

follows Raspberry Pi 3-pin Debug Connector Specification (SWD)

J3

BM03B-SRSS-TB

MP

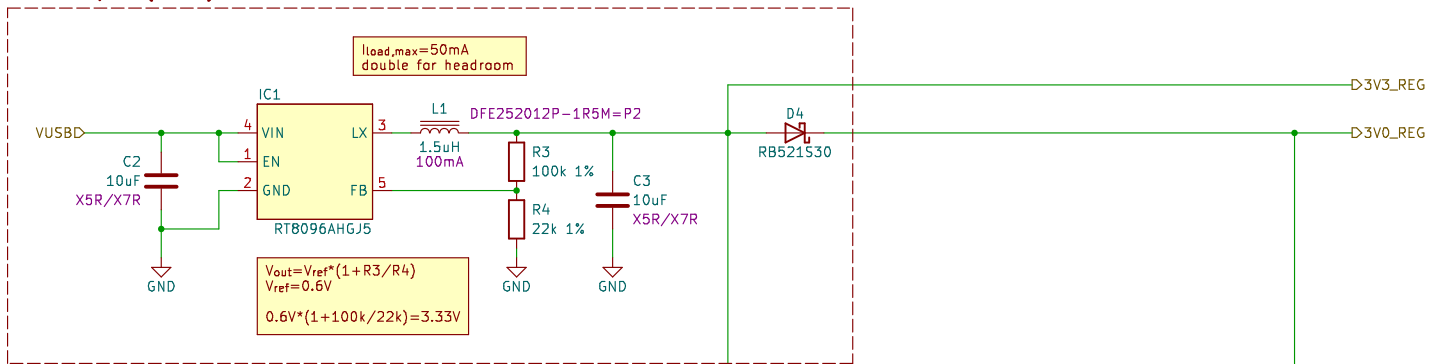
1 2 3

SWCLK

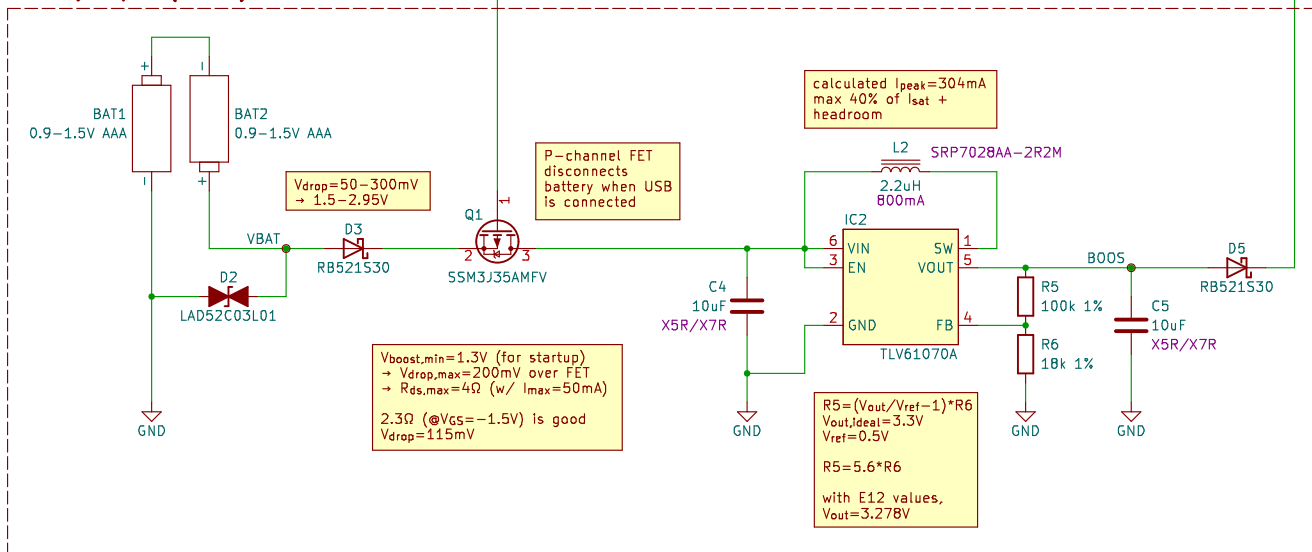
SWD

GND

## USB input (buck)



## battery input (boost)



gkos pebble

battery/USB power input and 3V power supply

drawn by minteyay

revision 1

2024-03-25

A4 size

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USB\_BOOTD

R7  
1k

R8  
DNF  
10k

U1  
W25Q64JVZPIQ

QSPICS 1  
QSPISCLK 6  
QSPISD0 5  
QSPISD1 2  
QSPISD2 3  
QSPISD3 7

CS 8  
CLK  
DI(I/O)  
DO(I/O)  
IO2  
IO3

VCC  
GND

+3V0

C8  
100nF

GND

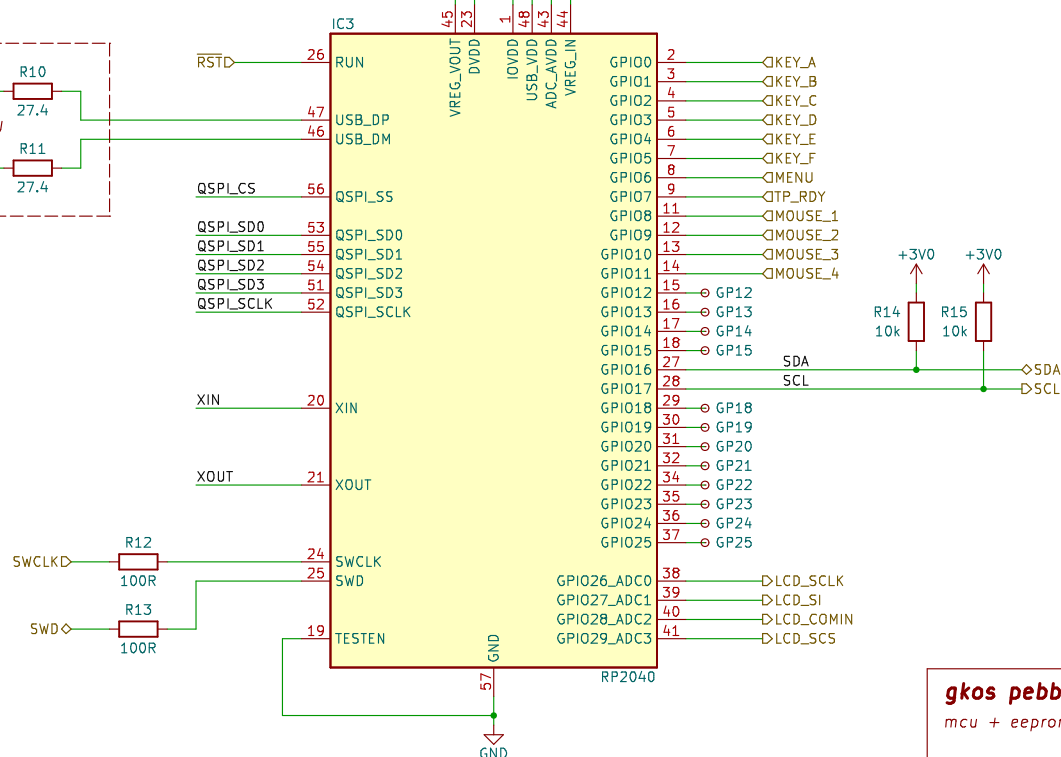
The diagram shows the power supply for the USB\_VDD pin. A +3V0 source is connected to the anode of a Schottky diode (D6, RB521S30). The cathode of the diode is connected to the +3V3 source. The output of the diode, which is at +3V0, is connected to the USB\_VDD pin. This output is also connected to a 100nF capacitor (C12) to ground. A yellow callout box explains: "USB\_VDD is supplied from before the power schottkies for a higher voltage to meet the USB\_PHY requirements. 3V0 is fed through a schottky to avoid putting 3V3 on the 3V0 net on USB power, but to still supply the required 1.8-3.3V on battery power."

