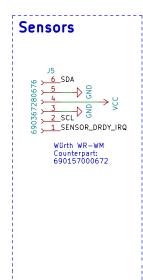
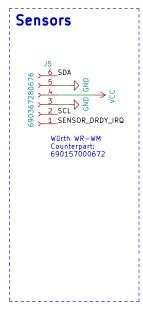


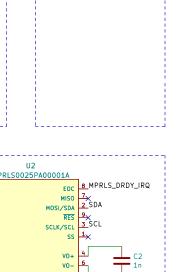
J1

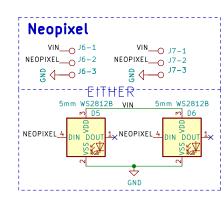
 $\frac{1}{2} \xrightarrow{\stackrel{\square}{V}} \stackrel{\square}{V}$

____4_SDA









Notes on Button2:

Pressure sensor

* D6/GPI018 can be used to detect if there is 3V3 on button 2

EITHER

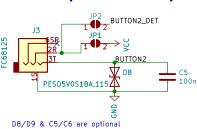
VCC

* If JP1 is closed, a 3pin Jackplug can be connected, which carries 3V3, GND and a GPIO pin

Notes on pressure sensor:

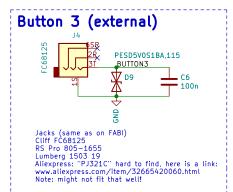
- * An MPRLS sensor is used on the mainboard normally
- * Alternative: attach sensor board with I2C





Note: if external power supply is needed (e.g. sensor connected via jack plug), bridge JP1. Via pin D3 (input_pulldown) the voltage can be detected.

Button 2 is connected to D1 (v2 & v3 board) and

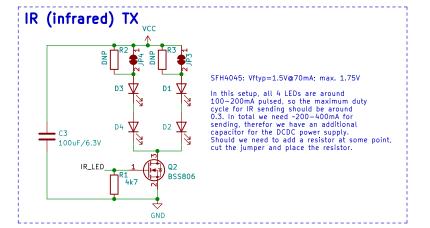


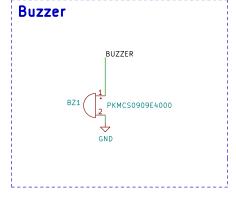


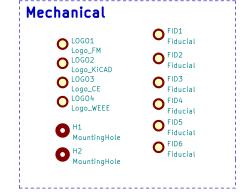
Changes for v3.2: -) 2x2 SFH4045 LEDs without R (but possibility) -) move MPRLS DRDY to a RP2040 pin -) pulldown on FET gate -) remove all THT stuff -) remove MPXV in general -) change footprint of OLED -) resistor buzzer -> removed -) connector sensorboard (Würth WM-MM) -) capacitor for IR LEDs -) moved all SMD parts to top (except Arduino)

IR (infrared) RX









Orders in addition to Schematic BOM

FLipMouse

- * Silicon tube, 2x4mm, 45mm length
- * PVC/PE tube 4x6mm, 5mm length
- * LuerLock with M5 screw
- * Sensor board PCB (see second KiCAD project & BOM)
- * screws according to case (3x M2x12+nuts; 2x M2x20)
- * Mouthpiece
- * Sensorboard cable (6pin IDC + WR-MM 690157000672)

* Glide adapter PCB (see addons folder for KiCAD project & BOM)

- * 3D printed case (depending on type)
- * HotShoe Adapter
- * USB cable with magnetic plug
- * Packaging

These parts should be placed in the .xls BOM file.

v3.2

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AsTeRICS Foundation

Sheet: / File: FM3_mainboard.kicad_sch

Title: FLipMouse (FLipPad) Mainboard

Size: A3 Date: 2022-10-18
KiCad E.D.A. kicad 6.0.8+dfsg-1