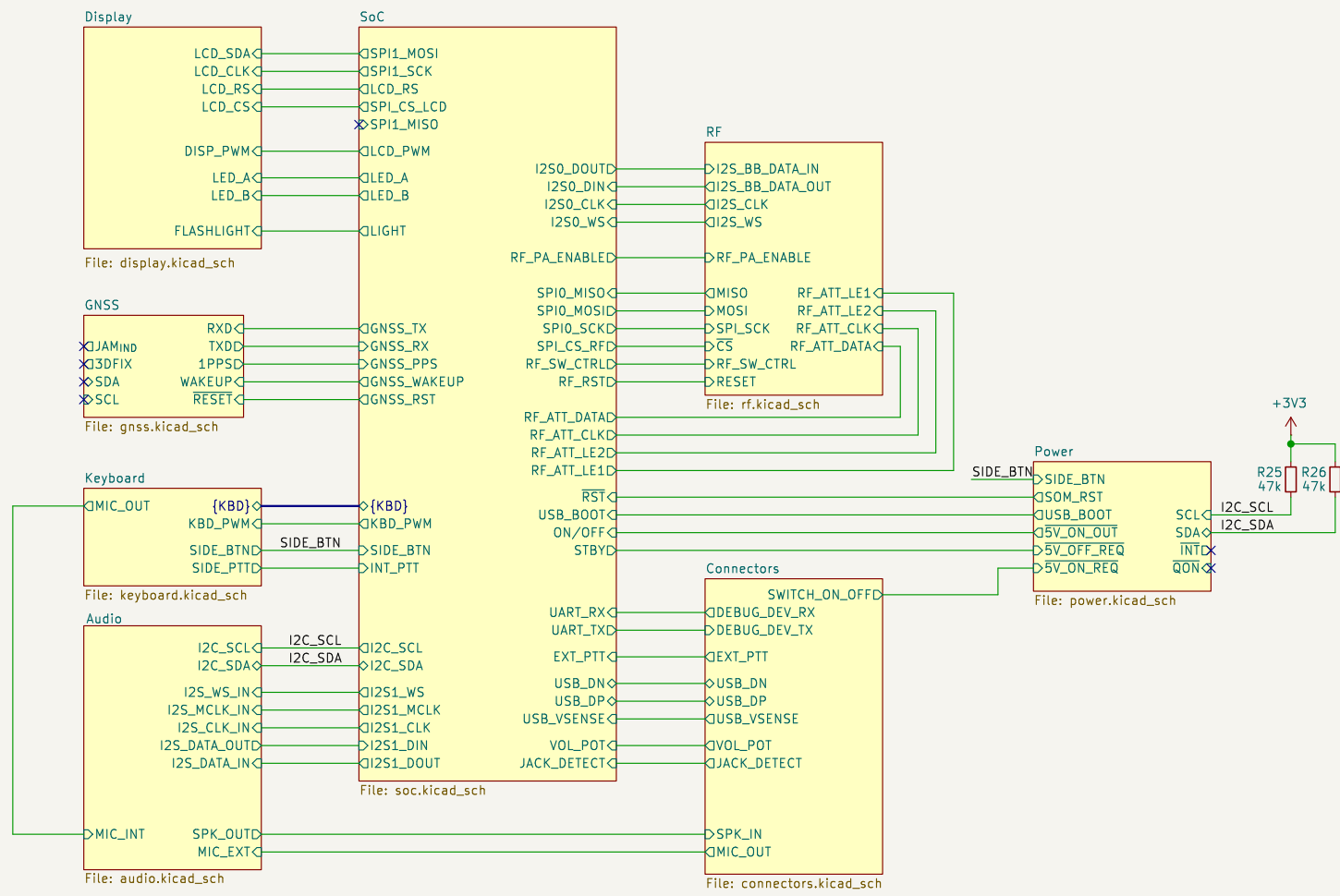
