

- 1x slot for micro:bit single board computer
- 4x Socket strips
- 1x breadboard (400 slots)
- Solder surface (through-contacted hole pattern)
- 2x 2.8 mm holes for mounting
- AMS1117 voltage regulator

BN 2268138

# Prototype Breakout Board V2 for micro:bit

## GB Operating instructions

### Latest operating instructions

Download the latest operating instructions at [www.conrad.com/downloads](http://www.conrad.com/downloads) or scan the QR code shown. Follow the instructions on the website.



### Delivery contents

- Prototype Breakout Board V2 for micro:bit
- Breadboard

### Description

The micro:bit is a powerful, low-cost, fully programmable single board computer developed by the BBC. It was designed to encourage children to actively engage in technical activities such as programming and electronics.

It features a 5x5 LED matrix, two integrated buttons, a compass, an accelerometer and Bluetooth®.

It supports the graphical programming interface PXT (MakeCode). This can be used on Microsoft Windows®, MacOS, iOS, Android™ and many other operating systems without downloading an additional compiler.

The additional board has been specially developed for the micro:bit single board computer. The board guides the pins of the micro:bit onto socket strips.

A breadboard can be glued to the board, which can be used to build your own circuits.

If the breadboard is not glued, a through-hole breadboard is available, onto which a circuit can be soldered.

In addition, the board has a voltage regulator which allows the micro:bit and the experiment circuit to be externally supplied with a voltage of 5 to 9 V/DC.

Bluetooth® is a registered trademark of Bluetooth SIG, Inc.

### Requirements

The following components are required to use the board: 1 micro:bit, e.g. Conrad item no.: 2253828

Optional: Mains adapter (5 - 9 V/DC, 500 - 800 mA).

### Hardware

The pin assignment of the inputs/outputs corresponds to the markings on the circuit board.

### Operation

Insert the micro:bit into the slot provided on the circuit board. The 5x5 LED matrix must be aligned in such a way that you can read the markings on the circuit board.

When using this circuit board, the micro:bit can be supplied with power via USB or the battery holder.

Alternatively, the breakout board can also be powered via the DC socket. The voltage range is 5 to 9 V/DC.

### Disposal



Electronic devices are recyclable waste and must not be placed in household waste. At the end of its service life, dispose of the product in accordance with the applicable regulatory guidelines.

You thus fulfil your statutory obligations and contribute to protection of the environment.

### Specifications

Operating voltage .....	5 - 9 V/DC
Pin spacing of socket strip (width) .....	2.54 mm
Pin spacing of breadboard (width) .....	2.54 mm
Dimensions (W x H x D) .....	86 x 12 x 105 mm
Weight (incl. breadboard) .....	79 g

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