micro:bit is a tiny programmable computer, designed to make learning and teaching easy and fun!

INCREASE IN GIRLS

70% saying they would definitely do ICT/Computer Science as a subject option after using micro:bit
Kitronik Inventors 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.

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.

Boson Starter Kit

DF Robot's Boson Starter Kit for micro:bit includes 8 well selected modules, covering most popular digital and analogue sensors and actuators, supporting sound, light and motion interaction.

SparkFun Weather Station

The SparkFun Weather Station is a full weather station kit that is built on top of the weather:bit carrier board. The kit does not require any soldering and is recommended for anyone curious about weather-sensing technology or the BBC micro:bit.

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 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!

DF Robot Boson Expansion Board

Comes with 6 fool-proof 3-Pin sockets, compatible with hundreds of DF Robot's Boson modularized electronic blocks, covering popular digital and analog sensors and actuators, supporting sound, light and motion interaction.

SparkFun Breakout Board

This breakout boards edge connector allows intermediate and advanced users to connect the micro:bit to breadboards and other sensors, motors, LEDs and more!

ElecFreaks Breadboard Adapter

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

More Info

Elecfreaks Breadboard Kit

Includes a breadboard, breakout board and a USB cable. Perfect for quick prototyping.

More Info

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.

More Info

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.

More Info

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.

More Info

Elecfreaks Edge:bit

The Edge:bit is a breakout board for protecting your micro:bit’s 20 pin edge connector. The specially designed golden finger brings more convenience to the BBC micro:bit’s extensions.

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

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

FreeCall 1800 634 050
info@cdsoft.com.au • www.cdsoft.com.au
**BBC micro:bit Accessory Guide**

### 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

### 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.

### Elecfreaks 3V Vertical Water Pump
The Elecfreaks 3V Vertical water pump is a kind of DC micro submersible pump. Equipped with male and female Dupont line connectors, it can apply to the fountain used in many situations with much convenience.

### 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 microbits radio functionality.

### 4tronix Bit:Bot
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.

### 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.

### 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.

### SparkFun moto:bit
The moto:bit offers a simple, beginner-friendly robotics controller capable of operating a basic robotics chassis. Onboard each moto:bit are multiple I/O pins capable of hooking up servos, sensors and other circuits.

### 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.

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**MOTION**

- **Feetech Micro Servo - FS90R 360 Degree Continuous Rotation**
- **Feetech Micro Servo - FS90 180 Degree Rotation**
- **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.
- **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.

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

**SENSOR**

- **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 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.
- **Elecfreaks 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.
<table>
<thead>
<tr>
<th>Product Name</th>
<th>Description</th>
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<tbody>
<tr>
<td>Monk Makes CO2 Sensor</td>
<td>Provides CO2, temperature and Relative Humidity measurements to a BBC micro:bit.</td>
</tr>
<tr>
<td>SparkFun Soil Moisture Sensor</td>
<td>A simple breakout for measuring the moisture in soil and similar materials.</td>
</tr>
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<td>Elecfreaks Sensor:bit</td>
<td>A breakout board designed for use with the BBC micro:bit.</td>
</tr>
<tr>
<td>Kitronik ZIP Halo</td>
<td>Has 24 ZIP LEDs, which are individually addressable full colour LEDs.</td>
</tr>
<tr>
<td>300 Piece LED Kit</td>
<td>Includes 5 colours: red, yellow, blue, green, white. 2 sizes: 3mm 40 pieces per colour and 5mm 20 pieces per colour.</td>
</tr>
<tr>
<td>Monk Makes 7-Segment Display</td>
<td>A four digit 7-segment display for the micro:bit.</td>
</tr>
<tr>
<td>Monk Makes RGB LED</td>
<td>Provides a colorful add-on to your BBC micro:bit.</td>
</tr>
<tr>
<td>Kitronik STOP:bit</td>
<td>A bolt-on/clip-on board for the BBC micro:bit replicating a traffic light.</td>
</tr>
<tr>
<td>Kitronik Electro-Fashion Sewable ZIP LED (10 Pack)</td>
<td>Add an individually addressable full colour LED to your E-Textiles projects.</td>
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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.

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.

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 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.

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.

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.

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.

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.

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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

Kitronik Mi:pro Case for the Mi:power board

Wear:it 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.

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 microbit.

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!

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 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 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 with a on/off switch.