will find all the components required to build your micro:bit into a full-fledged game system. Simply add your own micro:bit and you will be ready to start playing.
DF Robot micro: Maqueen

The DF Robot micro: Maqueen Robot is a graphical programming robot for STEM education, which inherits playability and simple operation of a micro:bit.

Kitronik :Move mini Buggy

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 BBC micro:bit as a controller via the micro:bit's radio functionality.

4tronix Bit:Bot XL

Requires no soldering, no wires and nothing more than a screwdriver to complete it. The Bit:Bot fully engages children and adults alike, allowing you to explore and code the BBC micro:bit using any of the languages available.

Monk Makes Animatronic Head

This kit provides everything you need to make a talking animatronic head. Its eyes move and the head speaks from a Monk Makes Speaker for the BBC micro:bit.

Kitronik MeArm Kit

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 and use.

Kitronik Linear Actuator

Converts the circular movement of a 180 degree servo (supplied) into motion in a straight line, one way and then the other. It can be mounted to a project to provide either horizontal or vertical movement.

DF Robot Max:Bot

An entry-level DIY robot that maximizes children’s creativity.

The Max:Bot can be programmed with Scratch, MakeCode block editor, Python or JavaScript.

ElecFreaks Joystick:bit

ElecFreaks Joystick:bit is a game joystick for the BBC micro:bit. On the board, it has an integrated joystick and 6 undefined keys.

CD-Soft DIY Flute Bot

Ever wanted to create your own drivable bot for your BBC micro:bit? The DIY Flute Bot contains everything you need to do just that.
**Feetech Micro Servo - FS90R 360 Degree Continuous Rotation**

**Feetech Micro Servo - FS90 180 Degree Rotation**

**MOTION**

**Monk Makes Servo**

The Monk Makes Servo for micro:bit board provides a really easy way to attach up to three servomotors to a BBC micro:bit. It includes a voltage regulator that will supply 3V back to the micro:bit, so that you don’t have to power it separately.

**Monk Makes Servo Kit**

The Monk Makes Servo Kit for micro:bit makes it easy to connect up to 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!

**Elecfreaks Smart Car Kit**

Create your own mBot robot! The Smart Car Robot Kit is a smart car which is based on the BBC micro:bit and the mBot Robot Board.

**Kitronik 16 Servo Driver Board**

Take your robotics project to the next level with the (I2C) Kitronik 16 Servo Driver Board for the BBC micro:bit. Capable of controlling 16 servos which are powered directly from the board’s power supply.

**Elecfreaks Motor:bit**

Elecfreaks Motor:bit is a special kind of motor drive board for the BBC micro:bit. It has an integrated motor drive chip TB6612, which can drive two DC motors with 1.2A max single channel current. You can plug various sensors into it directly.

**Kitronik Motor Driver Board**

This board provides a simple way to add motor driving capability to a BBC micro:bit. It allows two motors to be driven with full forward, reverse & stop control.

**Kitronik Servo:Lite Board**

The Servo:Lite board for the BBC 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 BBC micro:bit.

**Kitronik Line Following Buggy**

The newest version of our very popular line following buggy. Not only does it provide far superior line following it also makes the kit much easier to assemble.
**EXPRESSION**

**Kitronik :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. It is a character LCD showing 32 characters (2 lines of 16).

**Kitronik :GAME ZIP 64**

The ultimate retro gaming accessory for the BBC 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.

**Elecfreaks Wukong Board with Lego Holder**

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

**Monk Makes Relay for the BBC micro:bit**

The Monk Makes Relay for the BBC micro:bit is a solid-state (no moving parts) relay that allows an output of a micro:bit to turn things on and off.

**Elecfreaks mBot Robot Board**

Convert your mBot V1.1 from Arduino to a micro:bit controller with the Elecfreaks mBot Robot Board.

**Kitronik RTC Board**

If you haven’t yet got the time for your BBC micro:bit projects, the Kitronik RTC Board has come to the rescue! Add Real Time Clock capabilities to the BBC micro:bit with the Kitronik RTC Board.
### SparkFun gamer:bit

The SparkFun gamer:bit is a fun-filled “carrier” board for the micro:bit that, when combined with the micro:bit, provides you with a fully functional game system.

### Kitronik :Create Proto Board

The :CREATE Proto Board for BBC micro:bit is an electronics prototyping system that allows for both through hole and SMT component types in the same circuits.

