
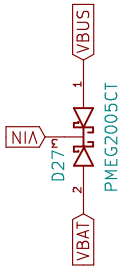
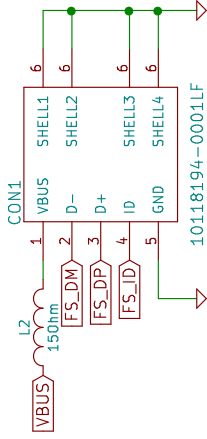
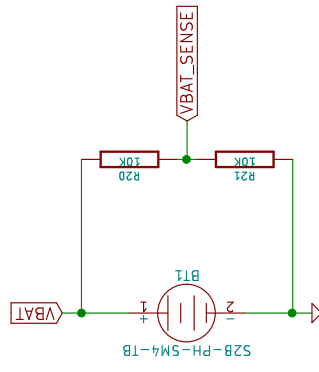
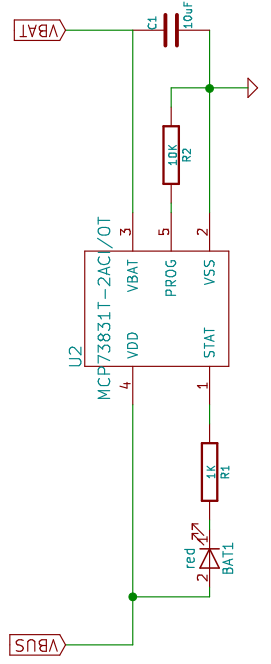
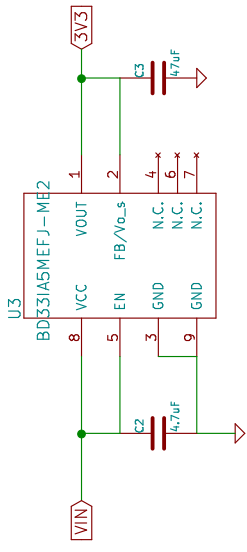


Sheet: Power	Sheet: Micro-Controller	Sheet: LED_Matrix	Sheet: Audio	Sheet: Button_Matrix
File: power.sch	File: micro-controller.sch	File: led_matrix.sch	File: audio.sch	File: button_matrix.sch
<p>Known problems:</p> <p>Fixed:</p> <ul style="list-style-type: none"> <li>– DAC 1.8V VDDD</li> <li>– DAC couplings caps are in series with the chip instead of going to GND</li> <li>– Voltage regulator footprint</li> <li>– Encoders footprints and hole size</li> </ul> <p>TODO:</p> <ul style="list-style-type: none"> <li>– Different screen (bigger, e-paper?)</li> <li>– resistor network for the sd card</li> <li>– Lower the number of different values of capas and resistors</li> </ul> <p>DONE:</p> <ul style="list-style-type: none"> <li>– I2C extension port</li> <li>– SMD crystal</li> <li>– SMD battery connector</li> <li>– Different SD card slot</li> <li>– Change button layout and labels (smaller distance between button rows?)</li> <li>– Fold screen connector under the screen</li> <li>– Wake up circuit</li> <li>– remove bottom-right hole</li> <li>– Add test points (I2S, SD card, I2C)</li> <li>– Encoders filtering?</li> </ul>				
<p>  </p> <p><b>Fabien Chouteau</b></p> <p>Sheet: /</p> <p>File: wnm_mk_1.sch</p> <p><b>Title: Wee Noise Maker – Mk-I</b></p> <p>Size: A4      Date: / /</p> <p>KiCad E.D.A.    kicad 4.0.7 – e0 – 637258ubuntu16.10.1</p> <p><b>Rev: D</b></p> <p>Id: 1/6</p>				

