Power

power.sch

Micro-Controller

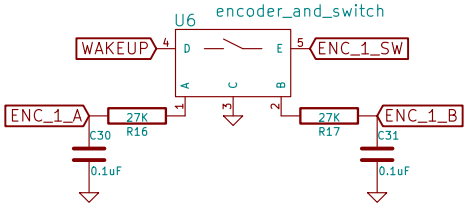
micro-controller.sch

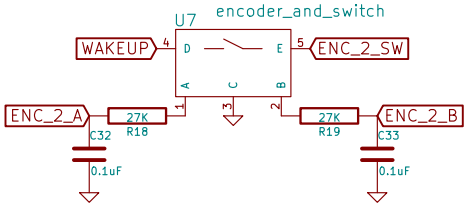
LED_Matrix

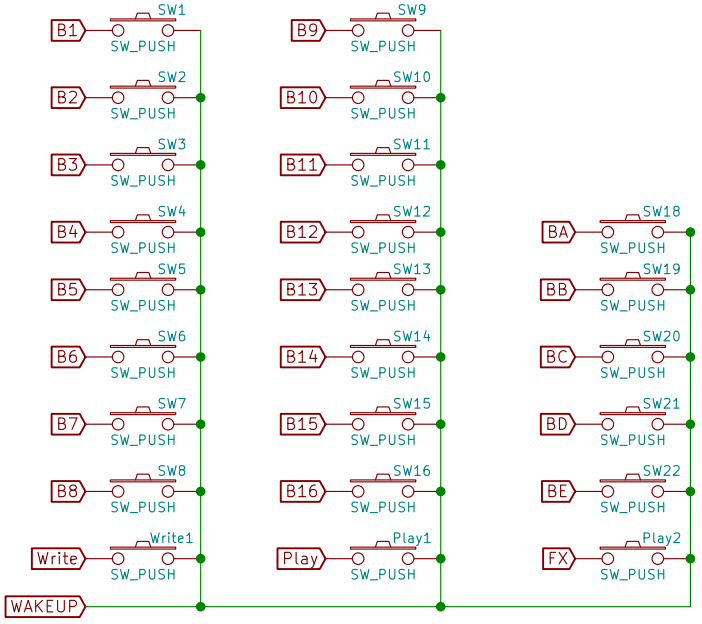
led_matrix.sch

Audio

audio.sch







Known problems:

Fixed:
- DAC 1.8V VDDD
- DAC couplings caps are in series with the chip instead of going to GND
- Voltage regulator footprint
- Encoders footprints and hole size

TODO:

DONE:

- I2C extension port

Wee Noise Maker

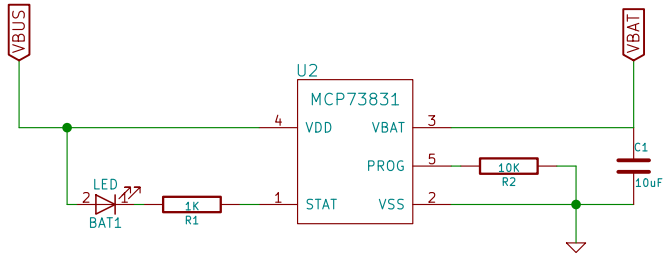
Fabien Chouteau

Sheet: /
File: wnm_mk_1.sch

Title: Wee Noise Maker - Mk-I

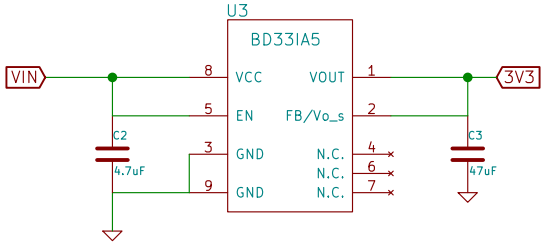
Size: A4	Date:	**Rev: C**
KiCad E.D.A. kicad 4.0.6-e0-634952ubuntu16.10.1		Id: 1/5

