

Authors: Wojciech SP5WWP, Leo Hofer, Morgan ON4MOD

M17 Project

Sheet: /

File: OpenHT-RF.kicad_sch

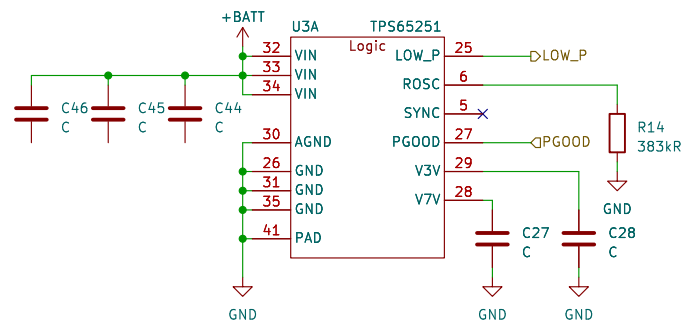
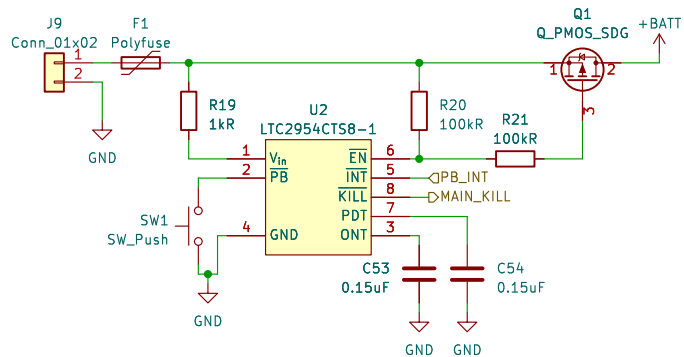
Title: OpenHT – open source SDR handheld

Size: A4 Date: 2023-02-17

KiCad E.D.A. kicad (7.0.0)

Rev: A

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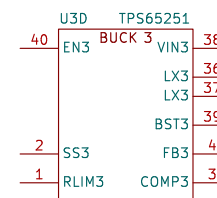
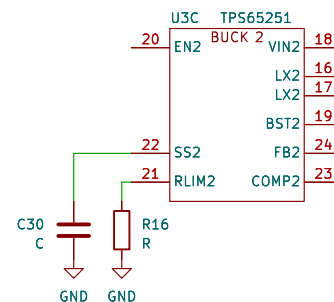
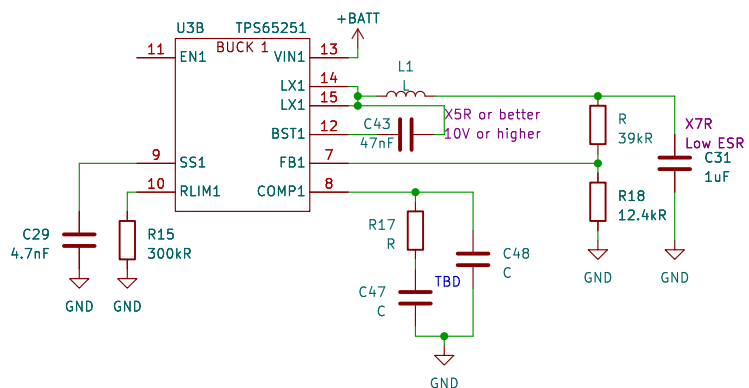


SS capacitors:
4.7nF corresponds to a soft start of about 1ms.
This value can be changed if we want to reduce
the number of different components in the BOM

Buck 1:
L: optimised for $V_{out}=3.3V$, $I_{out}=0.35A$, $f_{sw}=500kHz$
 C_{out} must be $> 0.56\mu F$ (optimised for $dV=30mV$)
 R_{lim} : set to max value (correspond to 1.2A)

Buck 2 has higher low-load efficiency and should
thus be selected to provide the rail with the lesser
load.

1.8V and 1.0V rails feed the FPGA. See with
SP5WWP for the details on FPGA's current
consumption



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Sheet: /Power supply/

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