

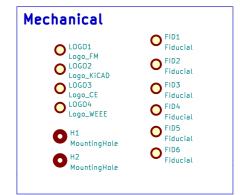
Changes for v3.3:

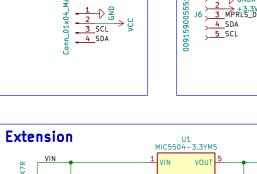
-) Replaced MPRLS with header for extra board
-) Added LDO for 3V3 ADC (used for MPRLS & NAU)
-) Moved I2C pullups to VADC as well
-) Added enable pin for VCC of both sensorboards
-) Moved Neopixel & increased pad size

IR (infrared) RX

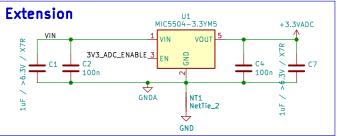
U4 TSOP4838

VCC





Extension



Notes on Button2:

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

MPRLS sensorboard

J6 SNDA

3 MPRLS_DRDY_RES

* 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 can be placed in the PCB connector
- * Additional sensors can be added via J1
- * I2C lines are pulled up to AVCC; because we need to switch

on/off the power of the sensors; if the pullups are connected to VCC it will power the sensors.

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)
- * MPRLS PCB (see second KiCAD project & BOM)
- * screws according to case (4x M2x10+nuts; 2x M2x16)
- * Mouthpiece
- * Sensorboard cable (6pin IDC cable 65mm + 2x 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.

v3.3

<beni@asterics-foundation.orq> Beniamin Aigner

Title: FLipMouse (FLipPad) Mainboard

Size: A3 Date: 2022-10-18
KiCad E.D.A. kicad 7.0.5+dfsg-2

AsTeRICS Foundation File: FM3_mainboard.kicad_sch