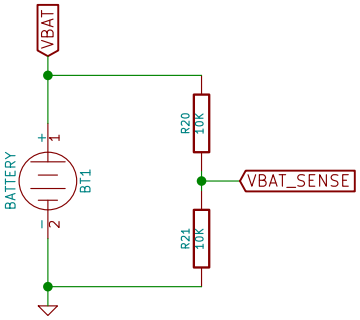
Battery charging

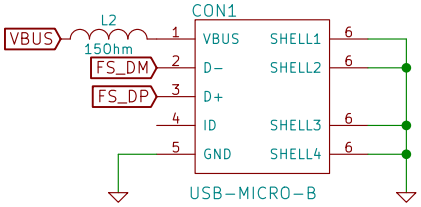


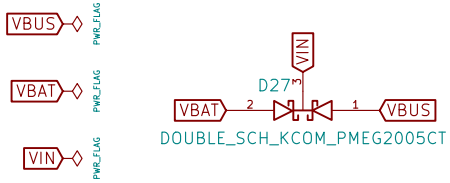
R2 = 10K => 100mA charge

Power regulator









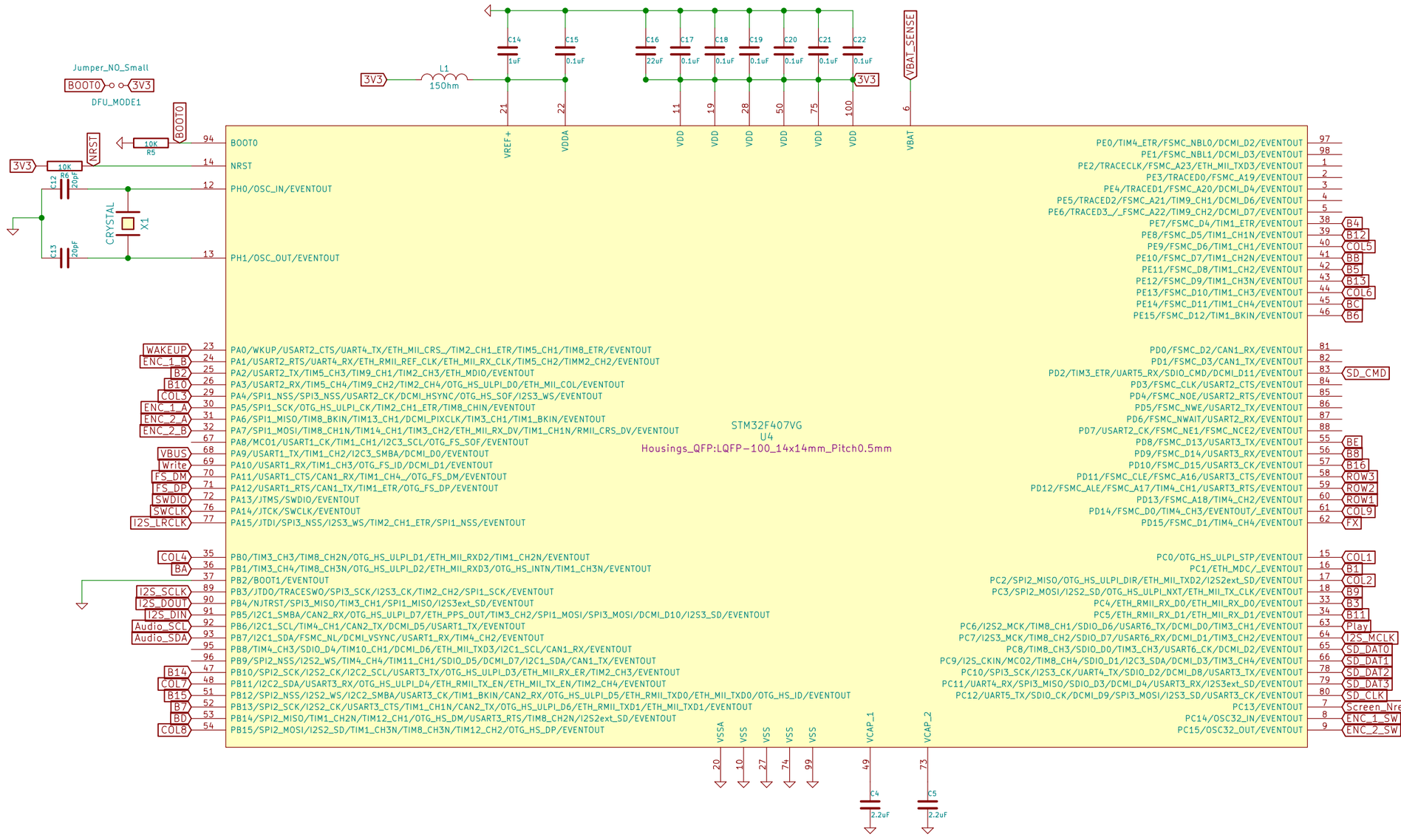
Wee Noise Maker

Fabien Chouteau

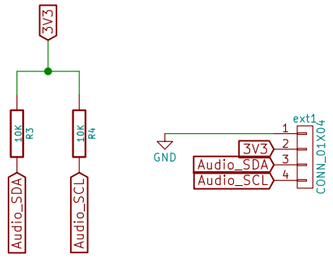
Sheet: /Power/
File: power.sch

Title: Wee Noise Maker - Mk-I

