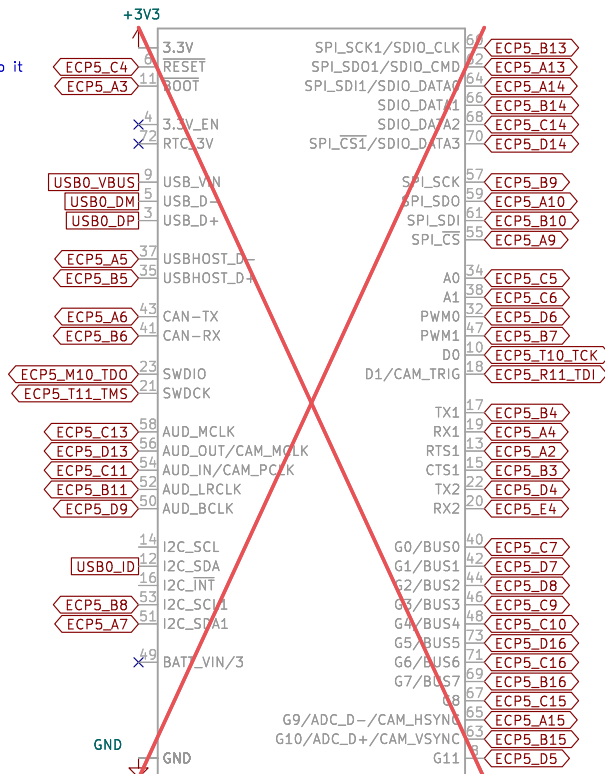


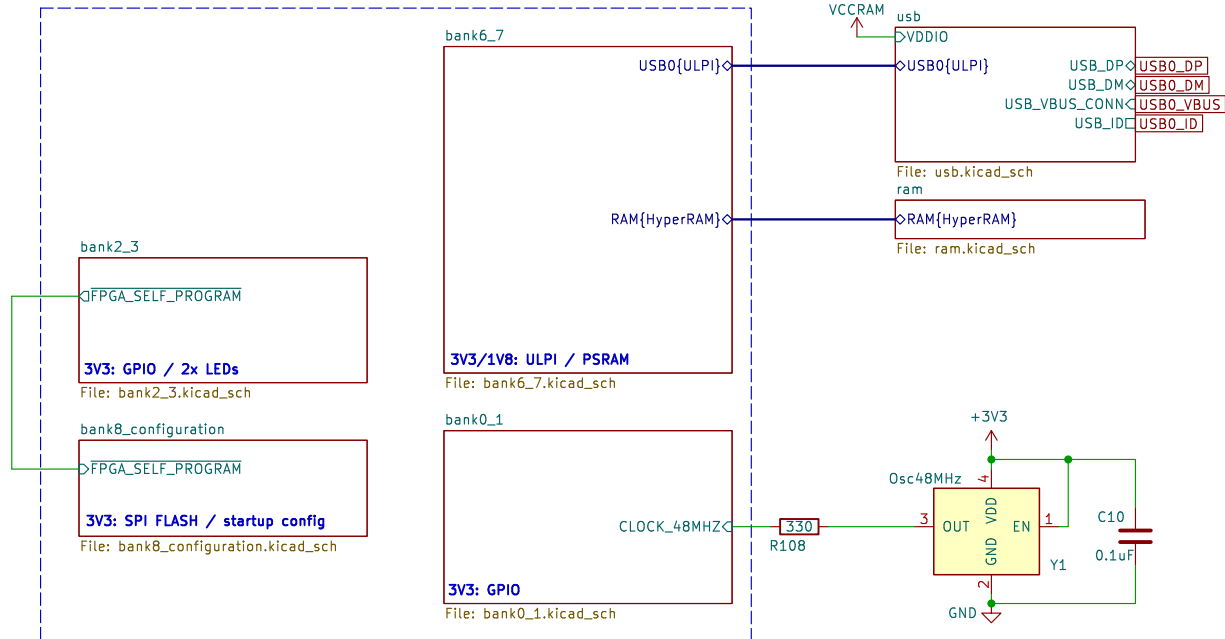
M.2 CARD EDGE

GPIOs here are all 3V3 from banks 0–3



NOPOP, this part just represents the card edge

LFE5U FPGA



power_supplies

File: power_supplies.kicad_sch

Licensed under the CERN-OHL-S v2
S.Holzapfel, apfelaudio UG (haftungsbeschränkt)

