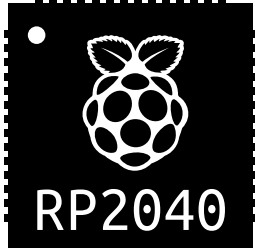**WARNING:** *This is a non-standard pinout diagram. Please double-check the hardware you are using before proceeding with this diagram!*

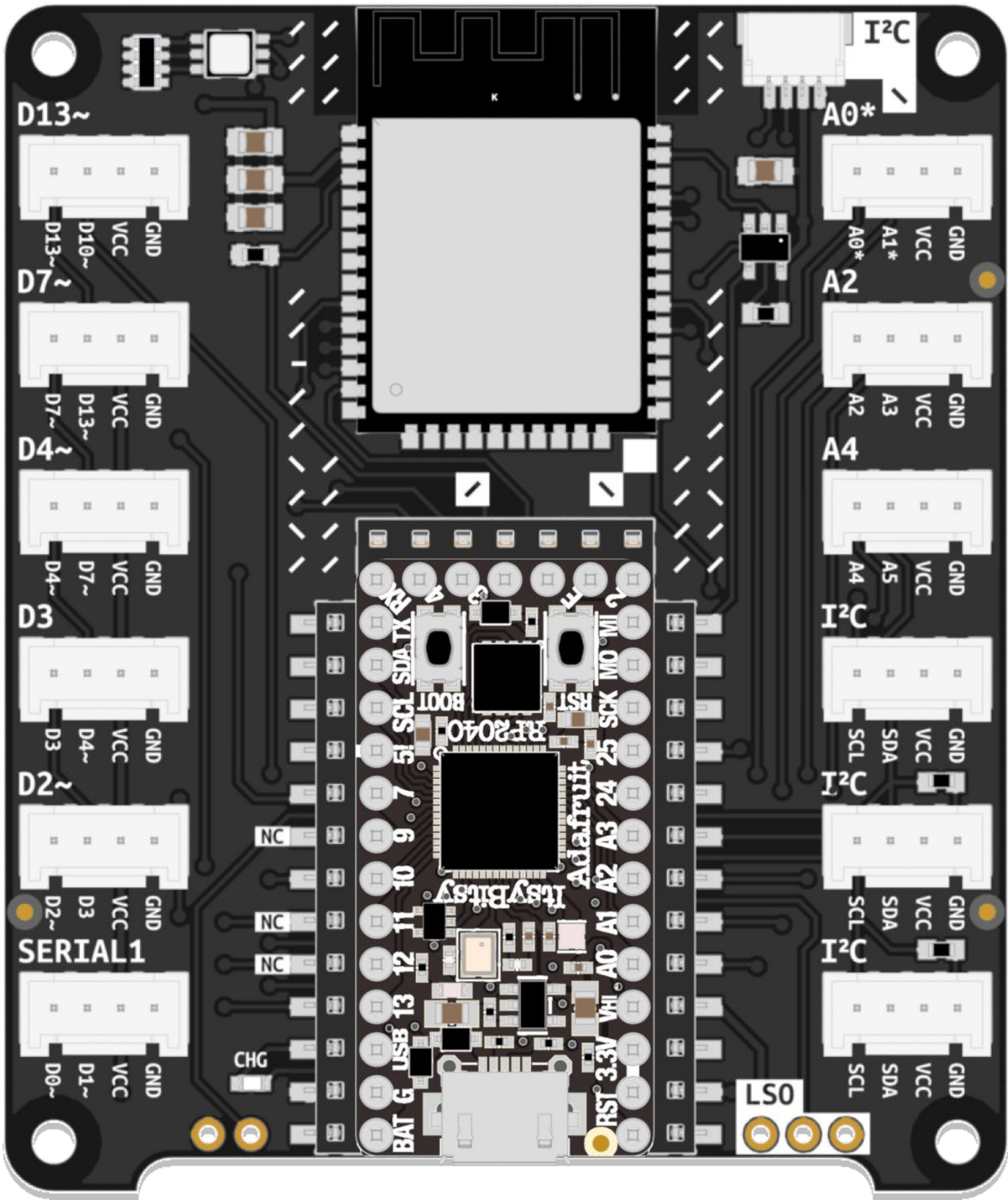# Bitsy Expander M4 Pin Map
Alternative Use with ItsyBitsy RP2040

RP2040

Arduino Name
CircuitPy
Shared Pin
(see note 1)

DIGITAL   ANALOG

I²C

11	8
D13~	D10~

6	11
D7~	D13~

4	6
D4	D7~

5	4
D3~	D4

12	5
D2~	D3~

1	0
RX~	TX

D13~
D10~ VCC GND D13~

D7~
D7~ D13~ VCC GND

D4~
D4~ D7~ VCC GND

D3
D3 D4~ VCC GND

D2~
D2~ D3 VCC GND

SERIAL1
D0~ D1~ VCC GND

CHG

A0*
A0* A1* VCC GND

A2
A2 A3 VCC GND

A4
A4 A5 VCC GND

I²C
SCL SDA VCC GND

I²C
SCL SDA VCC GND

I²C
SCL SDA VCC GND

LS0

26	27
A0*	A1*

28	29
A2	A3

24	25
D24	D25

I²C

I²C

I²C

3	2
SCL	SDA

14
D5~

Notes:

(1) In overlapping (shingled) headers, inner pins are marked grey since they also serve as primary pins in the header above. Usage in one header negates their availability in the other.

(2) Pins marked with a **~** in this diagram may be used without restrictions to generate PWM signals. The **~** is not part of the pin name and must be omitted in code.