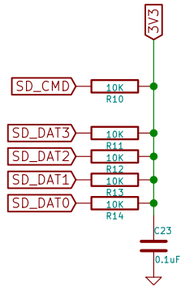
Size: A4	Date:	Rev: C
KiCad E.D.A. kicad 4.0.6-e0-634952ubuntu16.10.1		Id: 2/5

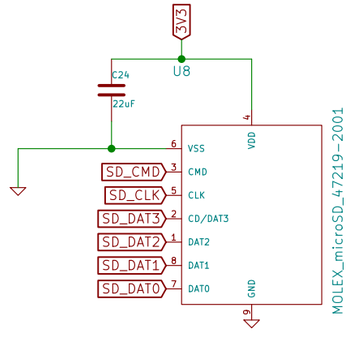


I2C pull-ups

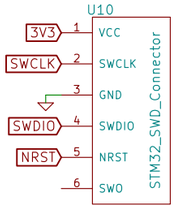


SD card





Debug port



Wee Noise Maker

Fabien Chouteau

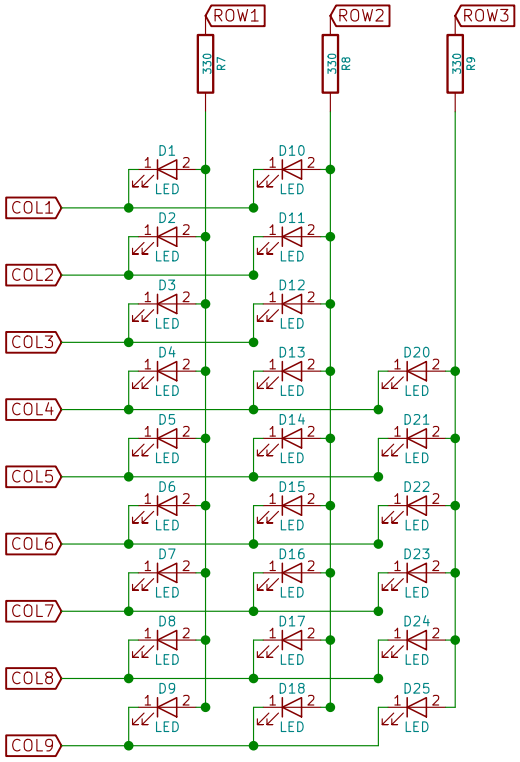
Sheet: /Micro-Controller/
File: micro-controller.sch

