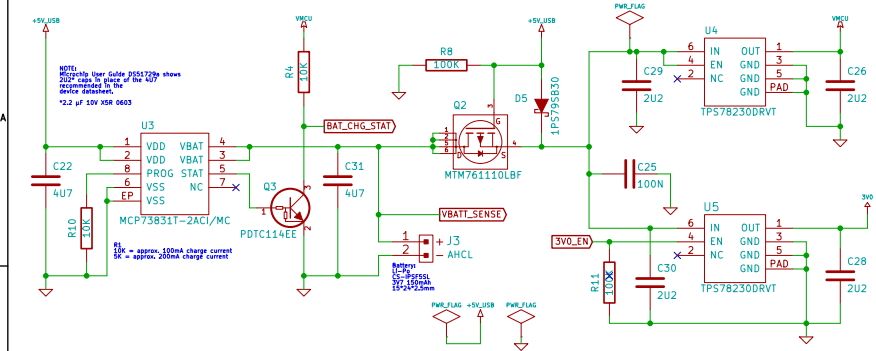
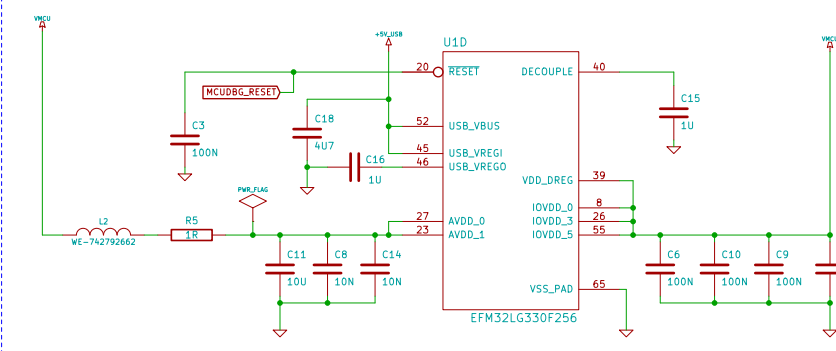


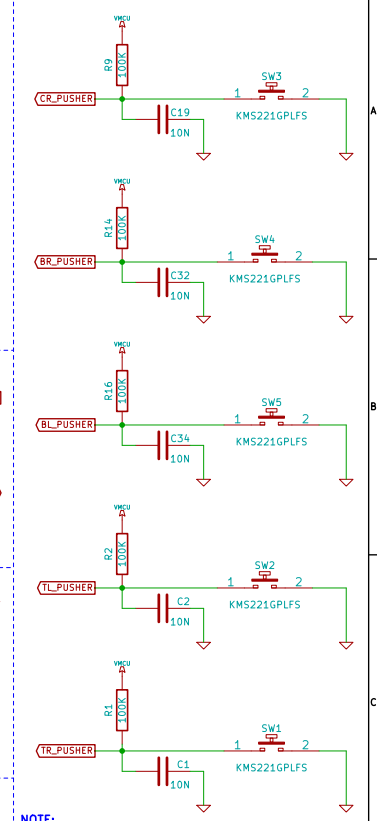
USB Battery Charger and VMCU Regulator



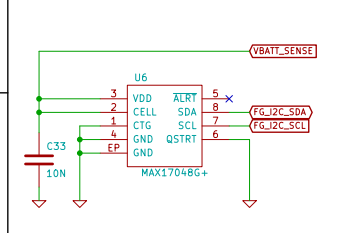
Power Supply Decoupling



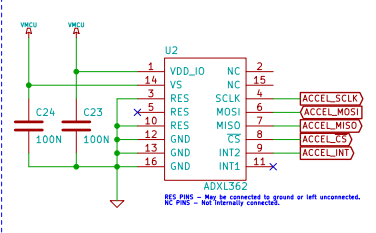
Pushers | Buttons (tact switches)



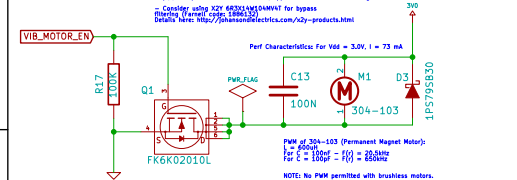
LiPo Fuel Gauge



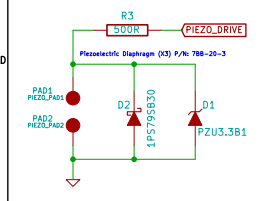
Accelerometer



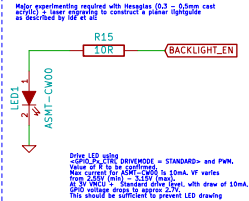
Vibratory Motor



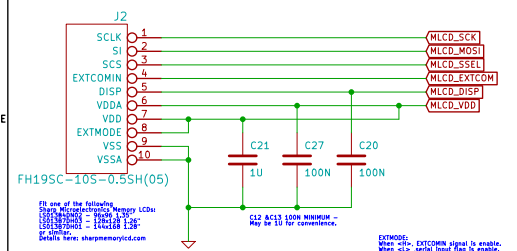
Piezoelectric Diaphragm



Backlight



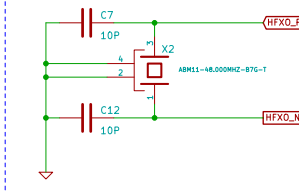
Display – Sharp Microelectronics Memory LCD



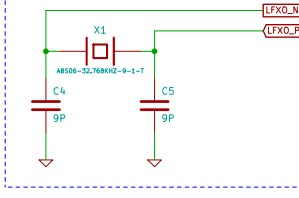
NOTES

- THIS IS A WORK IN PROGRESS. CONSIDER IT A STARTING POINT. Latest version is available at: github.com/hairykiwi/OTM-02
- U1 Pin/function locations to be optimised according to PCB layout requirements.
- All XX_PUSHER MCU inputs coincide with Low Energy Sense (LES) inputs for potential implementation of capacitive touch button UI.

High Frequency Clock

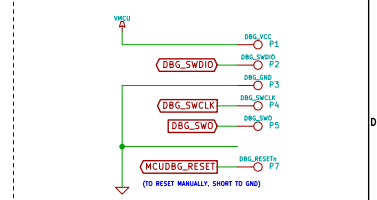


Low Frequency Clock

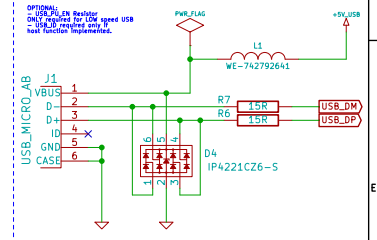


NOTE:
The above switch circuits require software debounce to be implemented.

Debug Interface



USB MICRO AB Connection



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Send comments, feedback, suggestions to: Hamish Mead
Info at meadtimemachines dot co dot uk

With thanks to Microchip, Sparkfun and Olimex for the recharge circuit topology, to Mark Burton at SmartAvionics.com and the energy friendly people at Energymicro.com for the ongoing discussions and much valued advice.

File: OTM-02.sch	© Hamish Mead 2012-2013 – Licensed CC-BY-SA
Sheet: 1/1	Title: OTM-02 – Open source Time Machine #2
Size: A3	Date: 10 feb 2013
KiCad E.D.A.	Rev: M
	Id: 1/1