### Kitronik :Game Controller

A retro gaming accessory for the BBC 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.

### Kitronik All-in-one Robotics Board

Enables the BBC micro:bit to drive 4 motors (or 2 stepper motors) and 8 servos. Coupled with 17 other I/O expansion points, this means the BBC micro:bit can very easily become the core of a whole variety of robotics projects.

### Kitronik Interface Board

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

### Kitronik 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.

### Kitronik Klima:te Board

A Real Time Clock and environmental sensor interface for the BBC 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.

### Kitronik Terminal Block Breakout

Breaks out all of the signal and power pins on the microbit 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.

### Elecfreaks Breadboard Adapter

Elecfreaks Breadboard Adapter is a breadboard pinboard created for the BBC micro:bit. It can be directly plugged into a breadboard.
Kitronik STOP:bit

The STOP:bit is a bolt-on/clip-on board for the BBC micro:bit replicating a traffic light. It has 3x 10mm diameter LEDs. Each of these LEDs is driven from one of the BBC micro:bit IO pins.

Kitronik LAMP:bit

The LAMP:bit features connections which allow the microbit to be bolted/clipped directly to it. It 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.

Kitronik 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.

Kitronik 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!

Kitronik ZIP Halo

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.

Kitronik ZIP Hex LED (5 Pack)

The Kitronik ZIP Hex LED has a single RGB LED which can be controlled with a Microprocessor to produce a full spectrum of colours.

300 Piece LED Kit

Includes
- 5 colours: red, yellow, blue, green, white.
- 2 sizes: 3mm 40 pieces per colour and 5mm 20 pieces per colour

Monk Makes RGB LED

The Monk Makes RGB LED provides a colorful add-on to your BBC micro:bit. Connect it up with alligator clips and then use the three outputs of your micro:bit to control the red, green and blue channels to mix up any color of light you want.

Monk Makes 7-Segment Display

The 7-segment is a four digit 7-segment display for the micro:bit. You can use it to display numbers, letters and other characters, albeit with the limits imposed by the 7 segments of each digit.
Kitronik ZIP Stick - 5 ZIP LEDs

Each of our new ZIP sticks has five individually addressable RGB LEDs. Each LED can be controlled independently and all LEDs are connected using the same three wire bus.

Kitronik ZIP Arcs

12 ZIP LEDs

15 ZIP LEDs

Kitronik ZIP Circle - 12 ZIP LEDs

Each LED can produce a full spectrum of colours independent to all of the other LEDs on the bus. Each has a Red, Green and Blue element within the LED, and each of these can achieve 256 levels of brightness. This results in 16,777,216 possible output colours.

Kitronik 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.

DF Robot Circular RGB LED Expansion Board

This board can be a cool clock, a timer, a Lucky Turntable Game, a wearable ornament, and an interactive coloured pendant. With a micro:bit main board, this 24 RGB LEDs circular expansion board changes to an exquisite creator's piece.

ElecFreaks Rainbow LED Christmas Tree

The Rainbow LED Christmas Tree with 6 code-able LEDs, can help you to decorate a beautiful Christmas night.

Kitronik Electro-Fashion Sewable ZIP LED (10 Pack)

Add an individually addressable full colour LED to your E-Textiles projects with the Kitronik Sewable ZIP LED, which can be controlled by the BBC micro:bit.

Kitronik Electro-Fashion E-Textiles Kit

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

Wearables Class Kit

Just add craft materials such as felt, card, safety pins, paper clips... and imagination... to learn about simple circuits, electronics, design thinking, problem-solving and making stuff!
SparkFun weather:bit

With the weather:bit you will have access to barometric pressure, relative humidity and temperature readings. There are also connections on this carrier board to optional sensors such as wind speed, direction, rain gauge and soil readings!

Monk Makes CO2 Sensor

The Monk Makes CO2 Sensor provides CO2, temperature and Relative Humidity measurements to a BBC micro:bit.

Monk Makes Sensor Board

The Monk Makes Sensor Board for micro:bit allows you to sense sound levels, temperature and light levels. 3V and GND connections can be made from either side and allow you to power a second board.

SparkFun gator:soil moisture sensor

Consists of two probes and three pads (PWR, GND, and SIG). The probes are used to measure the conductivity of the soil. SIG provides an analog voltage out that can be attached to an ADC pad on the gator:bit v2.0.

