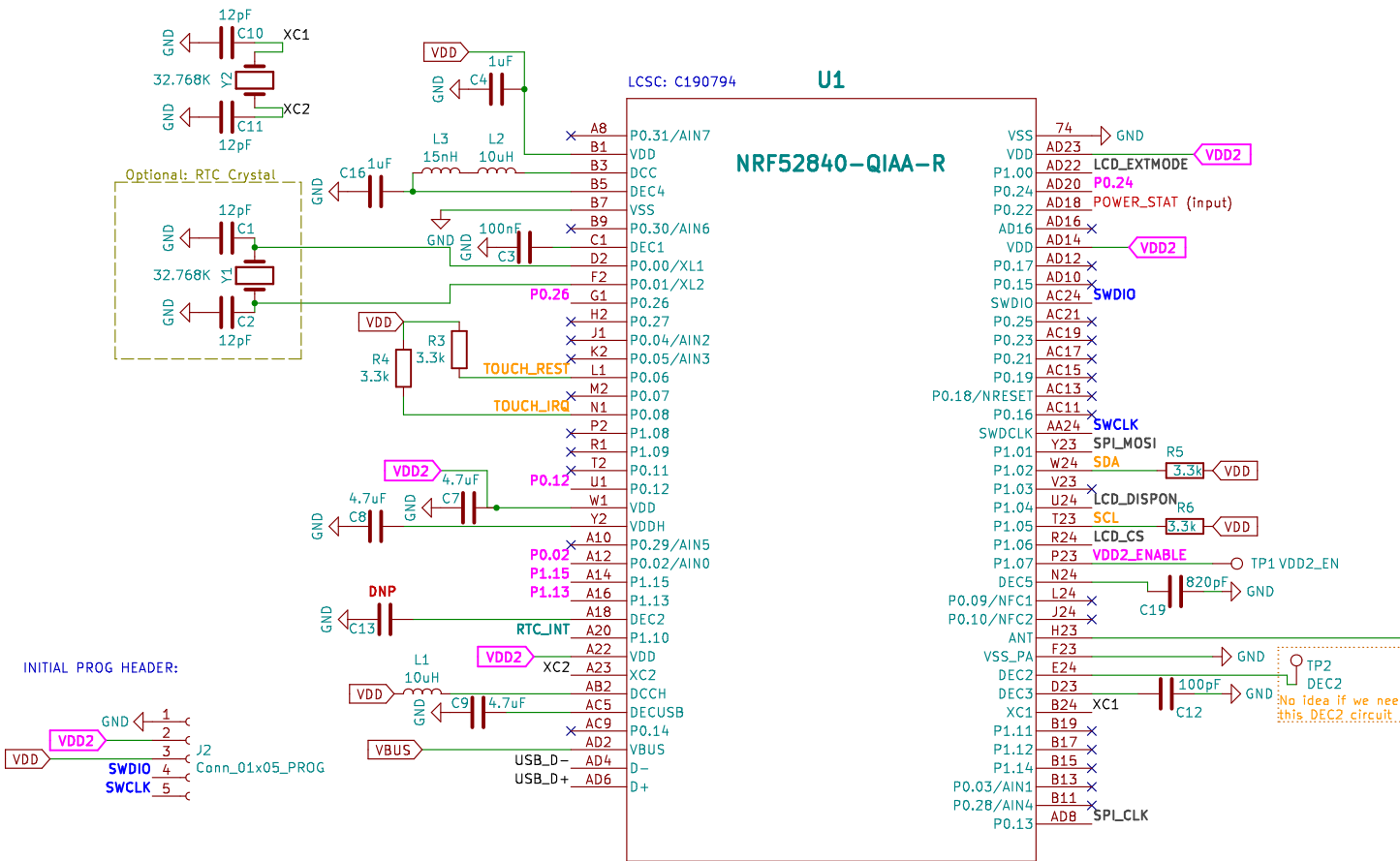


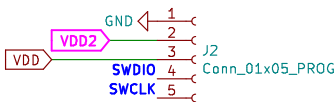
electronics design  
C & C++ coding

github.com/martinberlin  
fasani.de

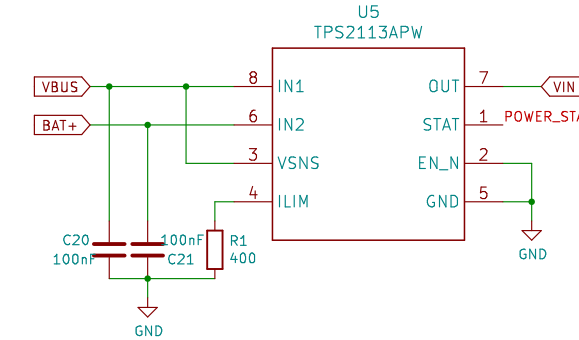
+34 698934633  
martin@cale.es



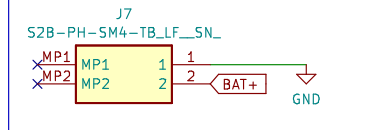
INITIAL PROG HEADER:



