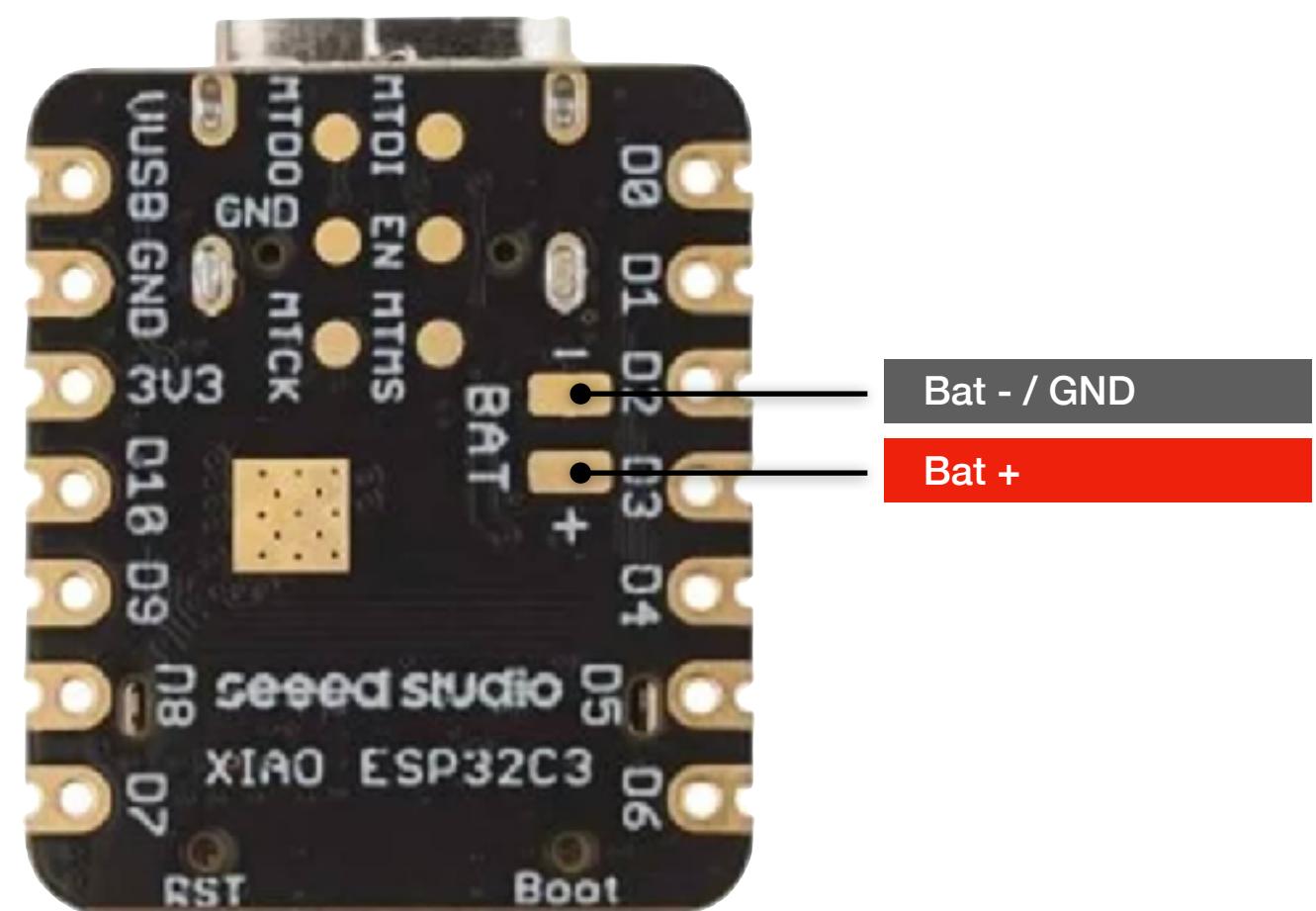
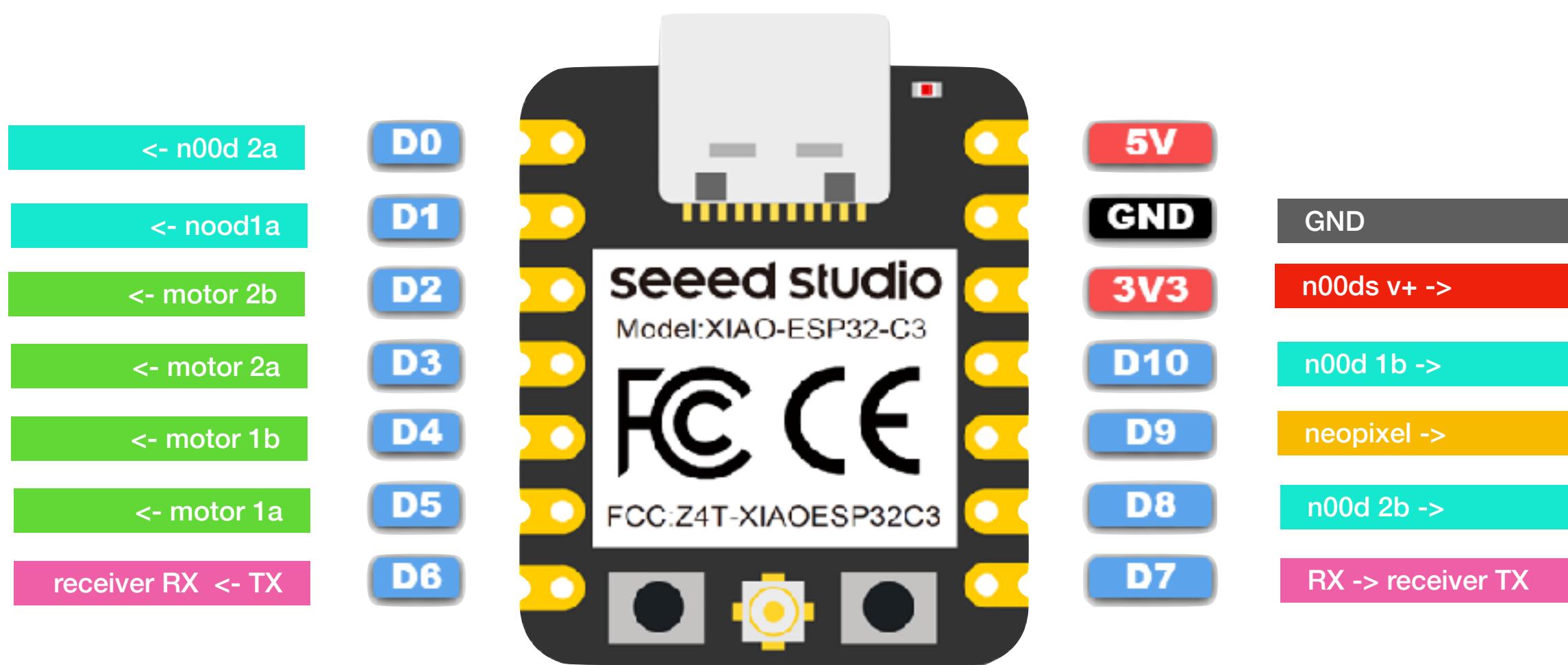