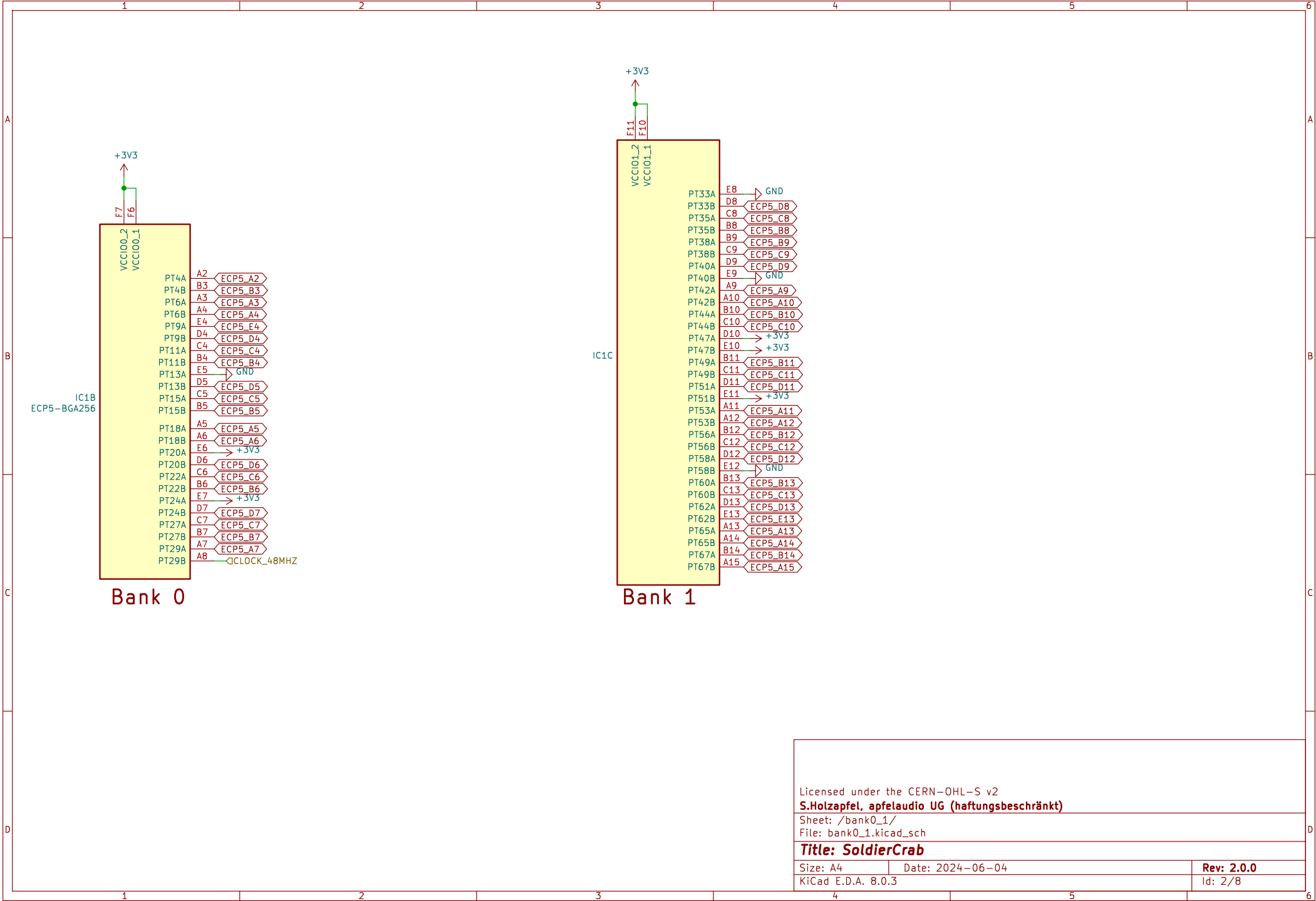
Sheet: /
File: soldiercrab.kicad_sch

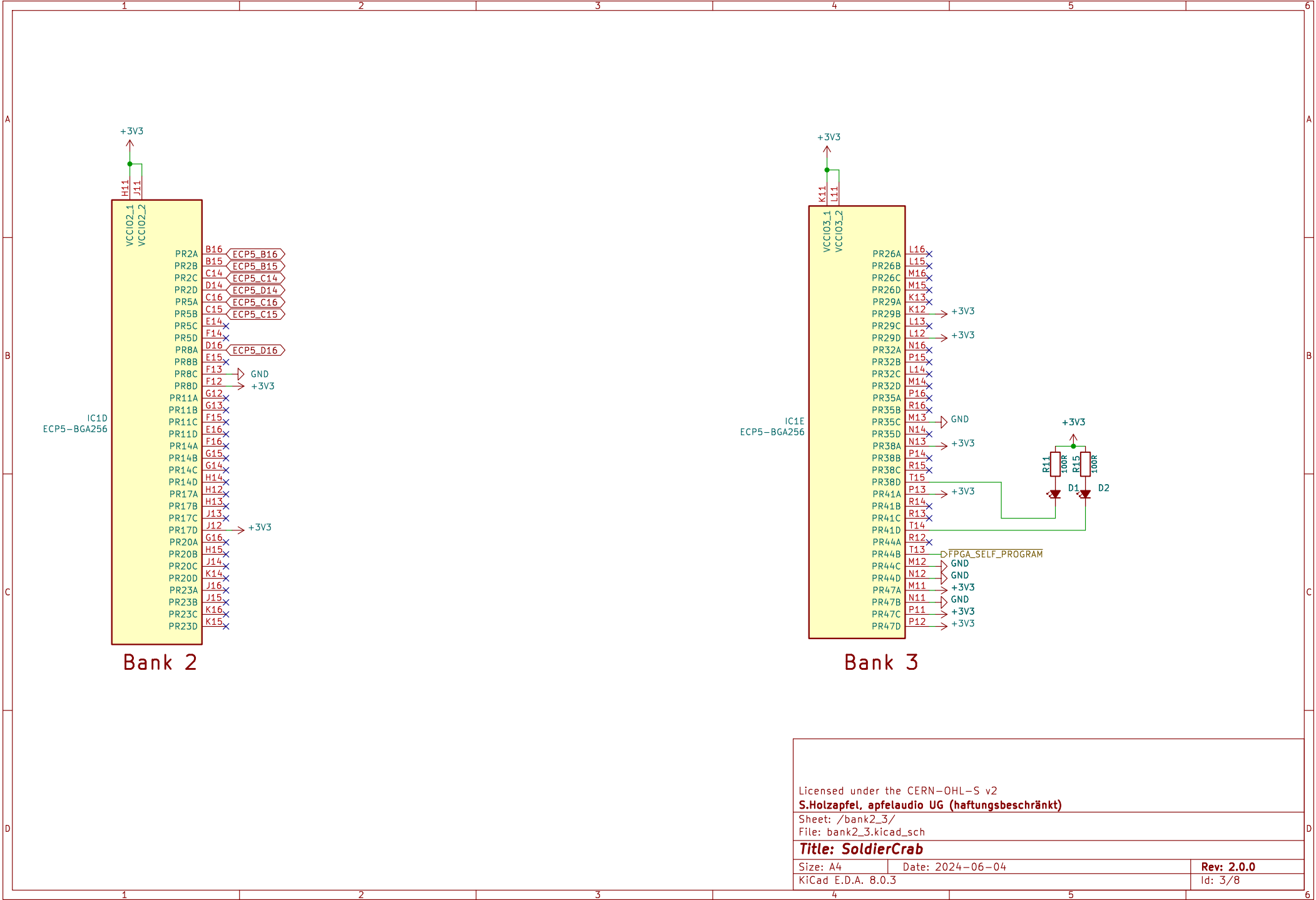
Title: SoldierCrab

Size: A4
Date: 2024-06-04
KiCad E.D.A. 8.0.3

Rev: 2.0.0
Id: 1/8







Licensed under the CERN-OHL-S v2
S.Holzapfel, apfelaudio UG (haftungsbeschränkt)