Other components shown include a 1uF capacitor (C11) connected to the VREG pin, and a series of decoupling capacitors (C13-C20) connected to the +3V0 source. C13 is 1uF, and C14 through C20 are 100nF each, totaling 7 x 100nF. There are also two 100nF capacitors (C9, C10) connected to the VREG pin.

USB\_D+ —  $\diamond$  — USB\_D+ — R10 — 27.4

*Place resistors close to MCU*

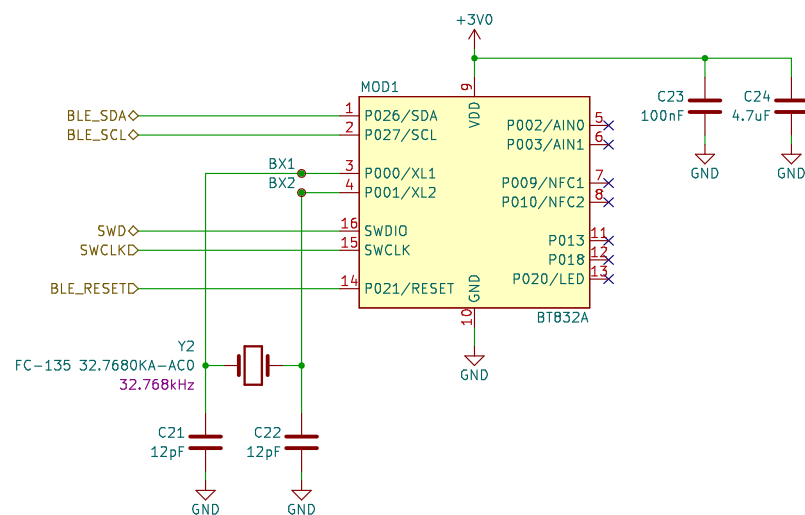
USB\_D- —  $\diamond$  — USB\_D- — R11 — 27.4