# Battery charging



# Power regulator



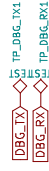
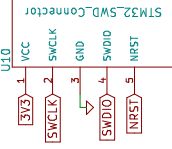
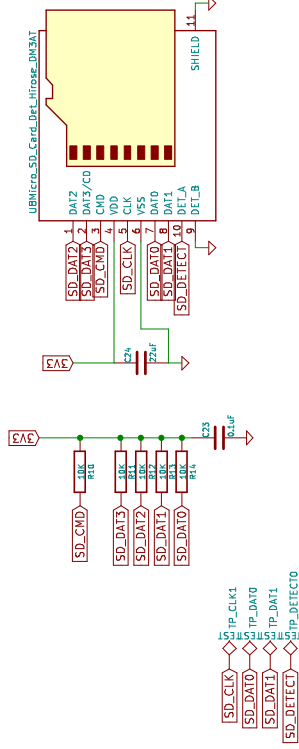
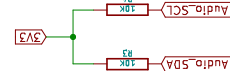
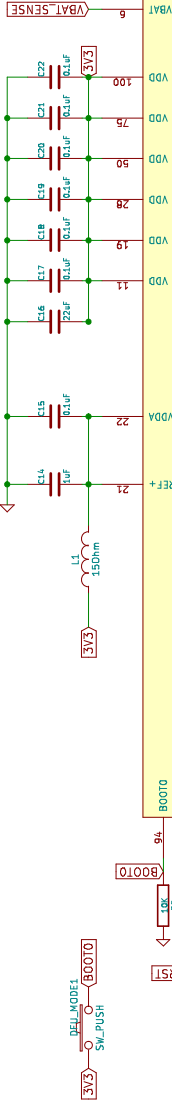
Wee Noise Maker

Fabien Chouteau  
Sheet: /Power/  
File: power.sch

Title: Wee Noise Maker - Mk-1

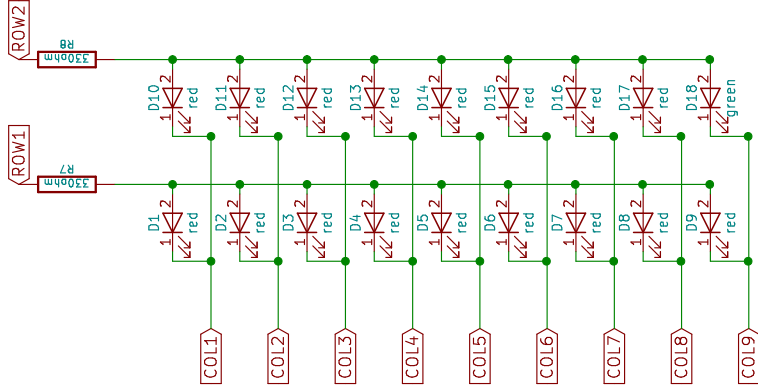
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KICad E.D.A. kicad 4.0.7-e0-637258ubuntu16.10.1  
Id: 2/6

Rev. D

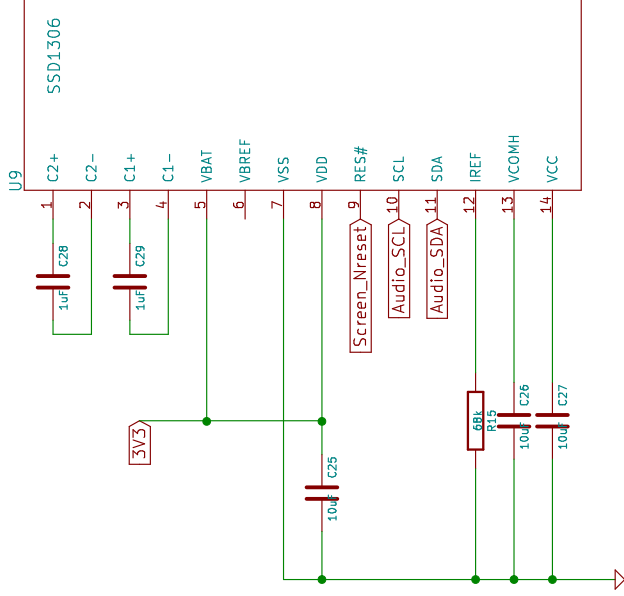


# LED matrix

With 18 LEDs we could do a 4x5 (9 GPIOs) matrix, but having the LED logic matrix following the placement layout produces a cleaner PCB. The trade-off is that we use 3 more GPIOs.



