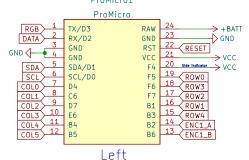
## Microcontroller

The Pro Micros form the hearts of each half of the keyboard. The left and right halves each have a different pinout.

You may of course also use Pro Micro compatible controllers, such as the Liatris, Elite—C, or nice!nano.

ProMicro1



ProMicro 2
ProMicro 2
ProMicro 2
ProMicro 2
ProMicro 3
RAW 24
23
23
RAW 23
RX/D2 GND 22
RESET GND VCC
SDA/D1 F4
SCL/D0 F5
SCL 6 SCL/D0 F5
COL4 7 D4 F66
COL5 8 C6 F77
COL5 8 C7 BA C6 F77
COL5 8 C7 B1 ROW3
COL0 10 C6 B3
COL0 10 C6 B3
RAW 24
23
22 RESET VCC
20 sse. Institute
CND 19 ROW1
18 ROW3
17 ROW2
17 ROW2
15 ROW0
15 ROW0
15 ROW0
14 ENCA
13 ENCB

The two resistors R1 and R2 should normally be soldered on both halves. If you choose to use IZC across halves, R1 and R2 only need to be soldered on one half.

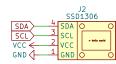
They are required for proper I2C operation.



The reset button allows you to flash new firmware to the keyboard. For most changes, it's only necessary to flash the side you use as master. Some changes, like those to underglow and the OLED display, do need to be flashed to both sides



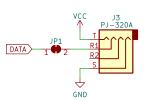
Header for SSD1306 (or compatible) OLED display



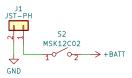
A TRS or TRRS cable connects both halves of the keyboard. Do not unplug when turned on.

By default, serial is used across halves. This enables the use of one OLED screen per keyboard half. If you require I2C across halves (and thus give up using two OLED displays), you may cut the JP1 jumper and solder wires from the SDA and SCL pins of the Pro Micro or I2C breakout to the R1 and R1 pins respectively — marked RA and RB on the PCB.

The R2 pin may also be used to pass extra data through to the other side. If R2 is used, you must use a TRRS cable.

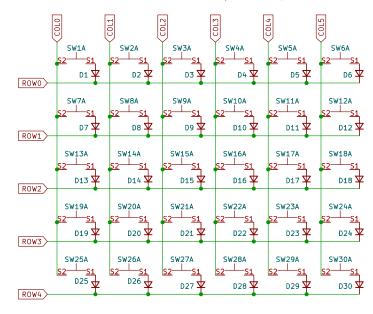


Battery header and power switch for nicelnano users



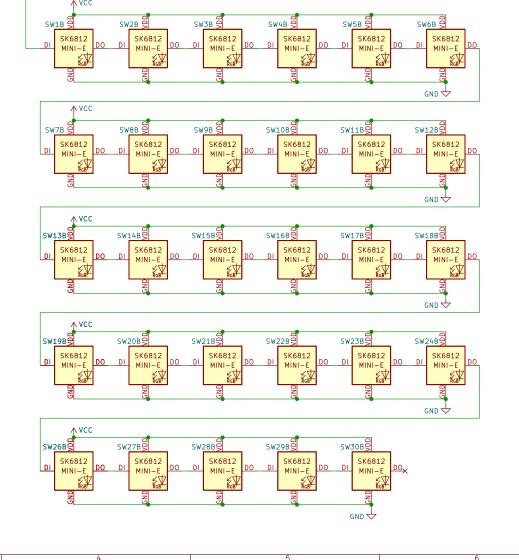
## Switch matrix

The inner and outer thumb cluster keys can be replaced with a rotary encoder. If the encoder has a button, that button takes the place of SW19 / SW21 in the matrix.



# Per-key RGB

Per-key RGB LEDs are optional and may be installed using SK6812MINI-E LEDs (or compatible).

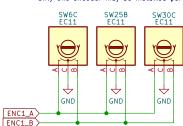


## Encoders

The use of a rotary encoder is optional. An EC11 encoder or compatible may be used. When you don't use an encoder, the encoder pins become available for use in modifications.

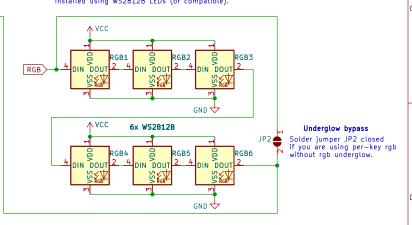
Note that the SW?C encoder shares the same physical position as the SW?A switch.

Only one encoder may be installed per half.



## **RGB Underglow**

RGB underglow LEDs are optional and may be installed using WS2812B LEDs (or compatible).



splitkb.com		
Sheet: /		
File: aurora_sot	le.kicad_sch	
Title: Auror	a Sofle V2	
Size: A3	Date: 2022-12-13	Rev: 1.0
KiCad E.D.A. e	eschema (6.0.7)	ld: 1/1
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