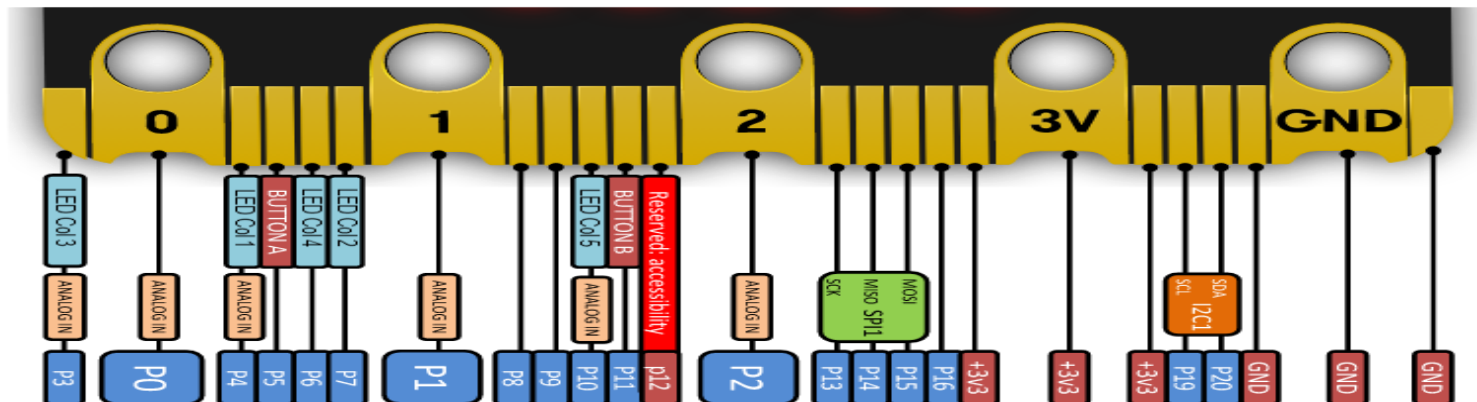
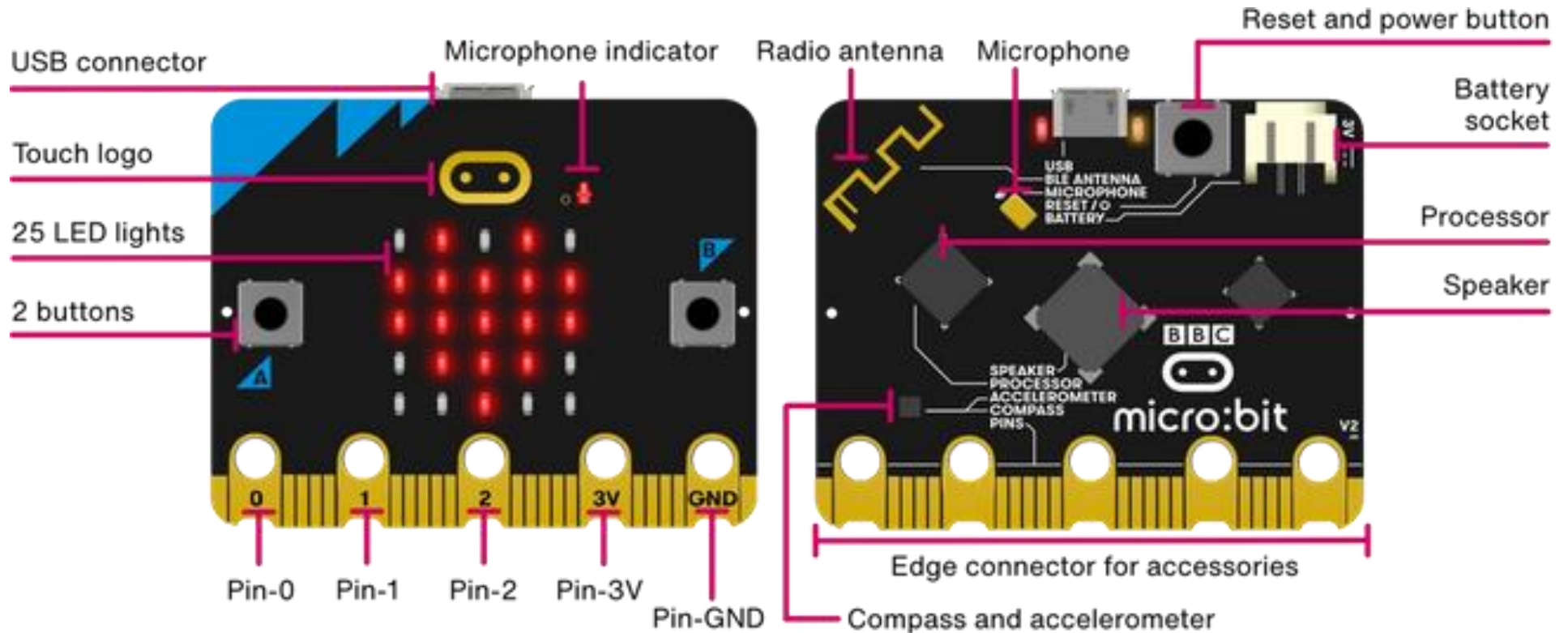
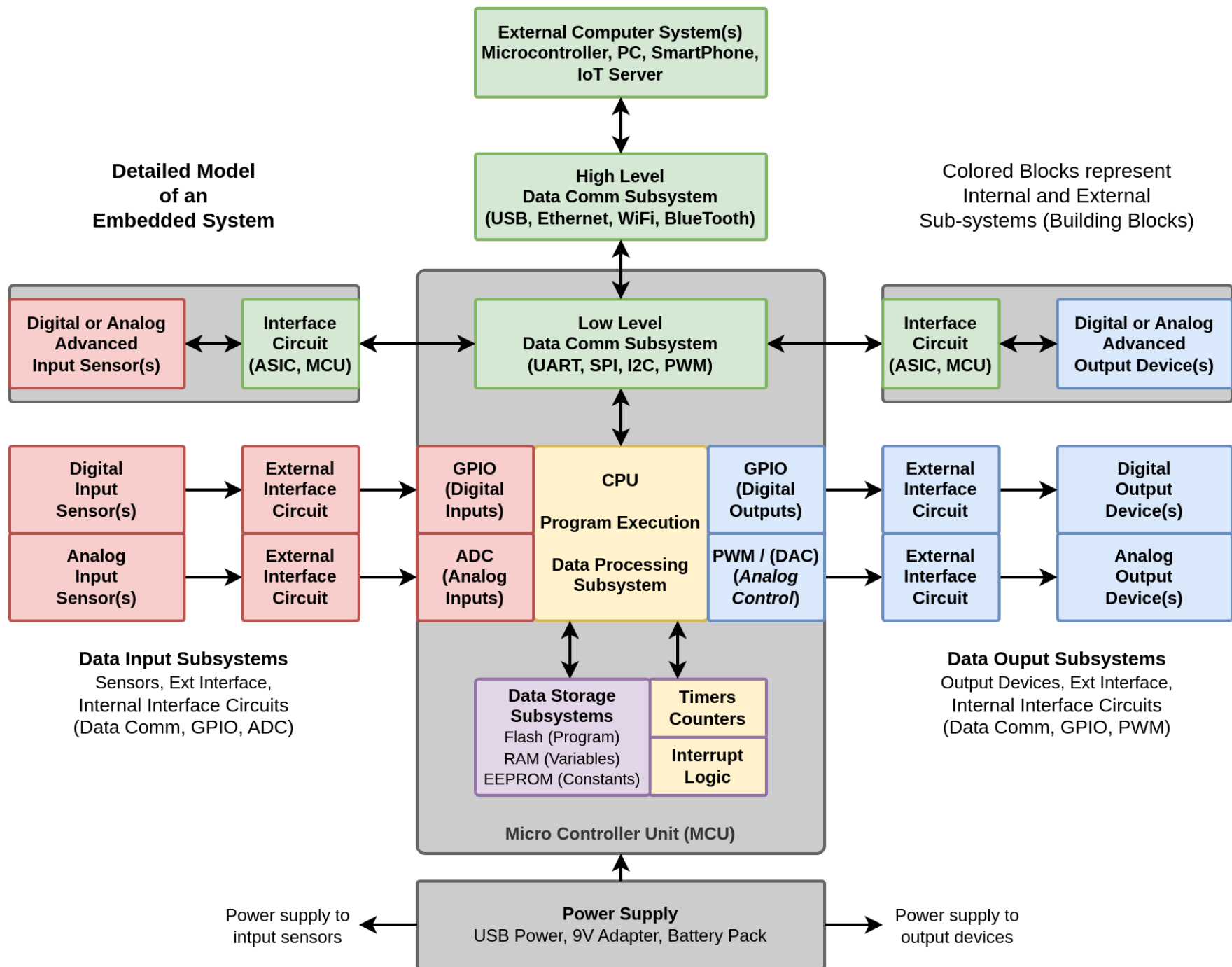


micro:bit v2 Hardware Architecture

<https://microbit.org/get-started/user-guide/overview/>





Data Input Sub-systems:

Advanced input sensors:

- Compass
- Accelerometer

Digital input sensors:

- Buttons A, B
- Touch sensor (logo)

Analog input sensors:

- Microphone
- MCU Temperature Sensor
- Light sensor (25 LEDs)

Data Comm Sub-systems:

High level data comm:

- Radio (RF Comm)
- Bluetooth
- USB

Low level data comm:

- UART, SPI, I2C, PWM

Micro-controller Unit (MCU):

nRF52833 (3.3V, 64 MHz, 32 bit)

Data processing sub-systems:

- Arm Cortex-M4 32 bit CPU with FPU

Data storage sub-systems:

- Flash ROM (512 kB)
- RAM (128 kB)

Data Output Sub-systems:

Digital output devices:

- LEDs (25) (5x5 matrix)

Analog output devices:

- Speaker

Power Supply Sub-systems:

- USB power (5V to 3.3V)
- Battery connector (3V battery)