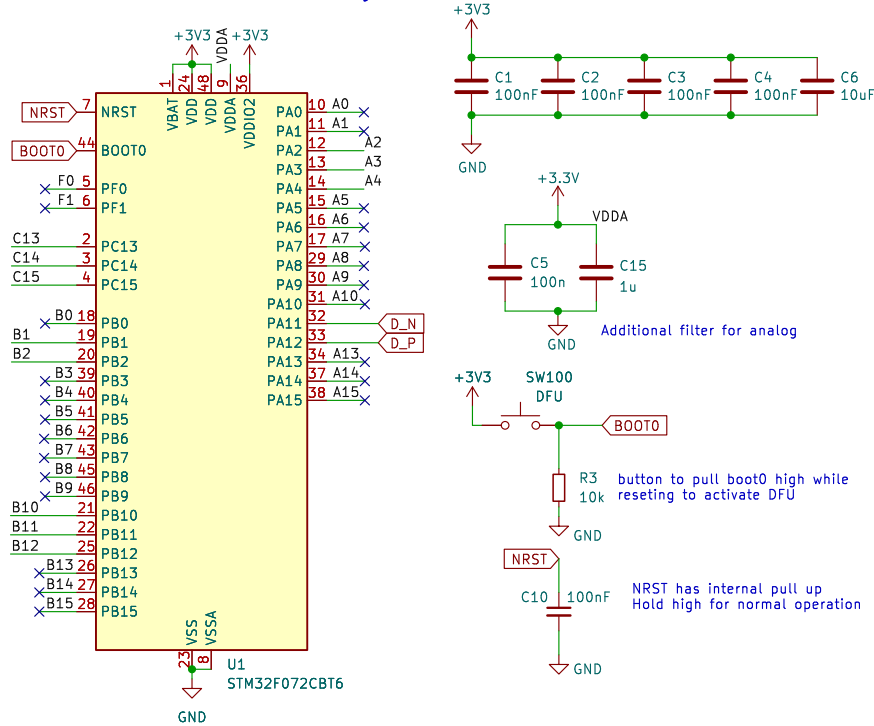
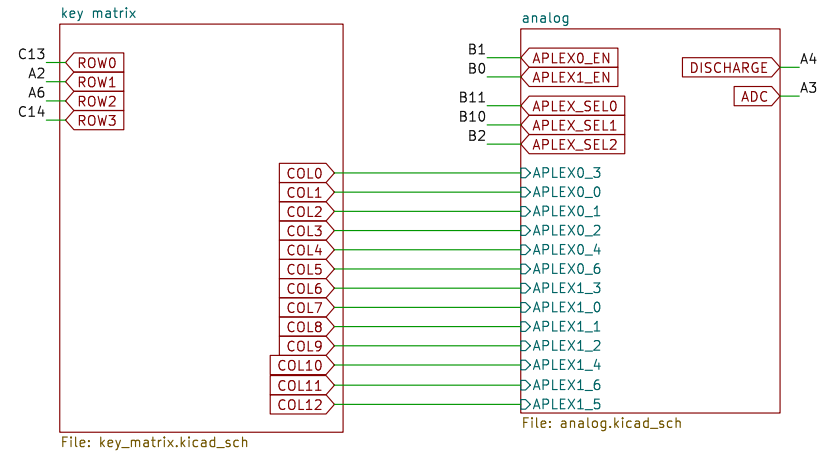


STM32F072CBT6 128Kb Flash, crystal-less USB

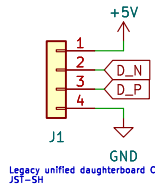


Pin Mapping



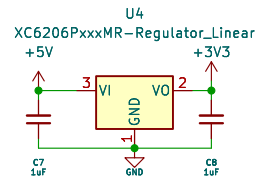
Unified daughterboard Legacy C3 connector

SM04B-SRSS-TB(LF)(SN)

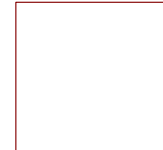


usb signal impedance ref:
4 layer PCB, stack up: JLC04161H-7628
coplanar differential pair
signal spacing: 0.2mm
signal to ground spacing: 0.2mm
signal trace width: 0.2644mm

