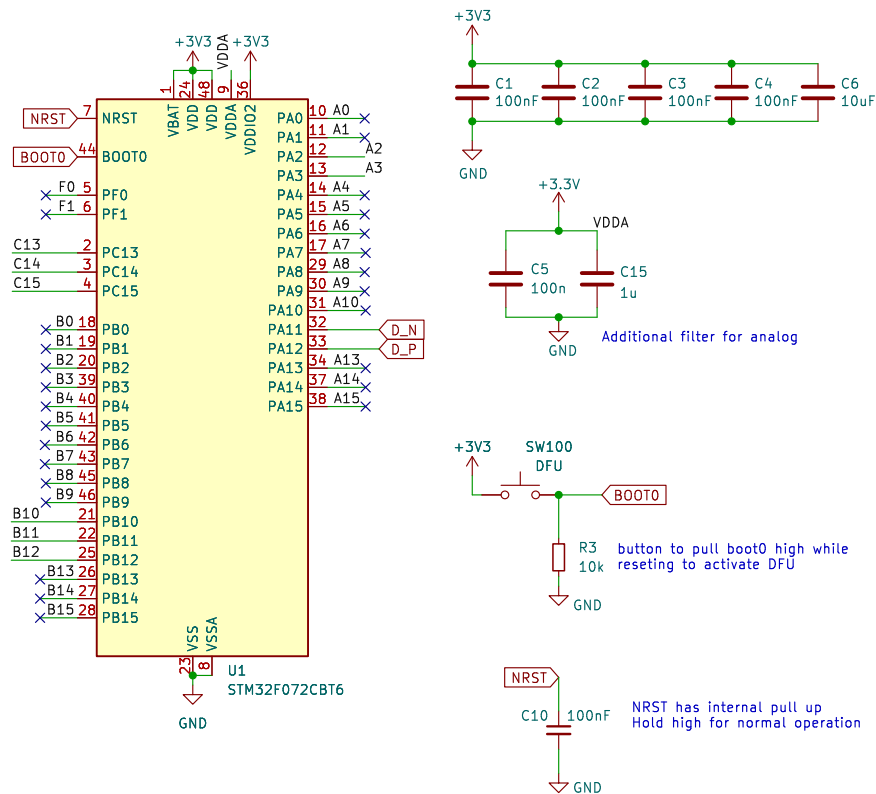


STM32F072CBT6 128Kb Flash, crystal-less USB

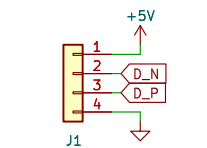


Pin Mapping

APLEX_SELO	B1
APLEX_SEL1	B2
APLEX_SEL2	B10
APLEX_O_EN	B11
APLEX_1_EN	B12
ADC	A3
ROW0	C13
ROW3	C14
ROW2	C15
ROW1	A2
COL0	APLEX_0_A3
COL1	APLEX_0_A0
COL2	APLEX_0_A1
COL3	APLEX_0_A2
COL4	APLEX_0_A4
COL5	APLEX_0_A6
COL6	APLEX_1_A3
COL7	APLEX_1_A0
COL8	APLEX_1_A1
COL9	APLEX_1_A2
COL10	APLEX_1_A4
COL12	APLEX_1_A5
COL11	APLEX_1_A6

Unified daughterboard Legacy C3 connector

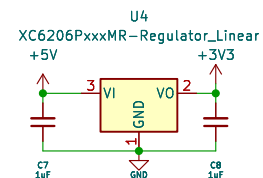
SM04B-SRSS-TB(LF)(SN)



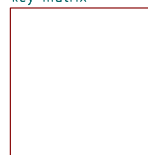
Legacy unified daughterboard C

usb signal impedance ref:
4 layer PCB, stack up: JLC04161H-7628
coplanar differential pair
signal spacing: 0.2mm
signal to ground spacing: 0.2mm
signal trace width: 0.2644mm