QSPI_SD0	FD0
QSPI_SD1	FD1
QSPI_SD2	FD2
QSPI_SD3	FD3
QSPI_SCLK	FCL
QSPI_CS	FCS

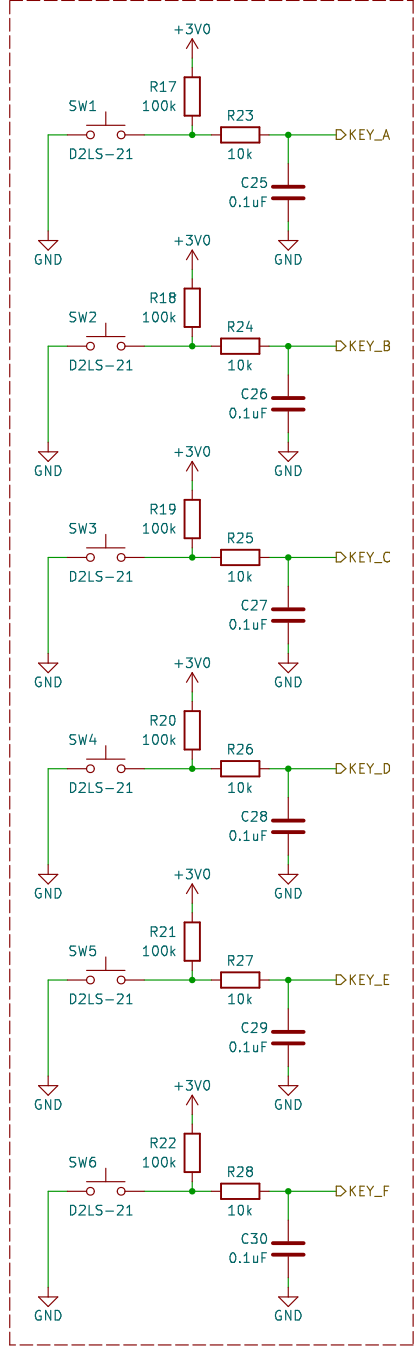
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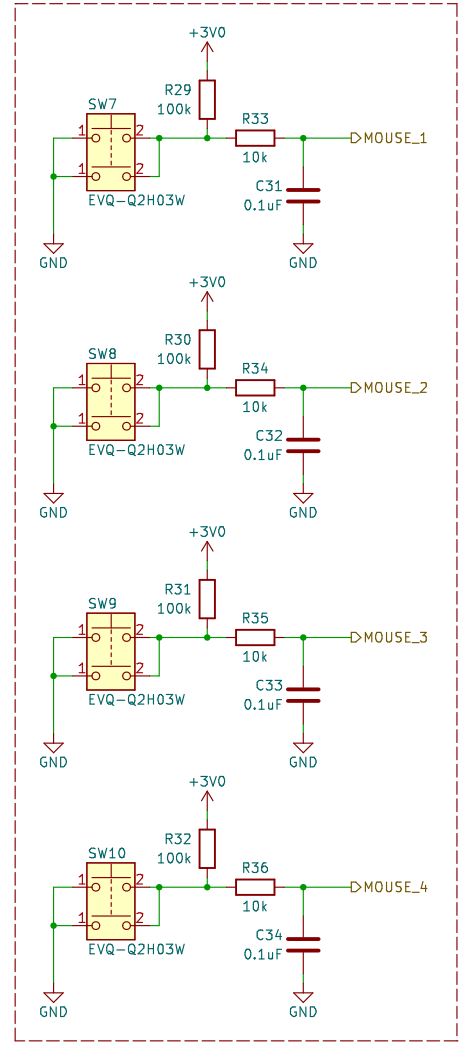


<b>gkos pebble</b> Bluetooth Low Energy module		
drawn by minteyay		<b>revision 1</b>
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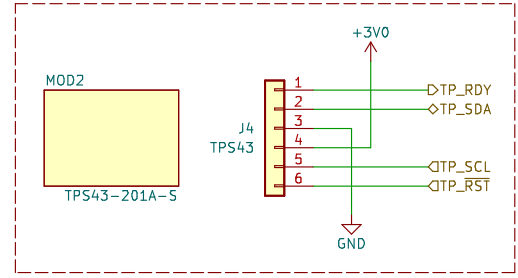
### keyboard switches



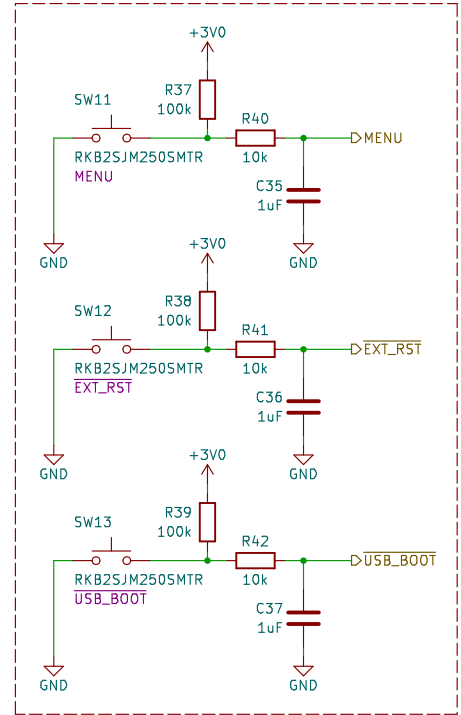
### mouse buttons



### trackpad



### extra buttons



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user inputs

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