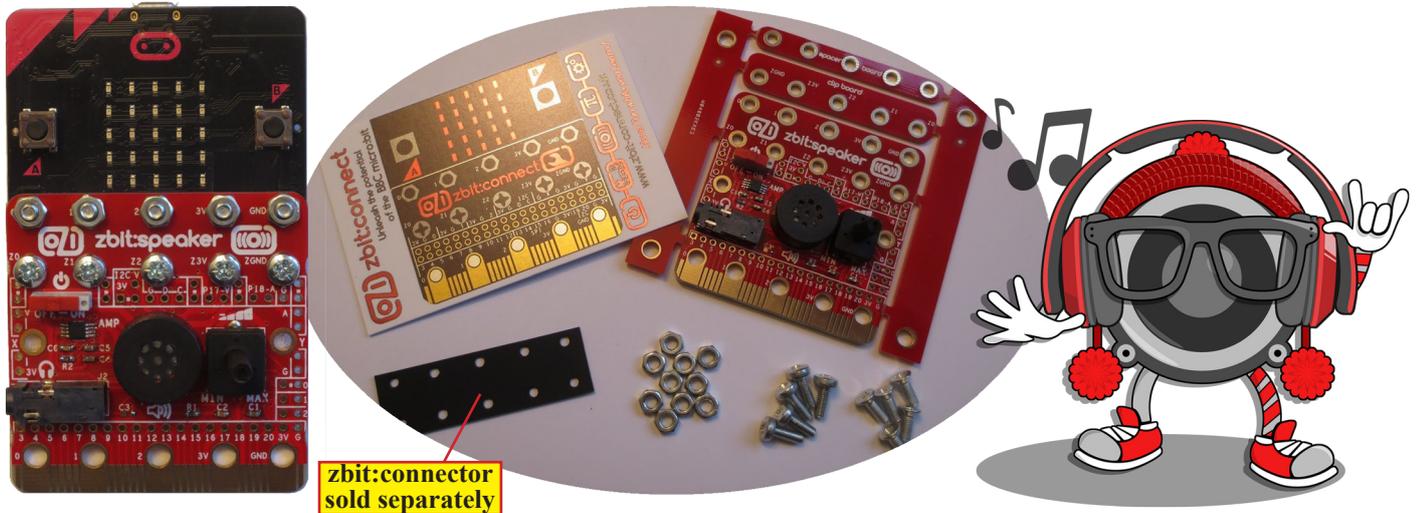


zbit:speaker

for the BBC micro:bit



**Generate Sound Effects from your BBC micro:bit
with zbit:speaker!**

"Have Fun while you Learn!"

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

www.zbit-connect.co.uk

zbit:speaker Data Sheet (Preliminary)

Contents

- 1 x zbit:speaker board
- 1 x Spacer board
- 1 x Clip board
- 1 x XSpacer board
- 1 x XY board
- 5 x M3x8 Panel Head Screws
- 5 x M3x8 Countersunk Head Screws
- 10 x M3 Nuts

(zbit:connector - optional extra - sold separately*)

***A zbit:connector is not normally required as board only connects to P0**

For more information see 'zbit:connect family guide'

Features

The **zbit:speaker** board has the following features:-

- **52x55mm PCB ('full size' zbit:connect board)**
- **8 Ohm 300mW Loudspeaker**
- **Volume Control**
- **3.5mm Headphones Socket**
- **Audio input** from **P0** by default (but can be strapped to use **P1** or **P2**)
- **zbit:connector compatible** edge connector at the top
- **micro:bit compatible** edge connector at the bottom
- **Top Row Header** for connection to P0, P1, P2, I2C, 3V, GND, X & Y
- **Bottom Row Header** for connection to P3-20, 3V & GND
- **Z0, Z1, Z2, Z3V & ZGND Fixing Holes**
- **X & Y Fixing Holes**
- Connects to other **full size or half size zbit:connect boards** in X, Y or Z axis
- Can be plugged into **micro:bit accessories from other companies**

Tools Required

- Pozidrive Screwdriver
- Pliers
- Small File
- ***No soldering required for normal operation***

Assembly Instructions

- Visit www.zbit-connect.co.uk

WARNING!
CONTAINS SMALL PARTS
SO IS NOT SUITABLE FOR
CHILDREN UNDER 3 YEARS



**SOLDERING SHOULD BE
SUPERVISED BY AN ADULT**