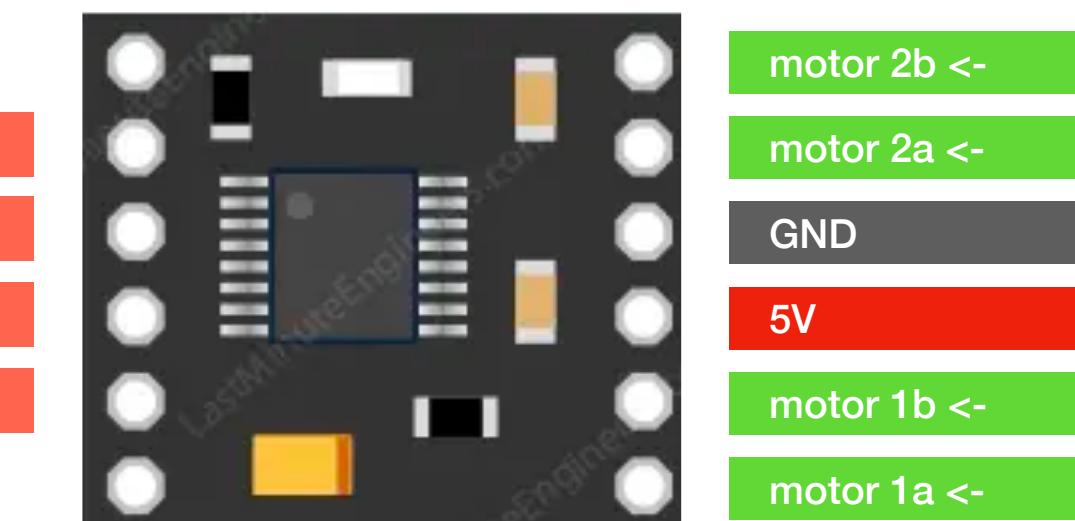