Elecfects Sonar:bit

The Sonar:bit is an ultrasonic module with a 3-5V working voltage and a 4cm-400cm measurement range. It can output a stable and accurate measurement of data with a ±1cm tolerance.

Elecfects Sensor:bit

The Sensor:bit is a breakout board designed for use with the BBC micro:bit. With this board, you can extend various 3V electric brick modules like LED lights, photocells, etc.

Monk Makes Speaker for micro:bit

The Monk Makes 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.

Kitronik 0.25W 8 Ohm 40mm Thin Speaker

This is the perfect speaker for projects that produce sound but where space is tight or where the speaker needs to be discreet. speaker will do an admirable job.

Audio Cable for micro:bit

This is the perfect cable choice for those that want to output music or general sound for the BBC micro:bit, to either headphones or speakers. At one end of the cable are the black and red crocodile clips, which connect to the microbits GND and Pin 0 respectively. At the other end of the cable is a 3.5mm stereo jack.
Kitronik :KLEF Piano

Compose a monophonic microbit musical masterpiece with the Kitronik :KLEF Piano for the BBC 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.

More Info

3V Piezo Buzzer

The 3V Piezo Buzzer is a high-performance buzzer with pin terminal/lead, low frequency tone, 70dB sound level and 2kHz resonant frequency. It features extremely low power consumption, high sound pressure and can be used with automated inserters.

More Info

Elecfreaks Snowflake Buzzer

The snowflake buzzer is a symbol of christmas day’s snow. The snowflake buzzer is just like snow, comes in this christmas night and play the christmas music.

More Info

Cables & Cages

- Alligator Clips with 2.1 DC Power plug
- USB to Micro Braided Cable (100cm)
- 2x AAA Battery Cage with JST connector & switch
- Alligator Clips & Lead -10 Pack

More Info

CR2032 Coin Battery

A non rechargeable lithium coin cell battery.
- Battery voltage of 3V
- Battery capacity of 210mAh
- Battery weight is 3.2g

More Info

Pro-Elec Alkaline Batteries

Alkaline batteries providing long lasting, dependable power across a wide range of everyday applications.
- Non-rechargeable, mercury and cadmium free
- 6 Year shelf life

More Info

Kitronik Mi:power board

The Mi:power board for the BBC 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.

More Info

Elecfreaks Power Supply Module

The BBC micro:bit Power Supply Module, with an output voltage of 3.3v can be connected directly to the battery connector of your micro:bit, providing a strong and steady power supply.

More Info

Monk Makes Charger Kit

A LiPo battery and charger board that charges automatically while you use your micro:bit! This neat solution to your micro:bit’s power needs comes with an acrylic layer enclosure to protect your micro:bit and the Charger for micro:bit.

More Info
Elecfreaks Clear Case

Elecfreaks Clear Case is a transparent shell box for BBC micro:bit. You can see from the picture that the micro:bit board is wrapped in two transparent acrylic boards.

Kitronik Mi:pro Case

Keep your BBC micro:bit safe and secure with this compact, portable protective case where the 2xAA battery pack can be bolted to the back, making a compact and portable unit.

Kitronik Mi:pro Case for the 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.

BBC micro:bit

The BBC micro:bit is a pocket-sized codeable computer which is super easy to use and can be coded with JavaScript, MicroPython, Microsoft Block Editor and Microsoft Touch Develop.

BBC micro:bit EX

The BBC micro:bit Go is great but we know you need a little extra at times, so we have put together the BBC micro:bit EX.

Contains the micro:bit board, 4x batteries, a 1m USB cable and a battery cage.

BBC micro:bit Go

A bundle which has everything you need to start having fun with your BBC micro:bit.

Contains the micro:bit board, 2x batteries, an 8cm USB cable and a battery cage.

BBC micro:bit STEM Class Set

Once your students have built the eight guided projects they’ll have at their disposal all the tools and equipment they need to develop their own projects.

Kitronik Inventor’s Kit & BBC micro:bit Go Bundle

A Bundle which contains 1x Kitronik Invento’s Kit and 1x BBC micro:bit Go to get your prototyping started quickly and with ease.

Kitronik Inventor’s Kit & BBC micro:bit EX Bundle

A Bundle which contains 1x Kitronik Invento’s Kit and 1x BBC micro:bit EX to get your prototyping started quickly and with ease.