# OLED screen



Fabien Chouteau

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File: led\_matrix.sch

Title: Wee Noise Maker - Mk-I

Size: A4 Date:

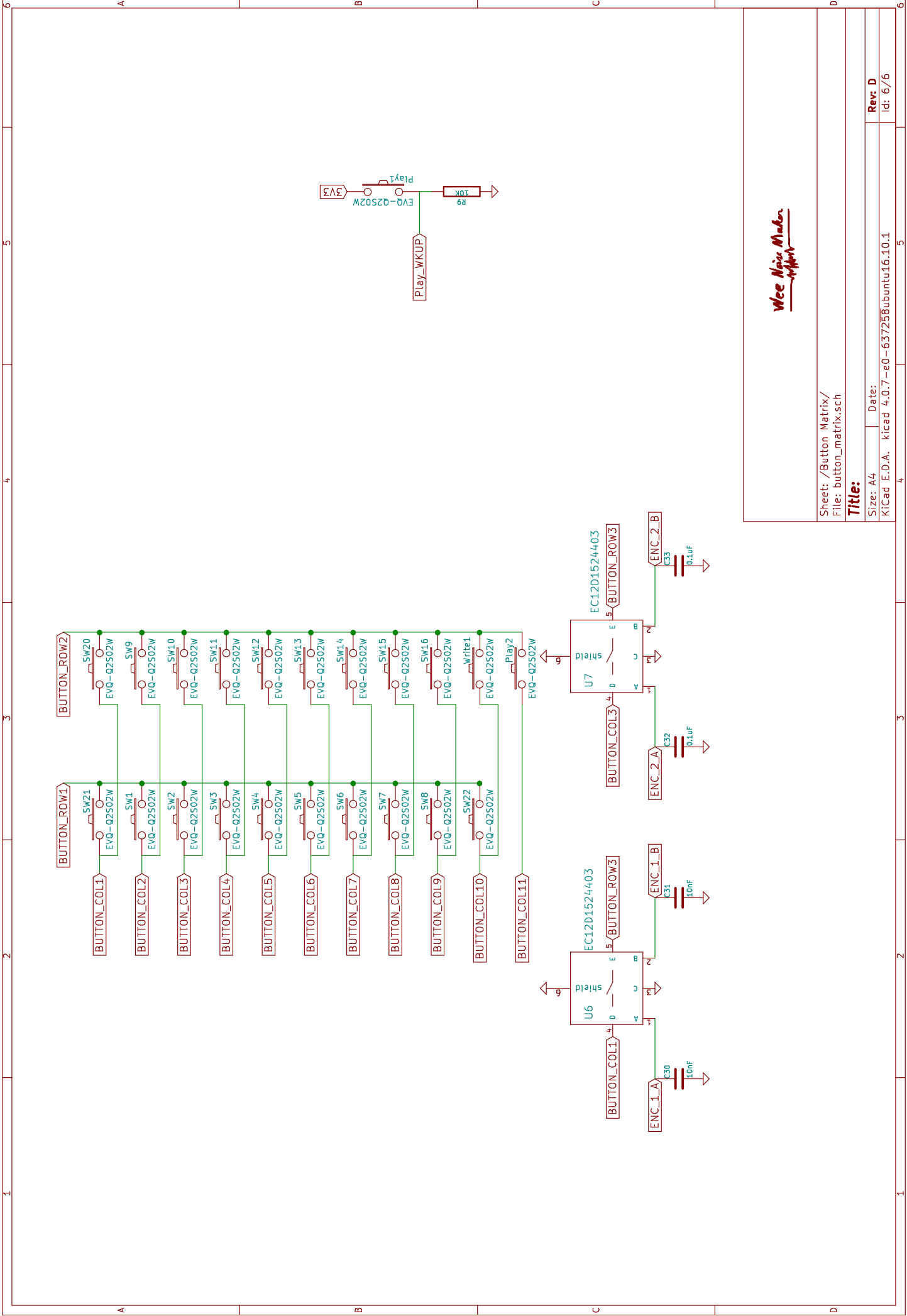
KiCad E.D.A. kicad 4.0.7-e0-637258ubuntu16.10.1

Rev. D

Id: 4/6

Wee Noise Maker





Wesley Mader

Sheet: /Button Matrix/  
File: button\_matrix.sch

Title:

Size: A4 Date:

KiCad E.D.A. kicad 4.0.7-e0-637258ubuntu16.10.1

Rev. D

Id: 6/6