3V3 LDO



mounting_holes



File: mounting_holes.kicad_sch

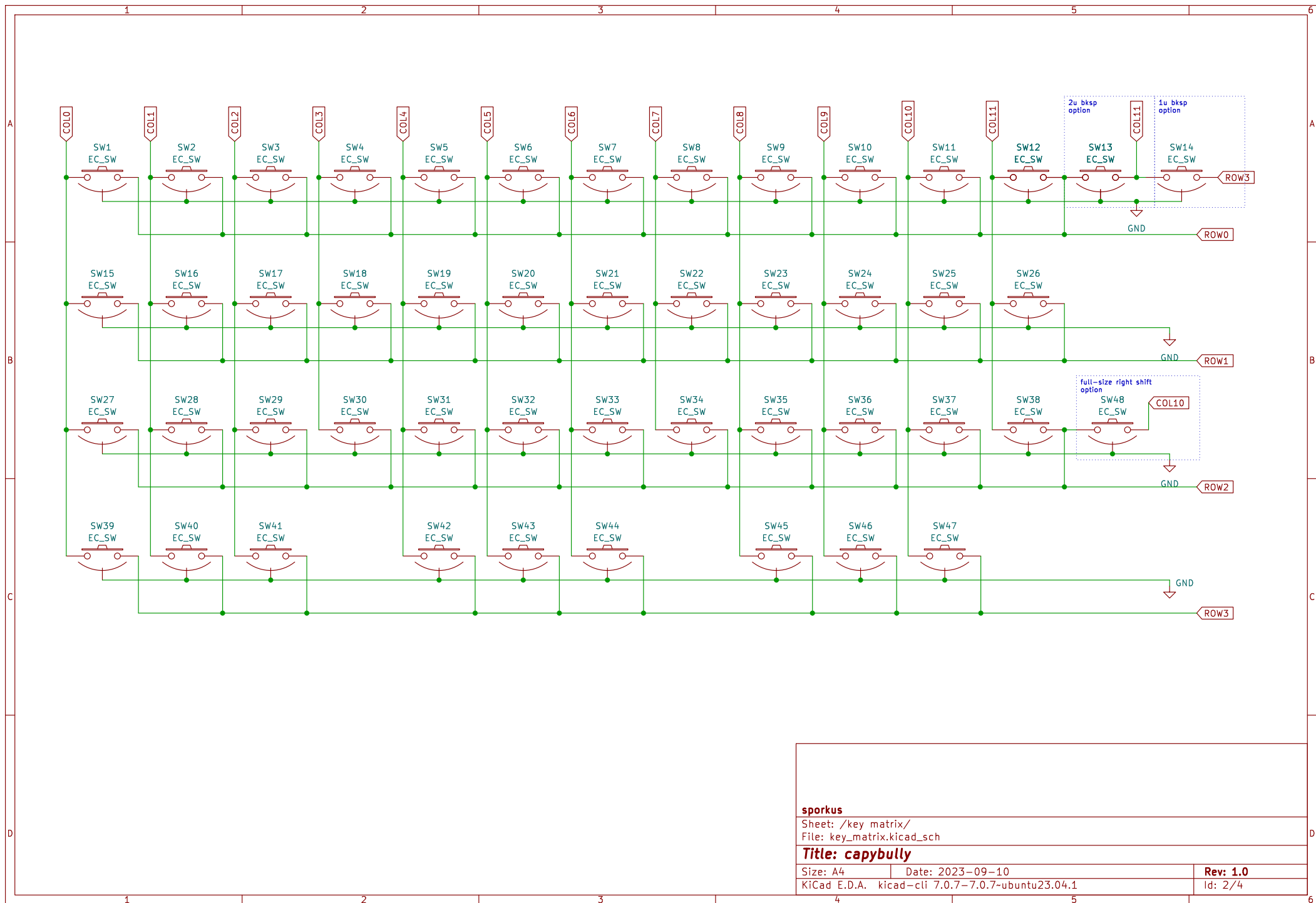
sporkus

Sheet: /
File: capybully.kicad_sch

Title: capybully

Size: A4 Date: 2023-09-10
KiCad E.D.A. kicad-cli 7.0.7-7.0.7-ubuntu23.04.1

Rev: 1.0
Id: 1/4



sporkus

Sheet: /key matrix/

File: key_matrix.kicad_sch

Title: capybully

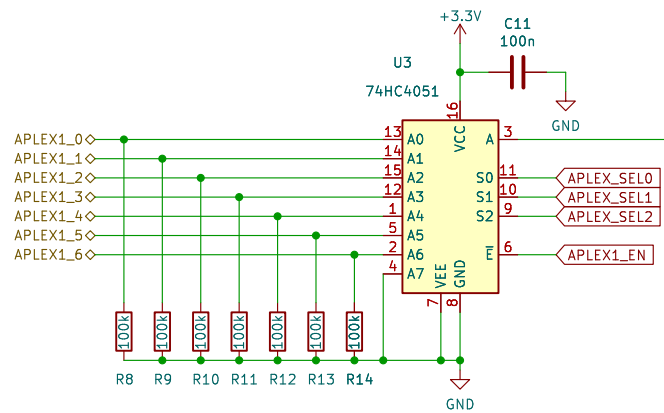
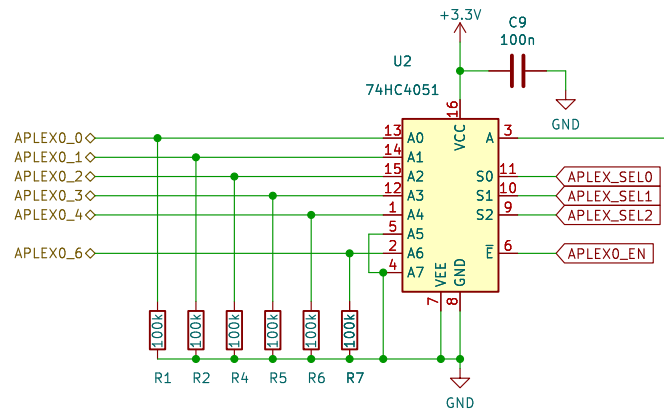
Size: A4

Date: 2023-09-10

Rev: 1.0

KiCad E.D.A. kicad-cli 7.0.7-7.0.7-ubuntu23.04.1

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: 2023-09-10

KiCad E.D.A. kicad-cli 7.0.7-7.0.7-ubuntu23.04.1

Rev: 1.0

Id: 3/4



- H1 MountingHole
- H2 MountingHole
- H3 MountingHole
- H4 MountingHole
- H5 MountingHole
- H6 MountingHole
- H7 MountingHole
- H8 MountingHole
- H9 MountingHole
- H10 MountingHole
- H11 MountingHole
- H14 MountingHole
- H13 MountingHole
- H16 MountingHole
- H15 MountingHole
- H18 MountingHole
- H17 MountingHole
- H20 MountingHole
- H19 MountingHole
- H21 MountingHole
- H12 MountingHole
- H22 MountingHole
- H23 MountingHole
- H24 MountingHole
- H25 MountingHole
- H26 MountingHole
- H27 MountingHole

sporkus

Sheet: /mounting_holes/
File: mounting_holes.kicad_sch

Title: capybully