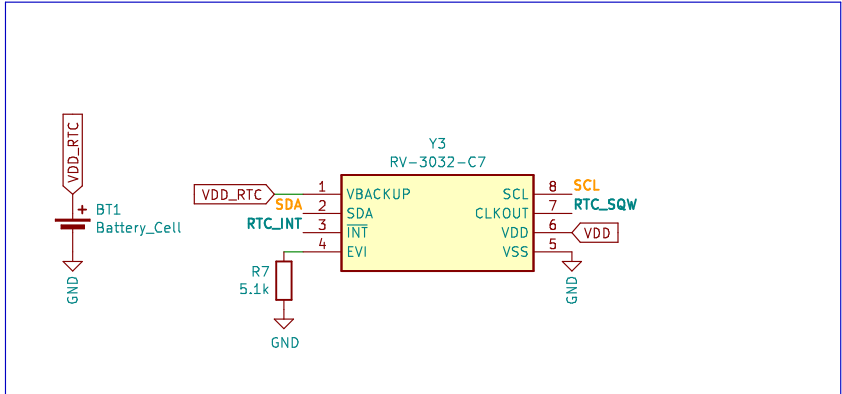
POWER, Battery or USB ?



Battery jack



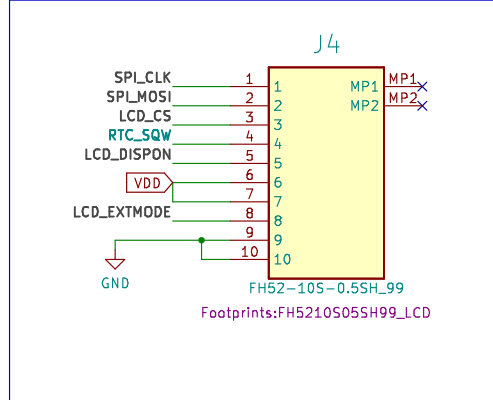
RTC SQW GENERATOR FOR LCD



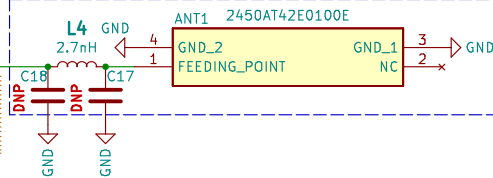
DESIGN REFERENCES

- https://resources.altium.com/p/getting-started-nrf52-mcu-pcb
- https://github.com/mike-rankin/nRF52832\_Oled\_Board Thanks Mike!

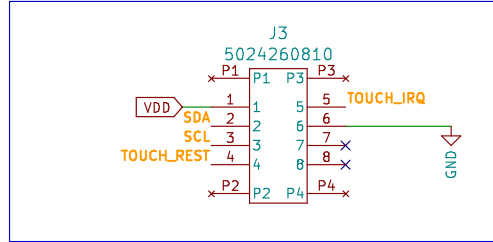
10 FPC SHARP LCD connector



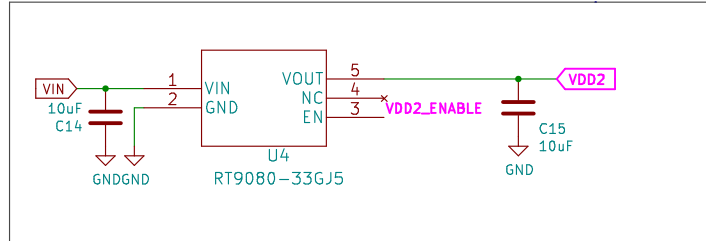
CHIP ANTENNA



MOLEX ATMEI TOUCH CONNECTOR 8 PINS



PERIPHERALS POWER



LCD PINOUT REFERENCE

Sharp Memory Display Connector as detailed in Datasheet  
[https://cdn.sparkfun.com/assets/d/e/8/9/7/LS01387DH03\\_datasheet.pdf](https://cdn.sparkfun.com/assets/d/e/8/9/7/LS01387DH03_datasheet.pdf)

Pin	Function	Notes
1	SCLK	Serial Clock
2	MOSI	Serial Data Input
3	CS	Serial Chip Select
4	EXTCOMIN	External COM Inversion Signal <- Fed by RTC_SQW
5	DISP	Display On(High)/Off(Low)
6	VDDA	Analog power supply
7	VDD	Digital 3.3-5.0V (into LDO supply)
8	EXTMODE	COM Inversion Select (Low = SW clock/serial)
9	GND	
10	VSSA	-> GND