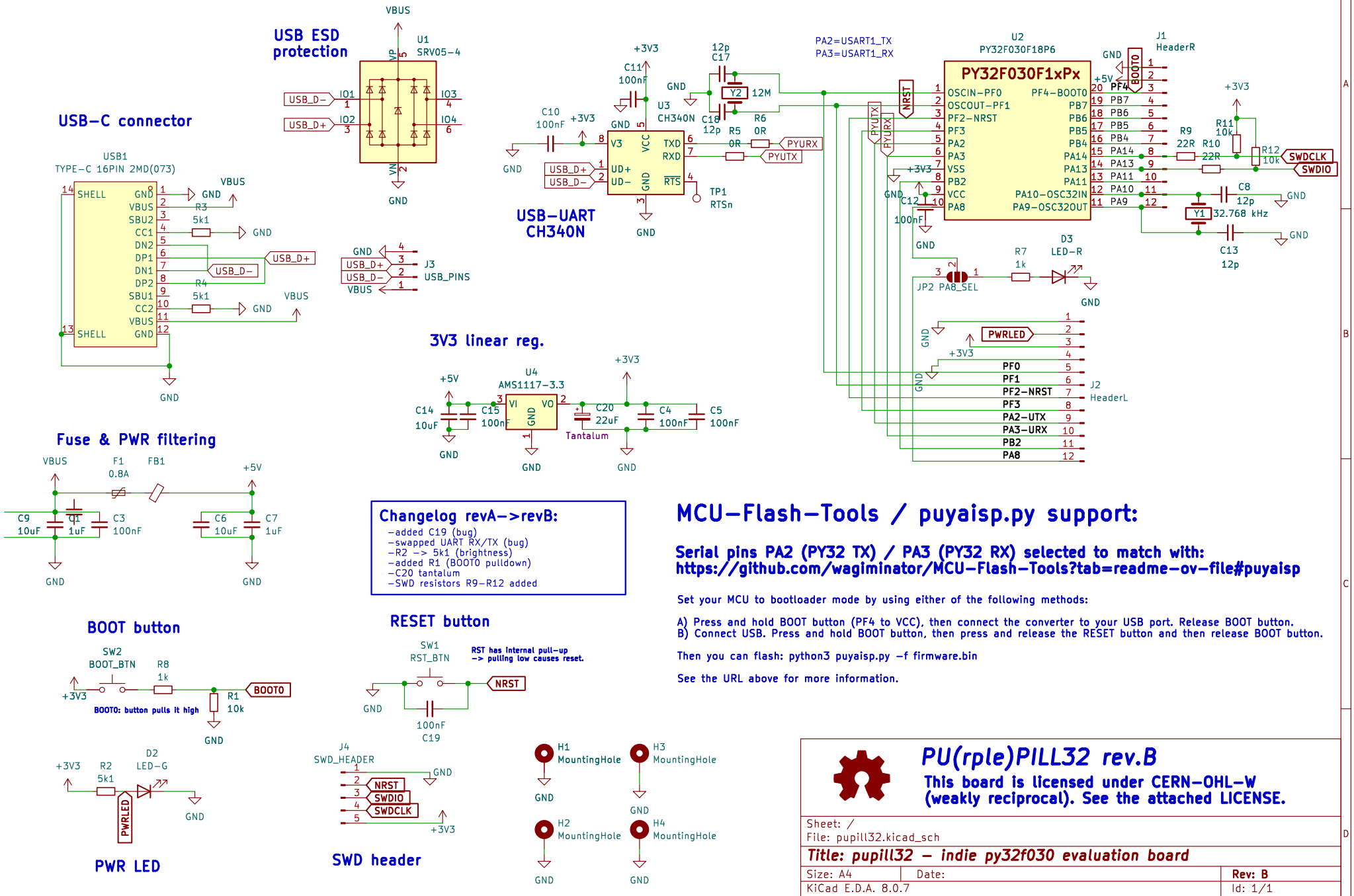
USB ESD protection
U1
SRV05-4
USB-C connector
USB1
TYPE-C 16PIN 2MD(073)
USB-UART CH340N
U3
CH340N
3V3 linear reg.
U4
AMS1117-3.3
Fuse & PWR filtering
F1
0.8A
FB1
BOOT button
SW2
BOOT_BTN
BOOT0: button pulls it high
RESET button
SW1
RST_BTN
RST has internal pull-up
-> pulling low causes reset.
PWR LED
SWD header
J4
SWD_HEADER
U2
PY32F030F18P6
PY32F030F1xPx
J1
HeaderR
J2
HeaderL
J3
USB_PINS
JP2 PA8_SEL
TP1
RTSn
Y1
32.768 kHz
Y2
12M
Changelog revA->revB:
-added C19 (bug)
-swapped UART RX/TX (bug)
-R2 -> 5k1 (brightness)
-added R1 (BOOT0 pulldown)
-C20 tantalum
-SWD resistors R9-R12 added
MCU-Flash-Tools / puyaisp.py support:
Serial pins PA2 (PY32 TX) / PA3 (PY32 RX) selected to match with:
https://github.com/wagiminator/MCU-Flash-Tools?tab=readme-ov-file#puyaisp
Set your MCU to bootloader mode by using either of the following methods:
A) Press and hold BOOT button (PF4 to VCC), then connect the converter to your USB port. Release BOOT button.
B) Connect USB. Press and hold BOOT button, then press and release the RESET button and then release BOOT button.
Then you can flash: python3 puyaisp.py -f firmware.bin
See the URL above for more information.
PU(rple)PILL32 rev.B
This board is licensed under CERN-OHL-W
(weakly reciprocal). See the attached LICENSE.
Sheet: /
File: pupill32.kicad_sch
Title: pupill32 - indie py32f030 evaluation board
Size: A4
Date:
Rev: B
KiCad E.D.A. 8.0.7
Id: 1/1