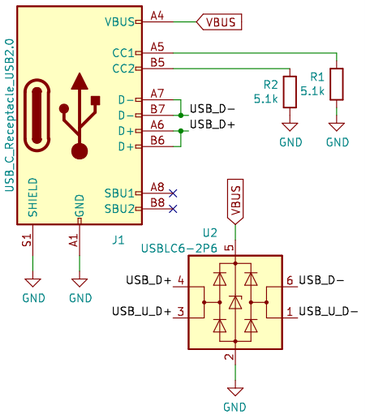
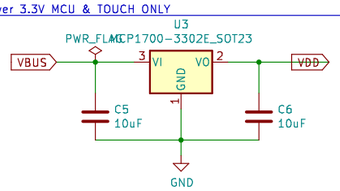
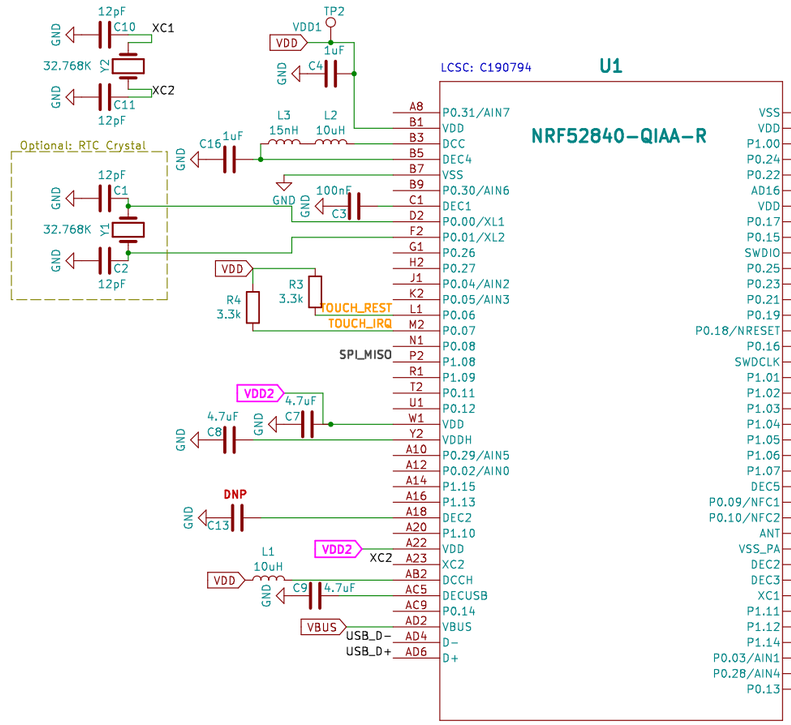
USB-C JTAG / CDC Serial to MCU



Power 3.3V MCU & TOUCH ONLY

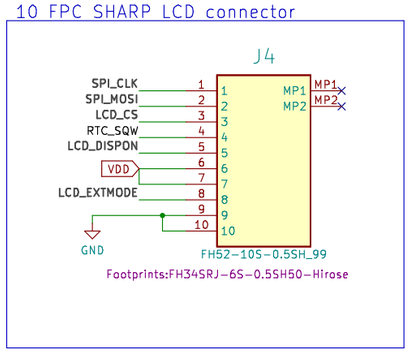


DESIGN REFERENCES
1. https://resources.altium.com/p/getting-started-nrf52-mcu-pcb
2. https://github.com/mike-rankin/nRF52832_Oled_Board Thanks Mike!

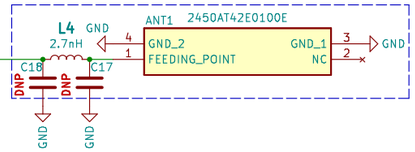


INITIAL PROG

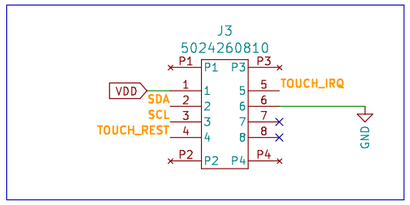
10 FPC SHARP LCD connector



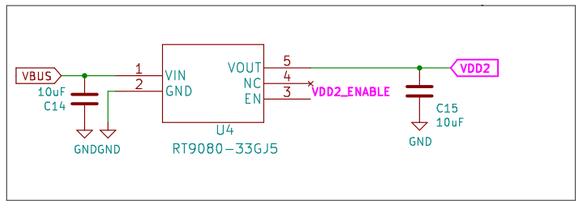
CHIP ANTENNA



MOLEX ATMEL 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/LS013B7DH03_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

Thanks to Larry Bank for the Insights & Tests
This board aims to be a low consumption driver for SHARP LCDs
with optional touch support and external resonator to generate the SQW
required to keep display running while MCU sleeps

Fasani Corp.

Sheet: /
File: Sharp-LV.kicad_sch

Title: Sharp Low consumption Versatile board

Size: A3	Date: 2024-05-28	**Rev: 1.0**
KiCad E.D.A. kicad 7.0.11-7.0.11~ubuntu22.04.1		Id: 1/1