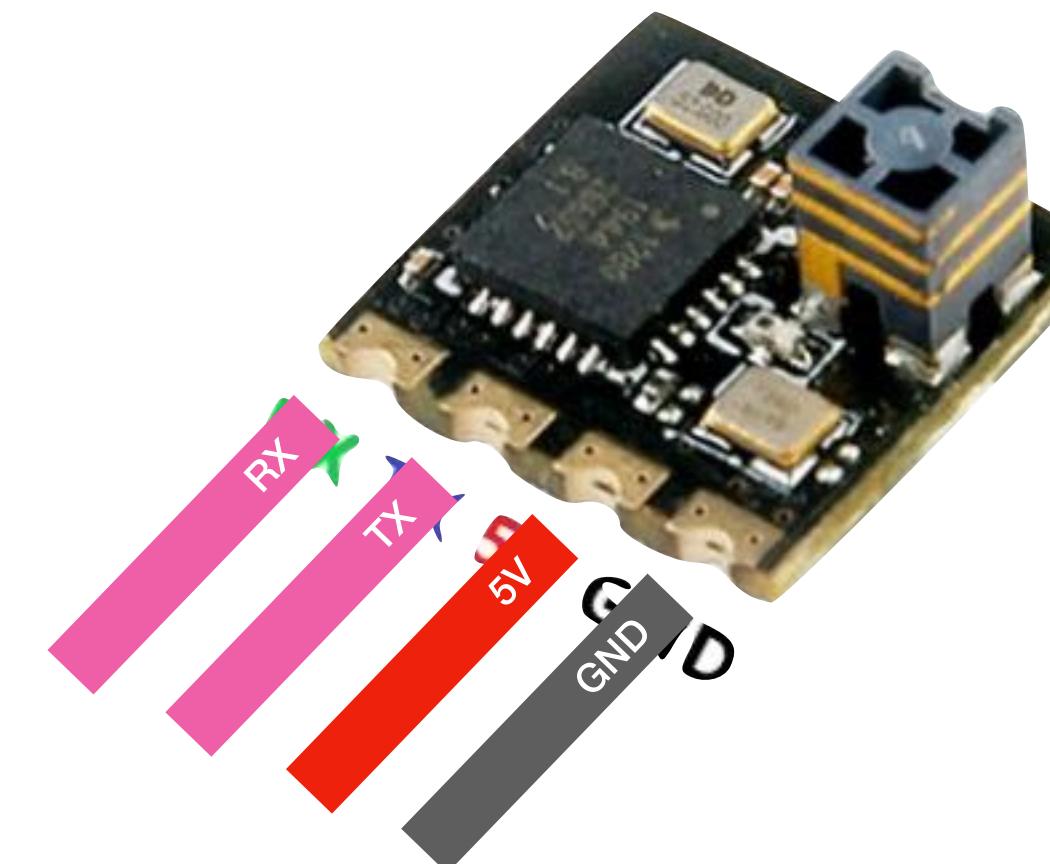
XIAO ESP32-C3



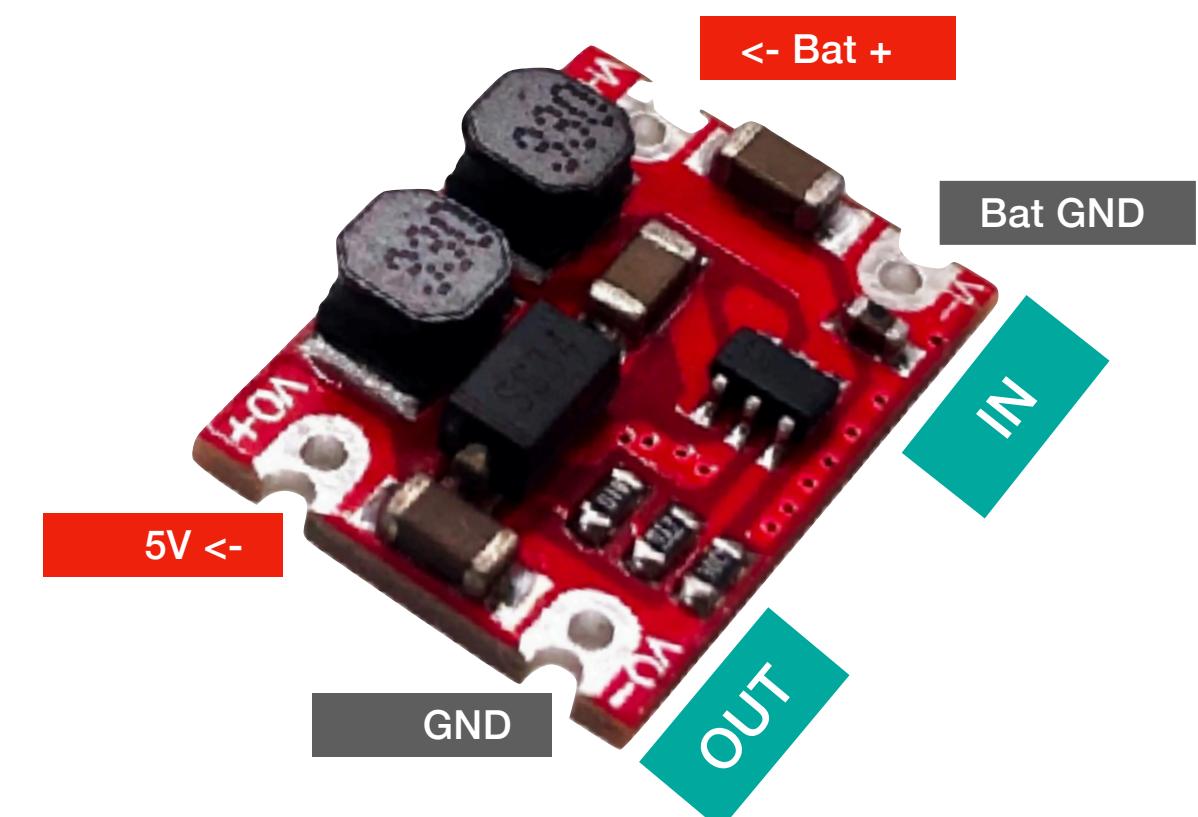
Generic DRV8833 motor driver



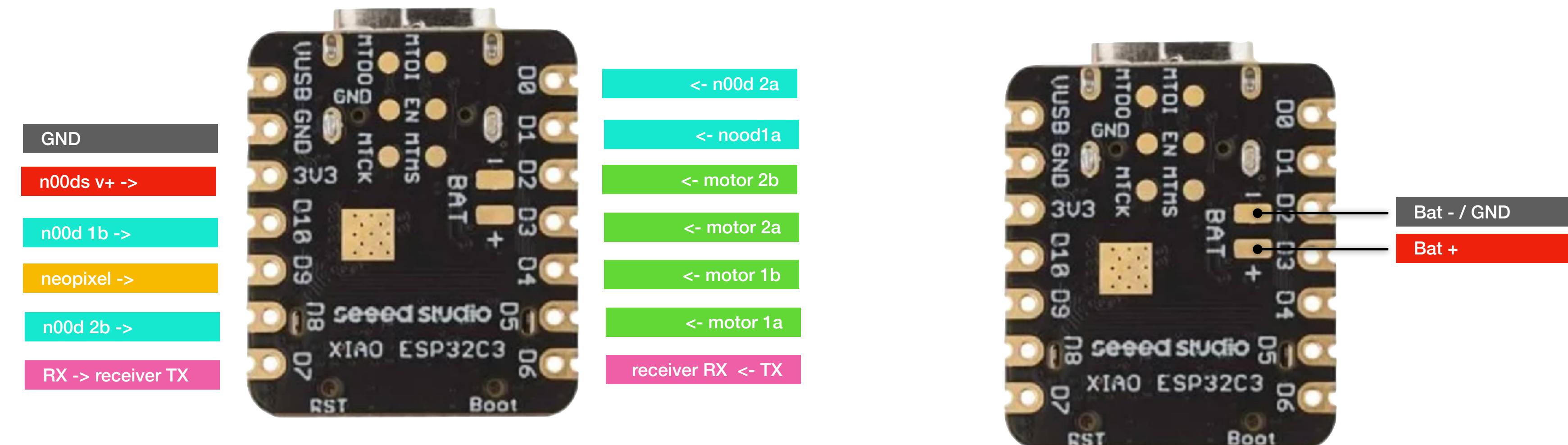
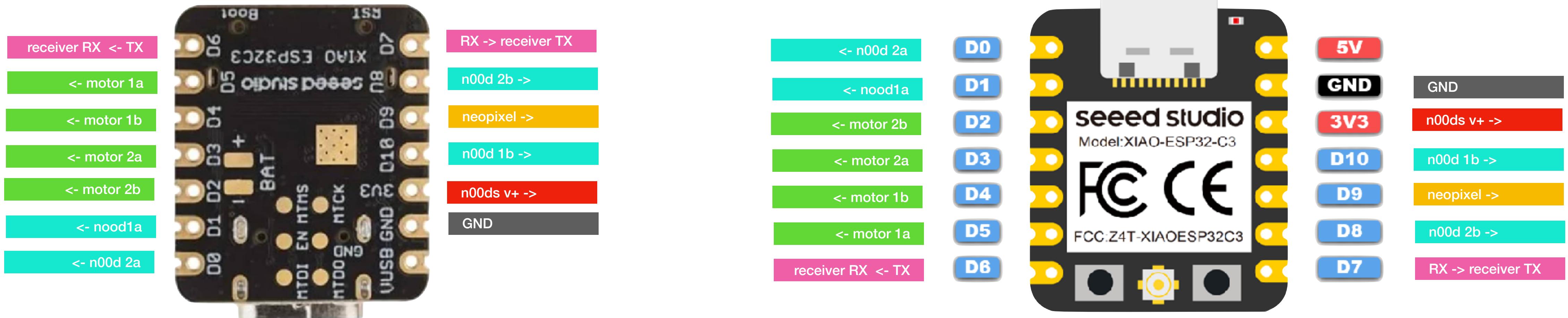
Happymodel EP2 TXCO ELRS rx



600ma 5v boost converter



XIAO ESP32-C3



Comm protocol of n00ds

- * Midi is 0-127
- * ExpressLRS is theoretically 0-2000, but the absolute range on the receiving end is in fact 191-1792. This is 1601 values in theory, and we map this back to 0-1023 to be able to apply binary logic

0-1023 is 10 bits

0	0	0	0	0	0	0	0	0	0
---	---	---	---	---	---	---	---	---	---

- * top 3 bits are used to encode the index of the n00d (1, 2, 3, 4) - psuedo big-endian

n00d blue - front

1	0	0	0	0	0	0	0	0	0
---	---	---	---	---	---	---	---	---	---

n00d blue - back

1	0	1	0	0	0	0	0	0	0
---	---	---	---	---	---	---	---	---	---

n00d pink - back

1	1	0	0	0	0	0	0	0	0
---	---	---	---	---	---	---	---	---	---

n00d pink - back

1	1	1	0	0	0	0	0	0	0
---	---	---	---	---	---	---	---	---	---

- * bottom 7 bits (0-127) are used for the value of the n00d
- * I effectively used 0-111. This is 16 values less, to prevent incidental binary overflow upwards in the case of signal jitter

n00d value (example)

1	0	0	1	0	1	1	0	0	1
---	---	---	---	---	---	---	---	---	---

BEWARE - confusing wiring scheme

- GND (yeah, really)
- ~sig (makes sense)
- 3.3V (yeah, really)

Original GEPRC TinyRadio TX