Sheet: /bank2_3/
File: bank2_3.kicad_sch

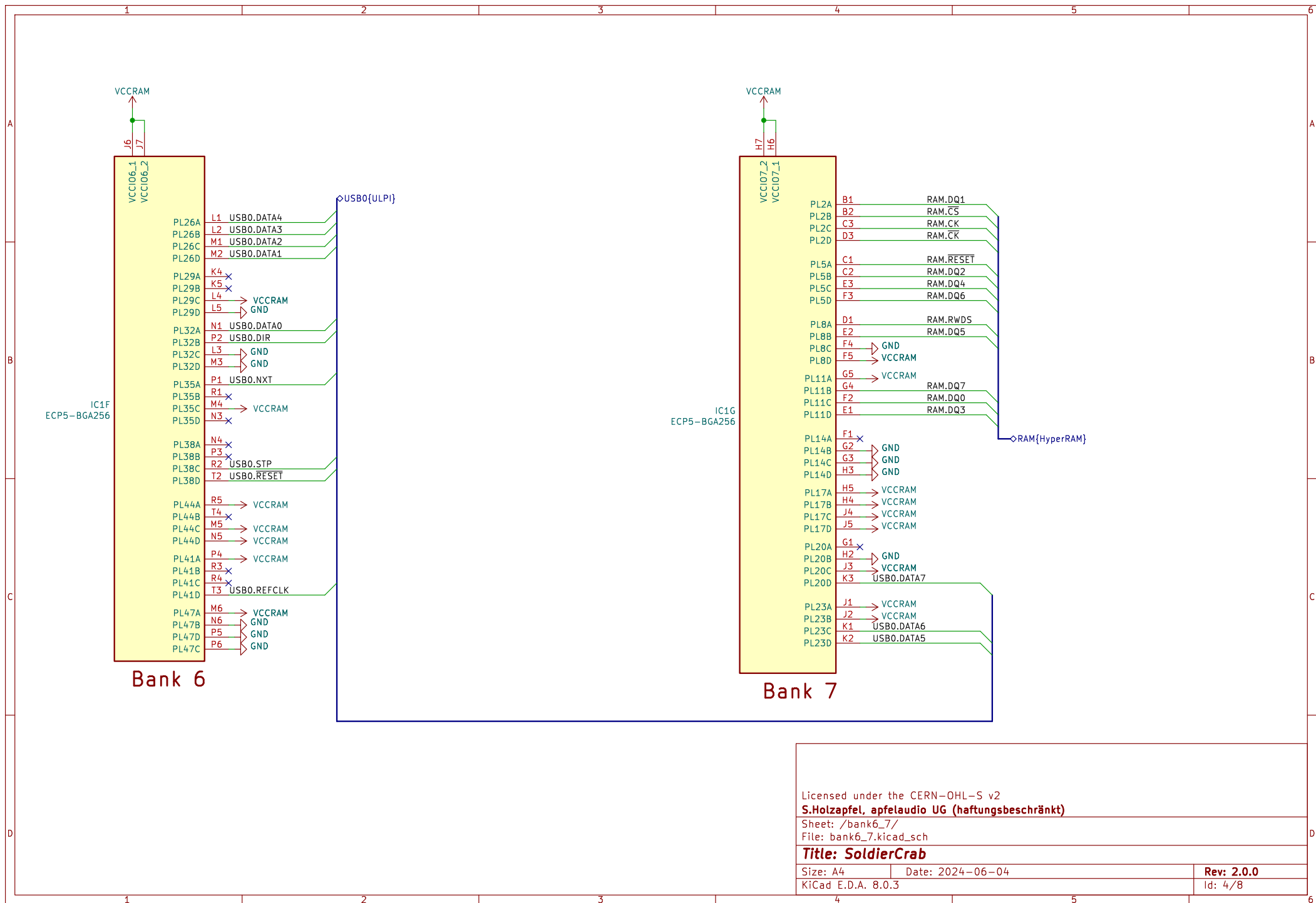
Title: SoldierCrab

Size: A4 Date: 2024-06-04

KiCad E.D.A. 8.0.3

Rev: 2.0.0

Id: 3/8



Licensed under the CERN-OHL-S v2
S.Holzapfel, apfelaudio UG (haftungsbeschränkt)

Sheet: /bank6_7/
File: bank6_7.kicad_sch

Title: SoldierCrab

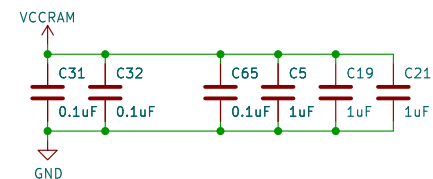
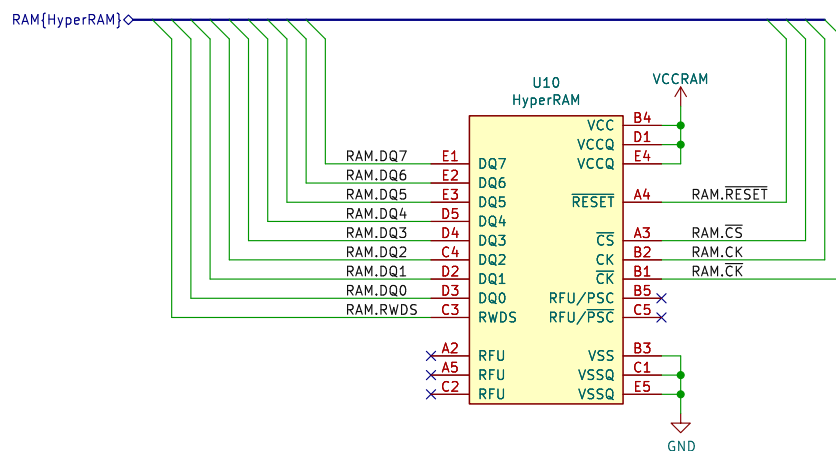
Size: A4 Date: 2024-06-04