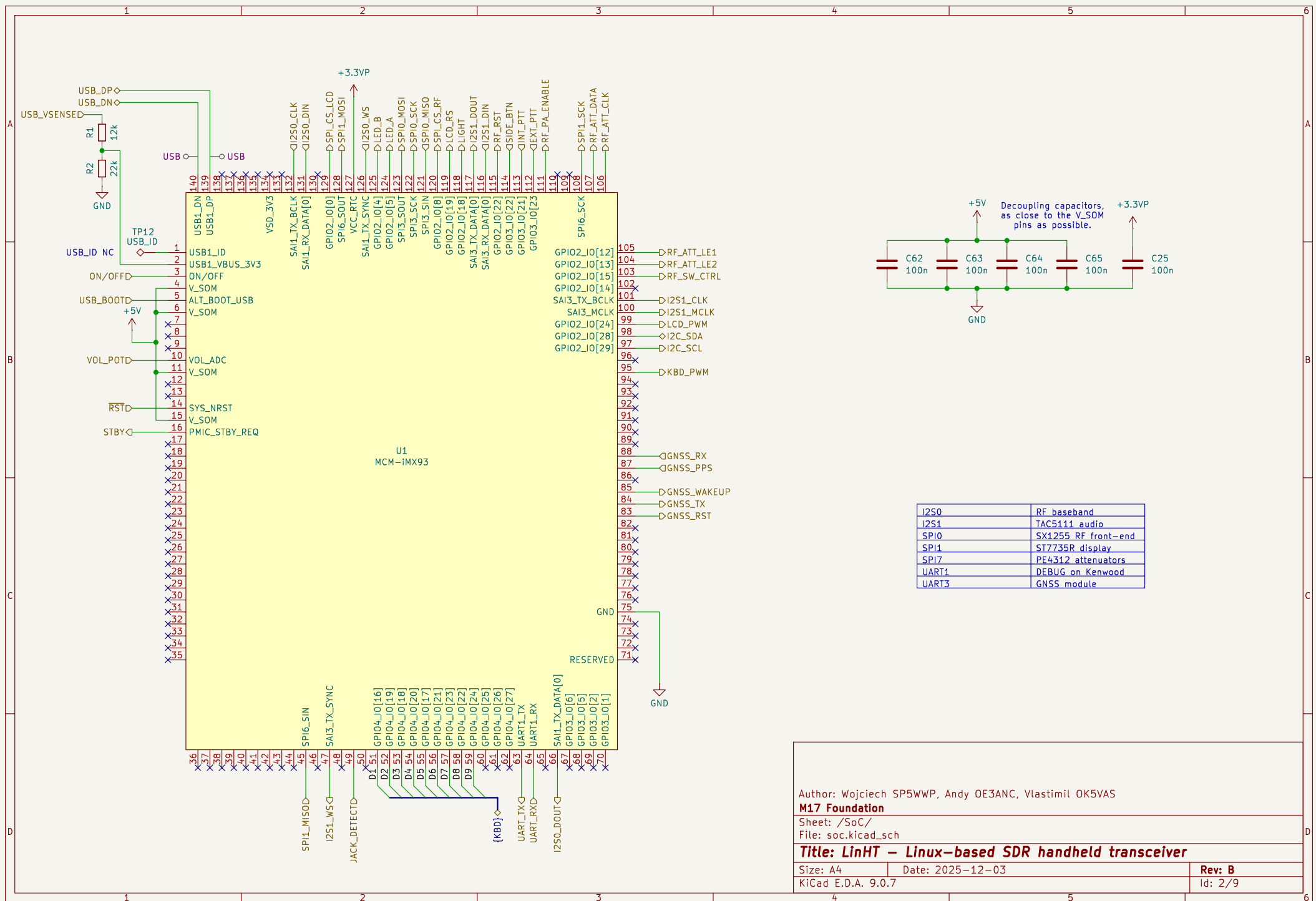






