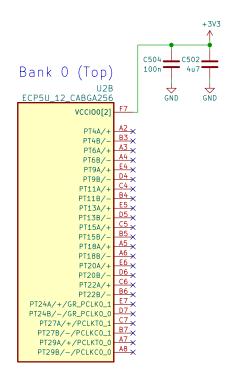
Following Black Mesa Lab's "S7 Mini" form factor

10 Banks



Bank 1 (Top)

ECP5U_12_CABGA256

PT33A/+/PCLKT1_1

PT33B/-/PCLKC1_1

PT35A/+/PCLKT1 C

PT35B/-/PCLKC1_0

PT38A/+/GR_PCLK1_0 PT38B/-/GR_PCLK1_1

VCCI01[2]

PT40A/

PT40B/

PT42B/

PT44R/

PT47B

PT49A/

PT51A/

PT53A/

PT56A/

PT56B/

PT58B/

PT60B/

PT62B/-

PT65A/+

PT65B/-

GND

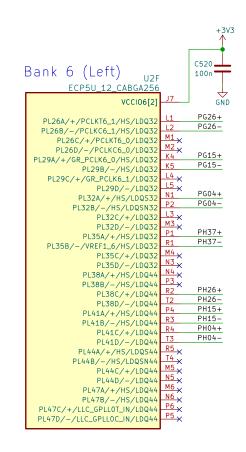
E8 USB_PU

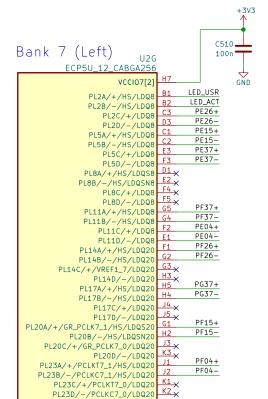
D8 × USB_D+

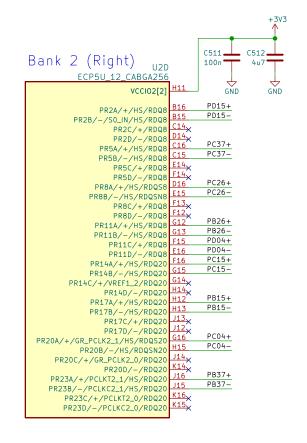
C9 USB_D-

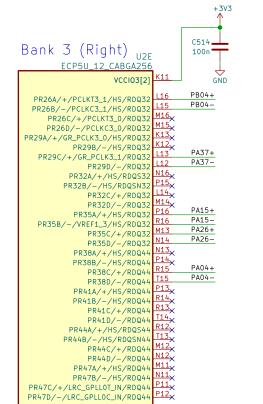
D9 ×
E9 ×
A9 ×
A10 ×
B10 ×
C10 ×
D10 ×
E10 ×
B11 ×
C11 ×
D11 ×
E11 ×
A11 ×
A12 ×
B12