Title: Wee Noise Maker - Mk-I

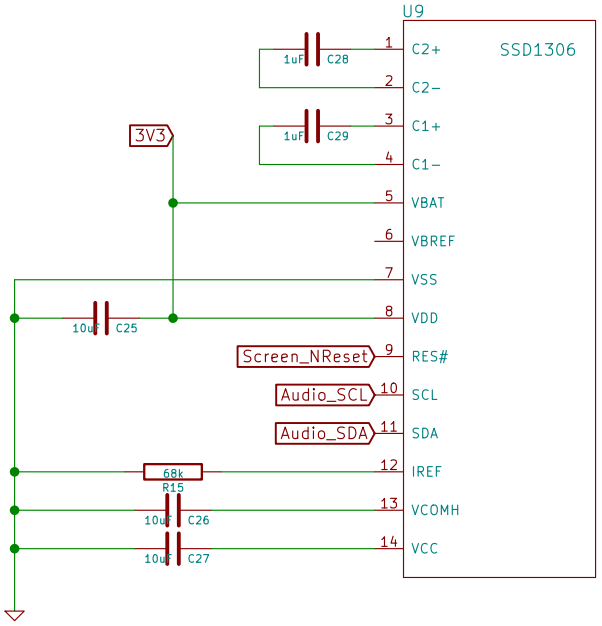
Size: A3	Date:	**Rev: C**
KiCad E.D.A. kicad 4.0.6-e0-634952ubuntu16.10.1		Id: 3/5

LED matrix

With 24 LEDs we could do a 5x5 (10 GPIOs) matrix, but having the LED logic matrix following the placement layout produces a cleaner PCB. The trade-off is that we use 2 more GPIOs.



OLED screen



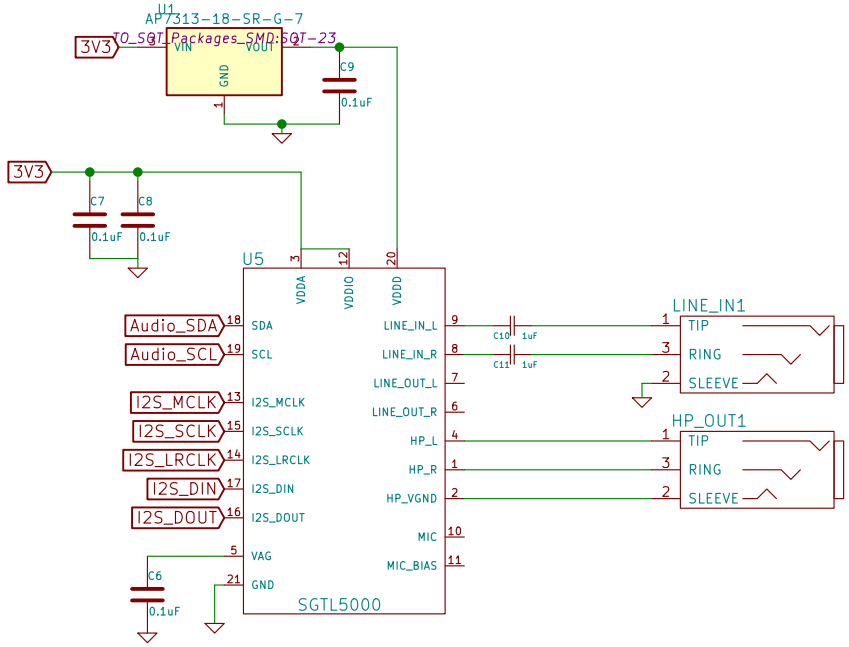
Wee Noise Maker

Fabien Chouteau

Sheet: /LED_Matrix/
File: led_matrix.sch

Title: Wee Noise Maker - Mk-I

Size: A4	Date:	**Rev: C**
KiCad E.D.A. kicad 4.0.6-e0-634952ubuntu16.10.1		Id: 4/5



Wee Noise Maker

Fabien Chouteau

Sheet: /Audio/
File: audio.sch

Title: Wee Noise Maker – Mk-I

Size: A4	Date:	**Rev: C**
KiCad E.D.A. kicad 4.0.6-e0-634952ubuntu16.10.1		Id: 5/5