I2S0	RF baseband
I2S1	TAC5111 audio
SPI0	SX1255 RF front-end
SPI1	ST735R display
SPI7	PE4312 attenuators
UART1	DEBUG on Kenwood
UART3	GNSS module

Author: Wojciech SP5WWP, Andy OE3ANC, Vlastimil OK5VAS

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Sheet: /SoC/
File: soc.kicad_sch

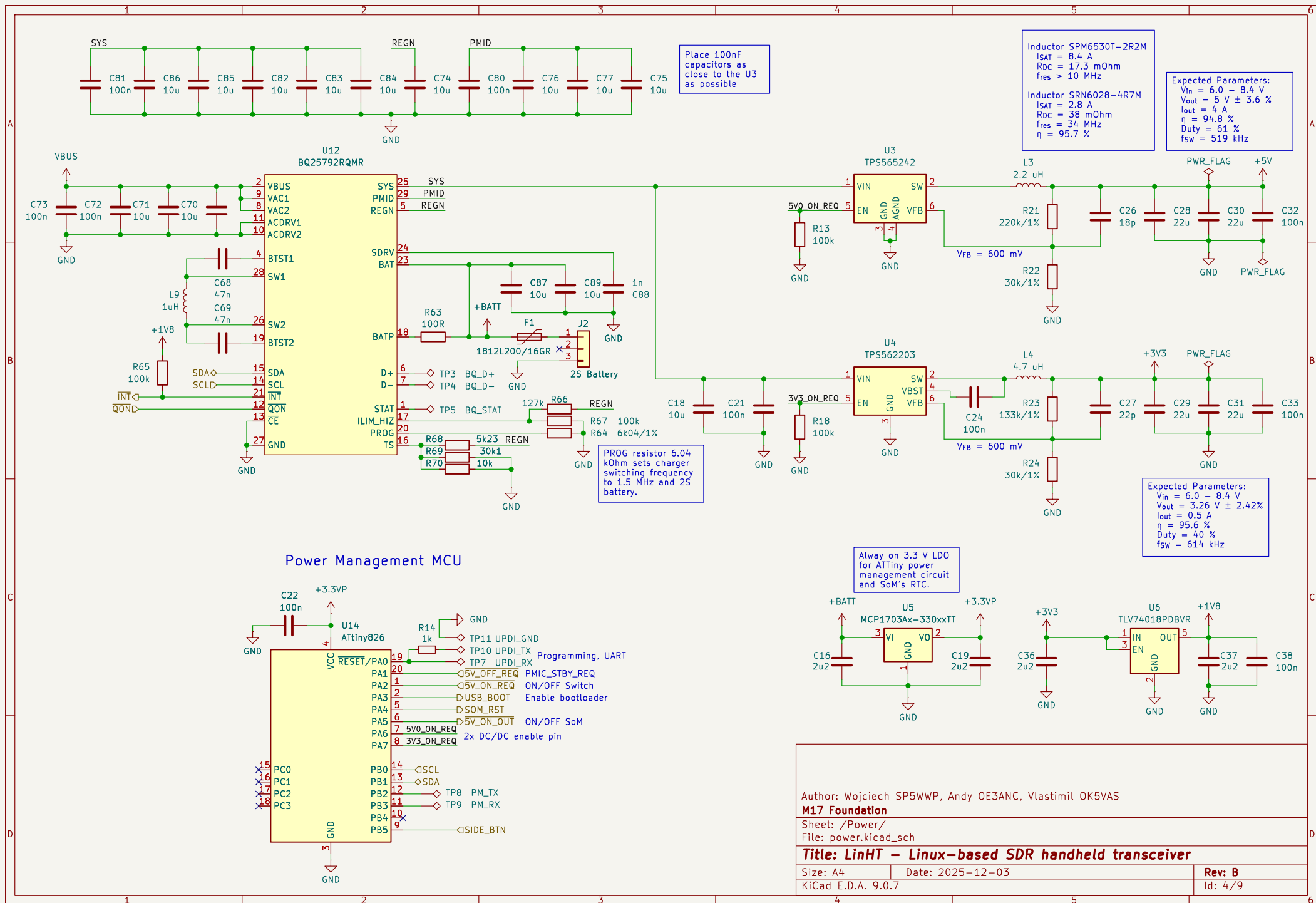
Title: LinHT – Linux-based SDR handheld transceiver

