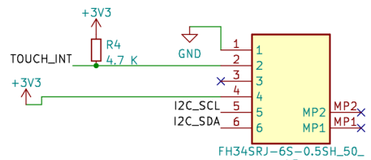
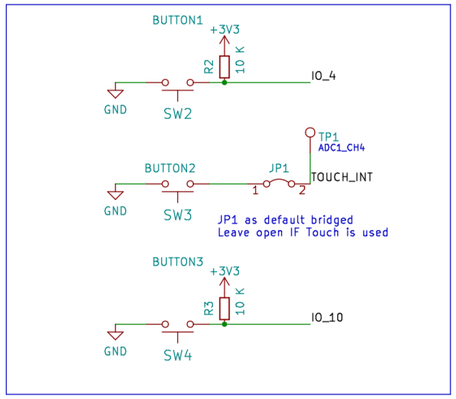
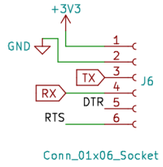
6 FPC Touch I2C connector



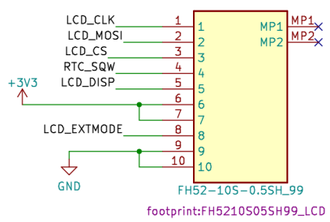


UART CONNECTION



H1 MountingHole
H2 Not included in PCB (no space) MountingHole
H3 MountingHole

10 FPC LCD connector

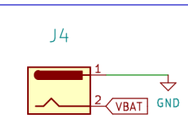


LCD pinuout:

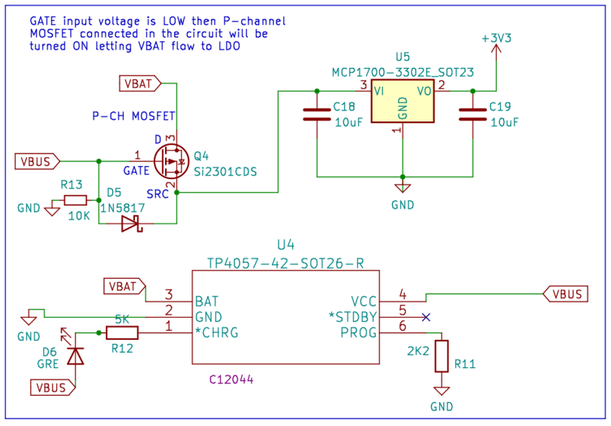
Sharp Memory Display Connector as detailed in Datashet
https://cdn.sparkfun.com/assets/d/e/8/9/7/LS013B7DH03_datasheet.pdf

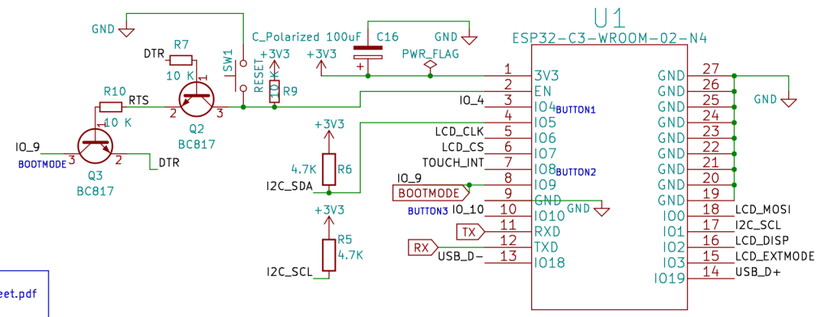
Pin	Function	Notes
1	SCLK	Serial Clock
2	MOSI	Serial Data Input
3	CS	Serial Chip Select
4	EXTCOMIN	External COM Inversion Signal <- Fed by RTC_SQW
5	DISP	Display On(High)/Off(Low)
6	3V3	3.3V out
7	VIN	3.3-5.0V (into LDO supply)
8	EXTMODE	COM Inversion Select (Low = SW clock/serial)
9	GND	
10	VSSA	-> GND

Battery jack

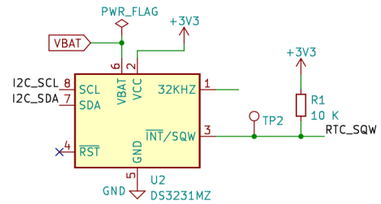


Charge and power management





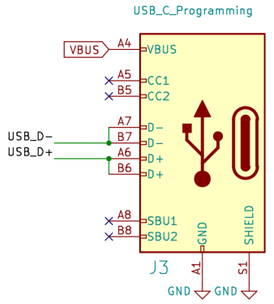
DS3231 Real time clock via I2C



TO-DOs for Release 1.1

Thanks to Larry @bitbank2 for testing this PCB!

1. Correct layout so LCD bends nicely
2. Add pull-up to DISP pin in LCD
   That way ESP32C3 can go to deepsleep withouth holding IO2 high
3. Change R12 to led to make it consume less and put it on STDBY pin of TP4057



ADC1_CH4 = IO4
Just offered like Touch Point TP1

IMPORTANT: This PCB does not have UART Chip.
USB just connects to the IOs specified in C3-mini datasheet for USB_D- (18) and USB_D+ (19)
TOUCH_INT IO8 needs to be pulled-high during boot to enter download mode and be able to program the MCU