3V3 LDO



key matrix



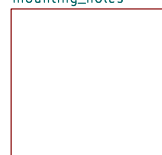
File: key_matrix.kicad_sch

analog



File: analog.kicad_sch

mounting_holes



File: mounting_holes.kicad_sch

sporkus

Sheet: /

File: capybully.kicad_sch

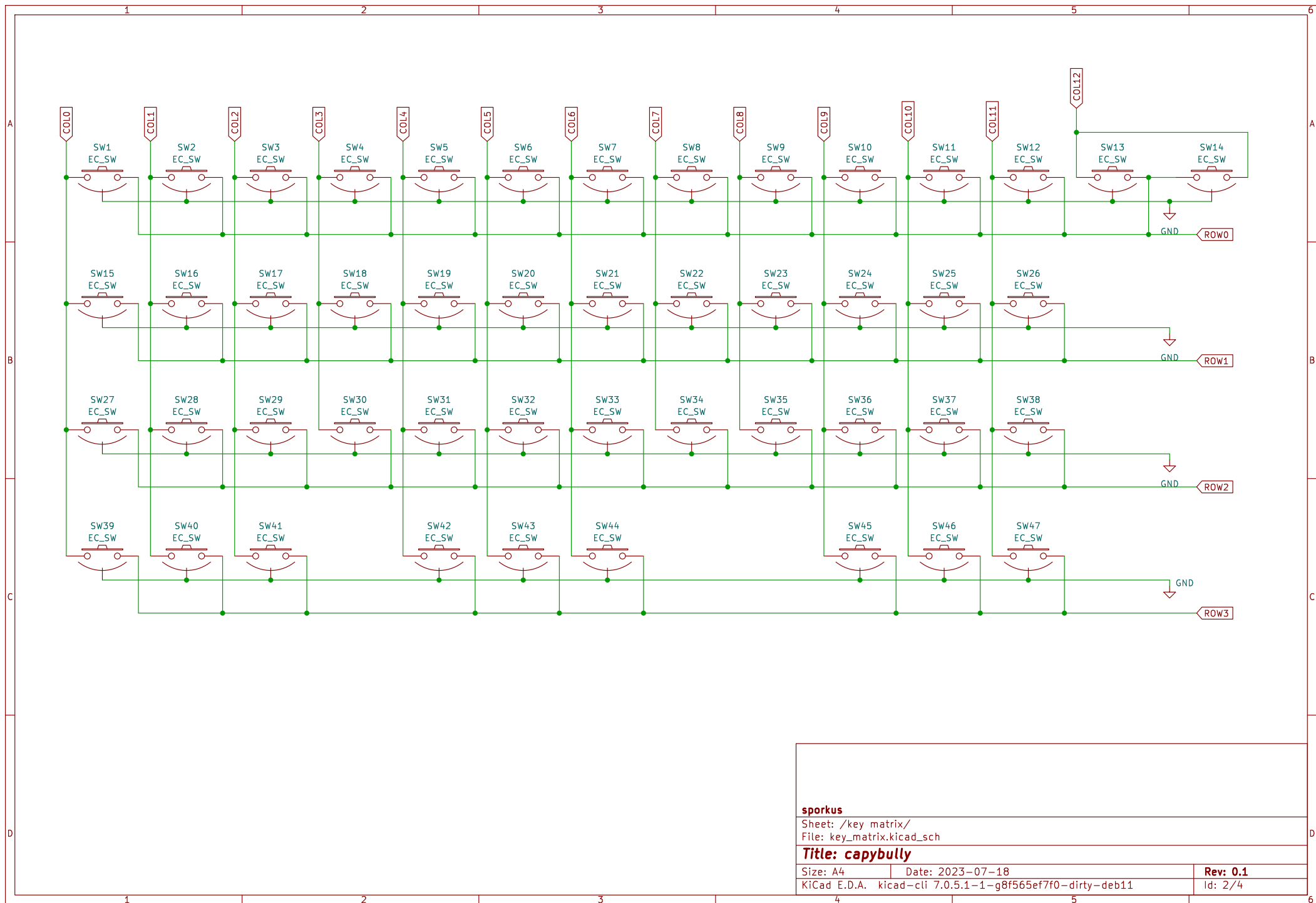
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Size: A4 Date: 2023-07-18