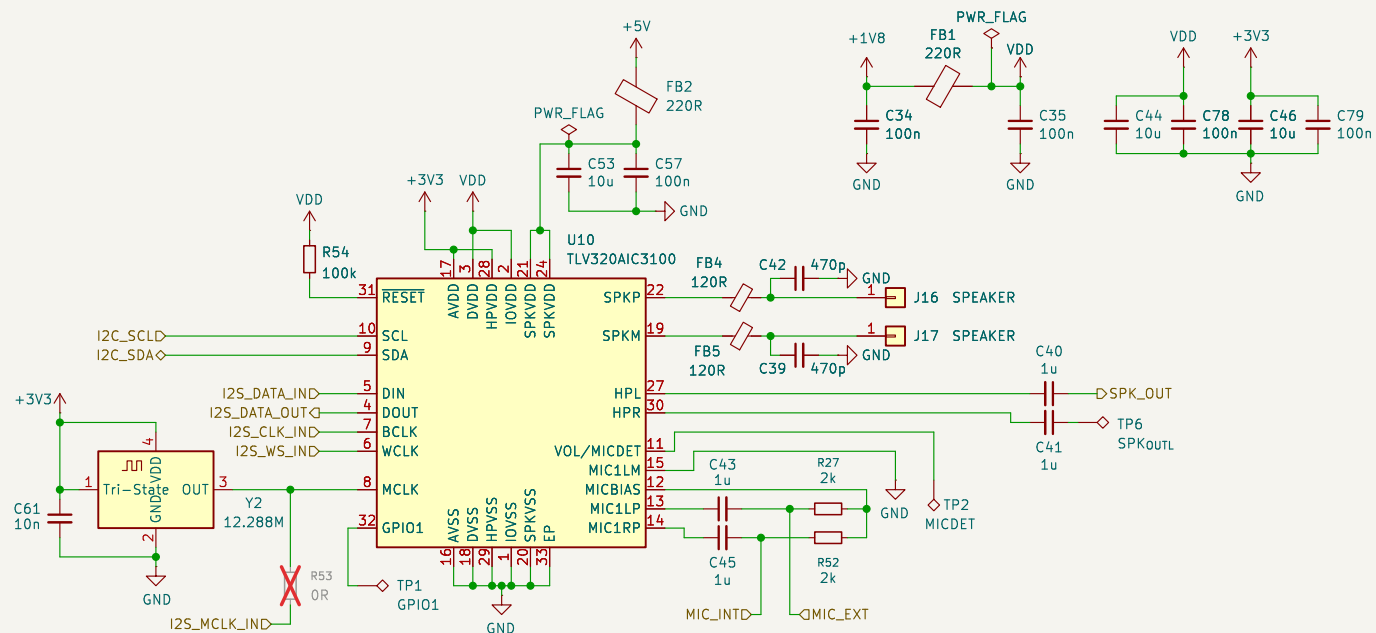
Size: A4	Date: 2025-12-03
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SIZE: A1	
KiCad E.D.A. 9.0.7	

Rev: B

Id: 2/9





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Sheet: /Audio/

File: audio.kicad_sch

Title: LinHT – Linux-based SDR handheld transceiver

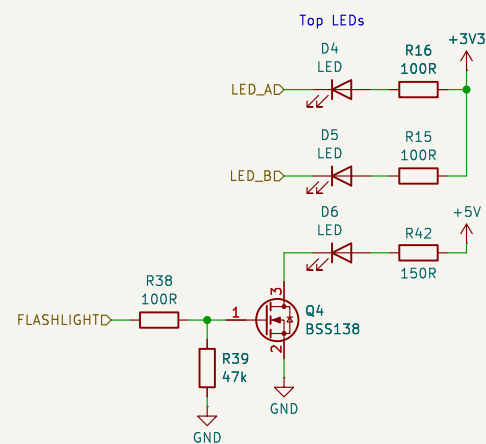
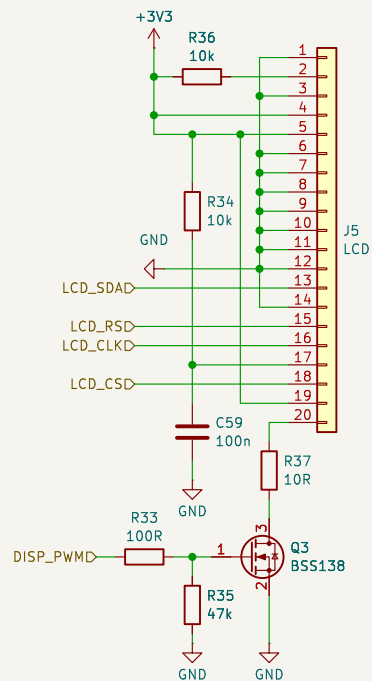
Size: A4