C12 D12× E12× B13× C13× D13 E13 A13× A14× B14× A15×

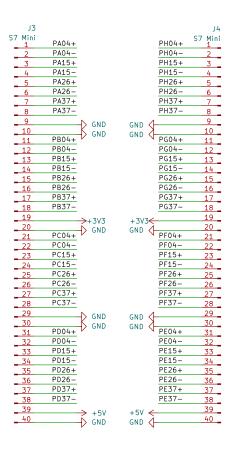




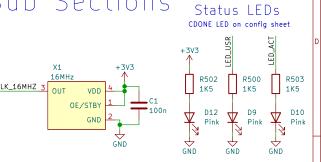


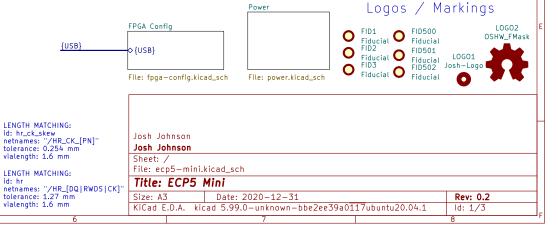


Breakout Pins



Sub Sections

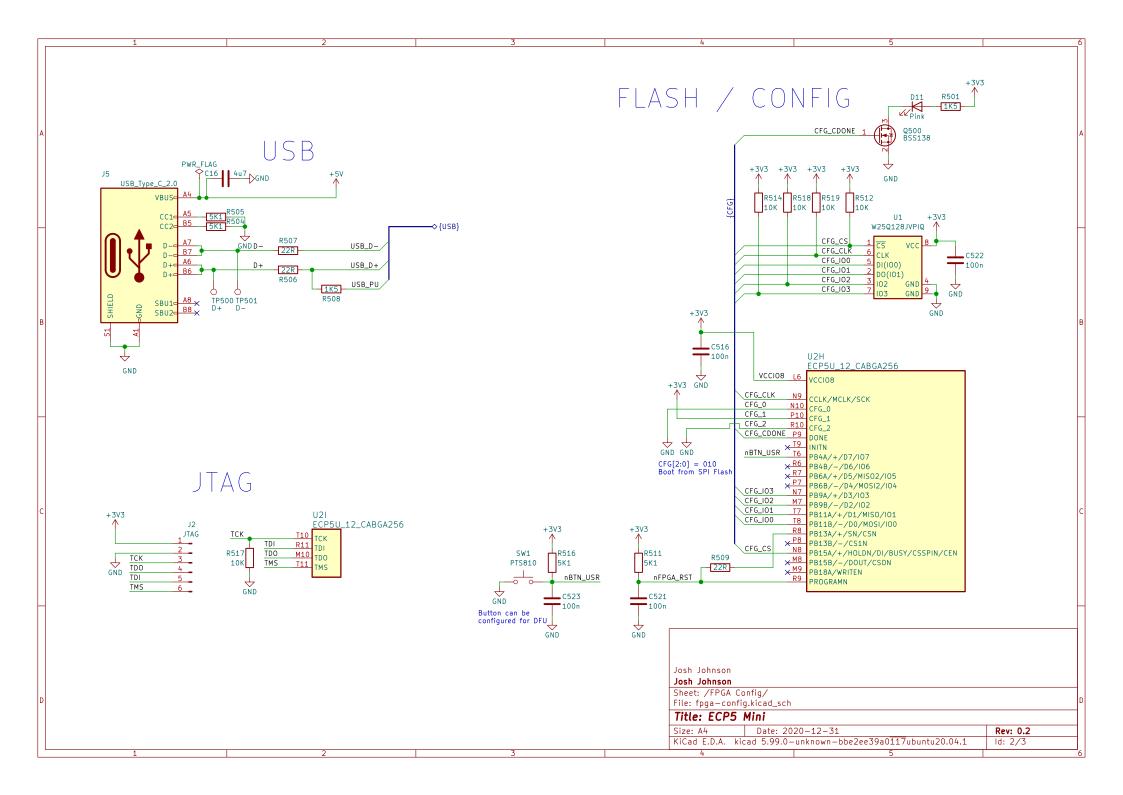




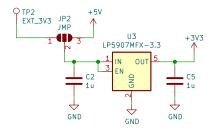
{USB}

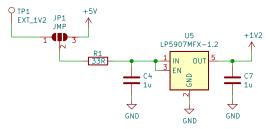
LENGTH MATCHING:

LENGTH MATCHING:

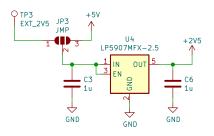


Power Supply



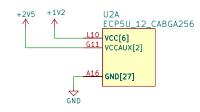


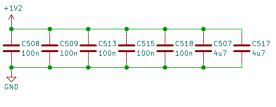
NOTE: 1V2 VCORE instead of 1V1 as specified for non 5G parts!





VCore







GND PWR_FLAG PWR_FLAG PWR_FLAG

PWR_FLAG +1V2

Josh Johnson

Josh Johnson

Sheet: /Power/

File: power.kicad_sch

Title: ECP5 Mini

Date: 2020-12-31 KiCad E.D.A. kicad 5.99.0-unknown-bbe2ee39a0117ubuntu20.04.1 Id: 5/3