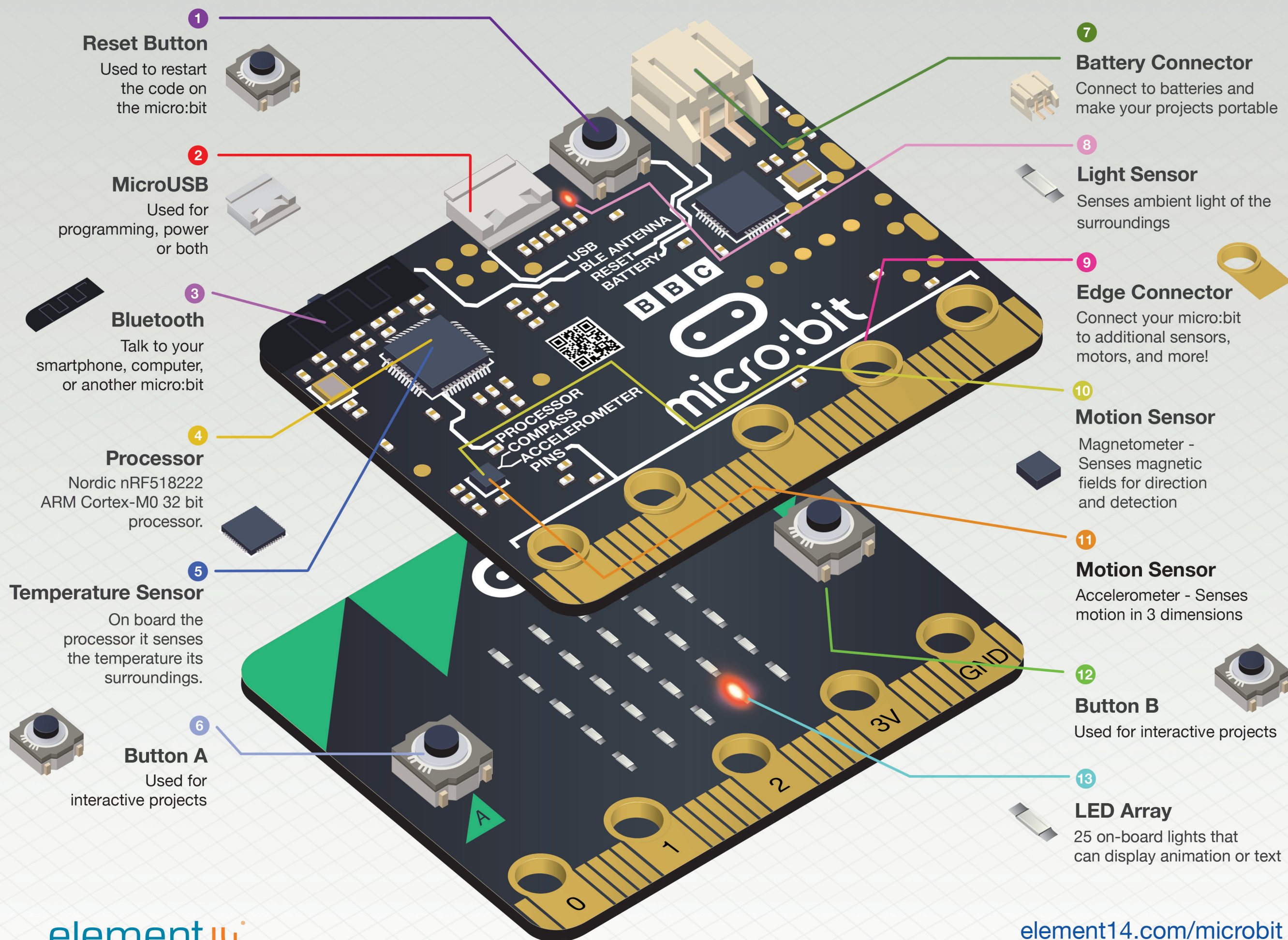# The micro:bit

A pocket-sized, codeable ARM based computer designed for computer education. With a built-in compass, motion detection and Bluetooth technology. With an ambition to inspire digital creativity to develop a new generation of tech' pioneers in collaboration with the element14 Community.

1 Reset Button
Used to restart the code on the micro:bit

2 MicroUSB
Used for programming, power or both

3 Bluetooth
Talk to your smartphone, computer, or another micro:bit

4 Processor
Nordic nRF518222 ARM Cortex-M0 32 bit processor.

5 Temperature Sensor
On board the processor it senses the temperature its surroundings.

6 Button A
Used for interactive projects

7 Battery Connector
Connect to batteries and make your projects portable

8 Light Sensor
Senses ambient light of the surroundings

9 Edge Connector
Connect your micro:bit to additional sensors, motors, and more!

10 Motion Sensor
Magnetometer - Senses magnetic fields for direction and detection

11 Motion Sensor
Accelerometer - Senses motion in 3 dimensions

12 Button B
Used for interactive projects

13 LED Array
25 on-board lights that can display animation or text

element14.com/microbit

PICK YOUR PROJECT

Fitness Tracker
Requires the use of:
- 11 Accelerometer
- 13 LED Array

Gaming
Requires the use of:
- 6 Button A
- 12 Button B
- 13 LED Array

Metal Detector
Requires the use of:
- 10 Magnetometer
- 13 LED Array

Door Bell / Alarm
Requires the use of:
- 3 Bluetooth
- 11 Accelerometer
- 13 LED Array

Robotics
Requires the use of:
- 6 Button A
- 12 Button B
- 11 Accelerometer
- 9 Edge Connector
- 7 Battery
- 3 Bluetooth

element14
AN AVNET COMMUNITY