Date: 2025-12-03

Rev: B

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Id: 5/9



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Sheet: /Display/

File: display.kicad_sch

Title: LinHT – Linux-based SDR handheld transceiver

Size: A4

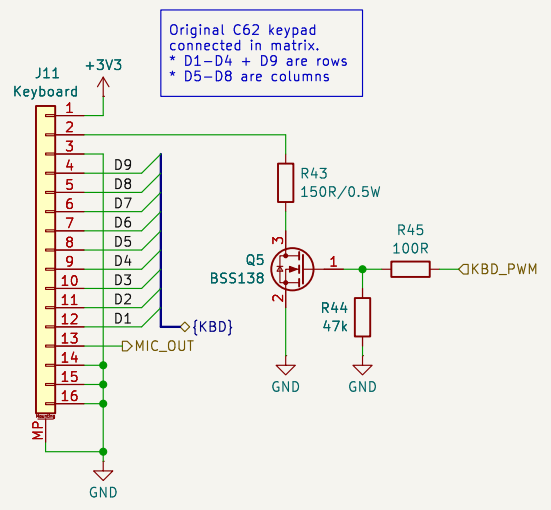
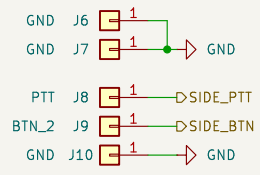
Date: 2025-12-03

Rev: B

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Id: 6/9

Solder pads for the side keys (buttons). These have their own PCB.



Original C62 keypad connected in matrix.
 * D1–D4 + D9 are rows
 * D5–D8 are columns

Author: Wojciech SP5WWP, Andy OE3ANC, Vlastimil OK5VAS
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Sheet: /Keyboard/
 File: keyboard.kicad_sch

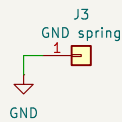
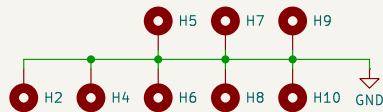
Title: LinHT – Linux-based SDR handheld transceiver

Size: A4	Date: 2025–12–03	Rev: B
KiCad E.D.A. 9.0.7		Id: 7/9

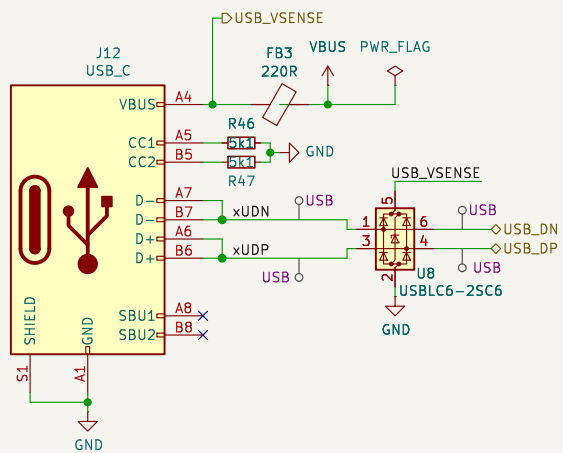
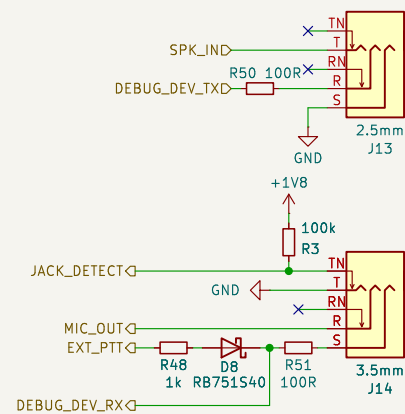
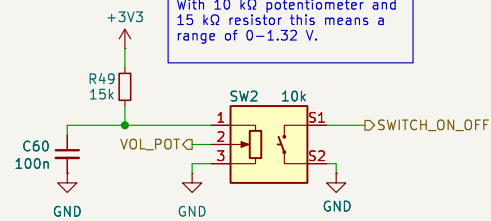
Original Retevis C62 PCB has these mounting holes:
 8× M2
 2× M2.5

Our new PCB will have:
 8× M2

Two M2.5 were removed due to conflict with the SoM.



ADC $V_{ref} = 1.8\text{ V}$
 With 10 kΩ potentiometer and 15 kΩ resistor this means a range of 0–1.32 V.



Author: Wojciech SP5WWP, Andy OE3ANC, Vlastimil OK5VAS

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Sheet: /Connectors/

File: connectors.kicad_sch

Title: LinHT – Linux-based SDR handheld transceiver

Size: A4

Date: 2025-12-03

Rev: B

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Id: 8/9