KiCad E.D.A. kicad-cli 7.0.5.1-1-g8f565ef7f0-dirty-deb11

Rev: 0.1

Id: 1/4



sporkus

Sheet: /key matrix/

File: key_matrix.kicad_sch

Title: capybully

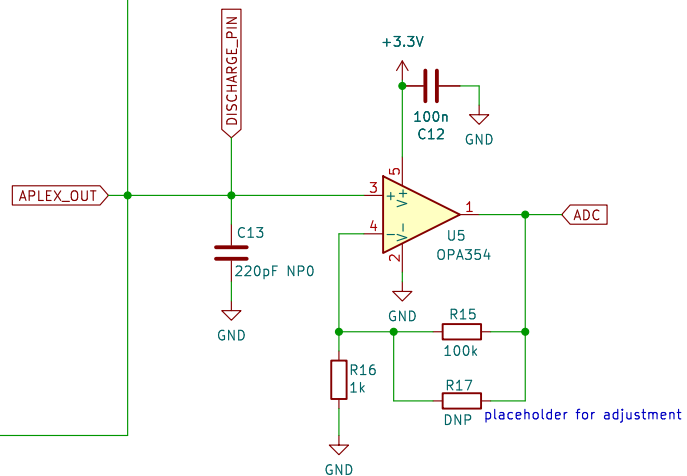
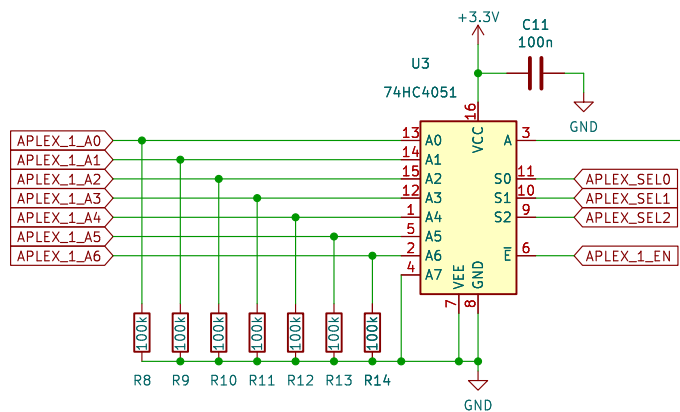
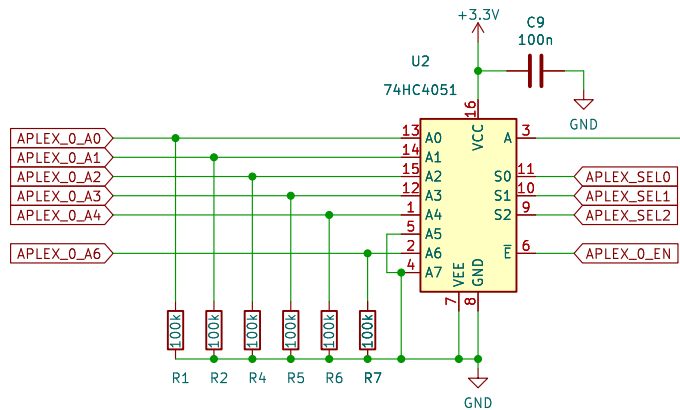
Size: A4

Date: 2023-07-18

Rev: 0.1

KiCad E.D.A. kicad-cli 7.0.5.1-1-g8f565ef7f0-dirty-deb11

Id: 2/4



Alternatives:
SC-70-6
OPA358AIDCKR
LMV861

SOT-23-5 seems to have better availability
OPA354 to 358 seems ok

sporkus

Sheet: /analog/
File: analog.kicad_sch

Title: capybully

Size: A4 Date: 2023-07-18
KiCad E.D.A. kicad-cli 7.0.5.1-1-g8f565ef7f0-dirty-deb11

Rev: 0.1
Id: 3/4