KiCad E.D.A. 8.0.3

Rev: 2.0.0

Id: 4/8

Id: 6/8



Licensed under the CERN-OHL-S v2
S.Holzapfel, apfelaudio UG (haftungsbeschränkt)

Sheet: /ram/
File: ram.kicad_sch

Title: SoldierCrab

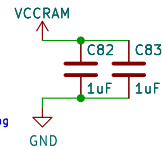
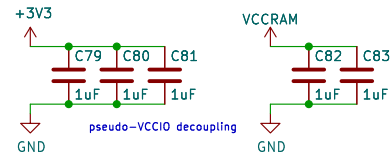
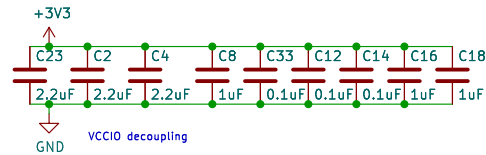
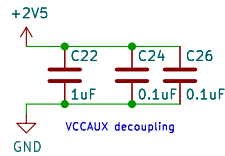
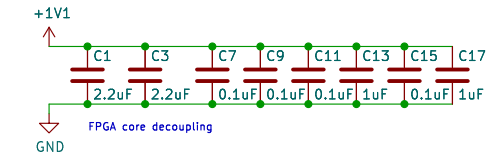
Size: A4 Date: 2024-06-04

KiCad E.D.A. 8.0.3

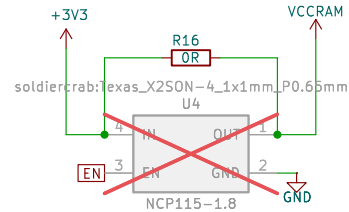
Rev: 2.0.0

Id: 7/8

decoupling under ECP5

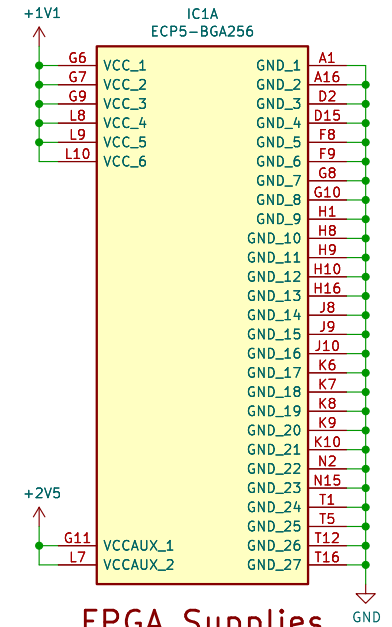
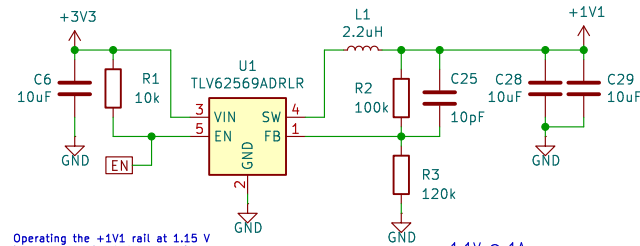


RAM VCC / ULPI VCCIO



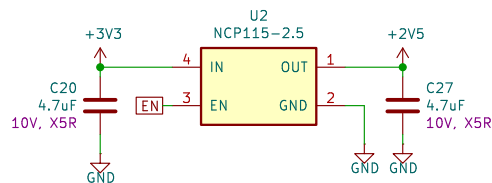
USB3343: fine with VCCIO at 1V8 or 3V3.
PSRAM: depends on the RAM chip chosen
Both ULPI VCCIO and RAM VCC are fed by this net,
as the associated ECP5 pins are on the same bank.

1V1 / VCORE



FPGA Supplies

2V5 / VCCAUX



Licensed under the CERN-OHL-S v2
S.Holzapfel, apfelaudio UG (haftungsbeschränkt)

Sheet: /power_supplies/
File: power_supplies.kicad_sch

Title: SoldierCrab

Size: A4 Date: 2024-06-04

KiCad E.D.A. 8.0.3

Rev: 2.0.0

Id: 8/8