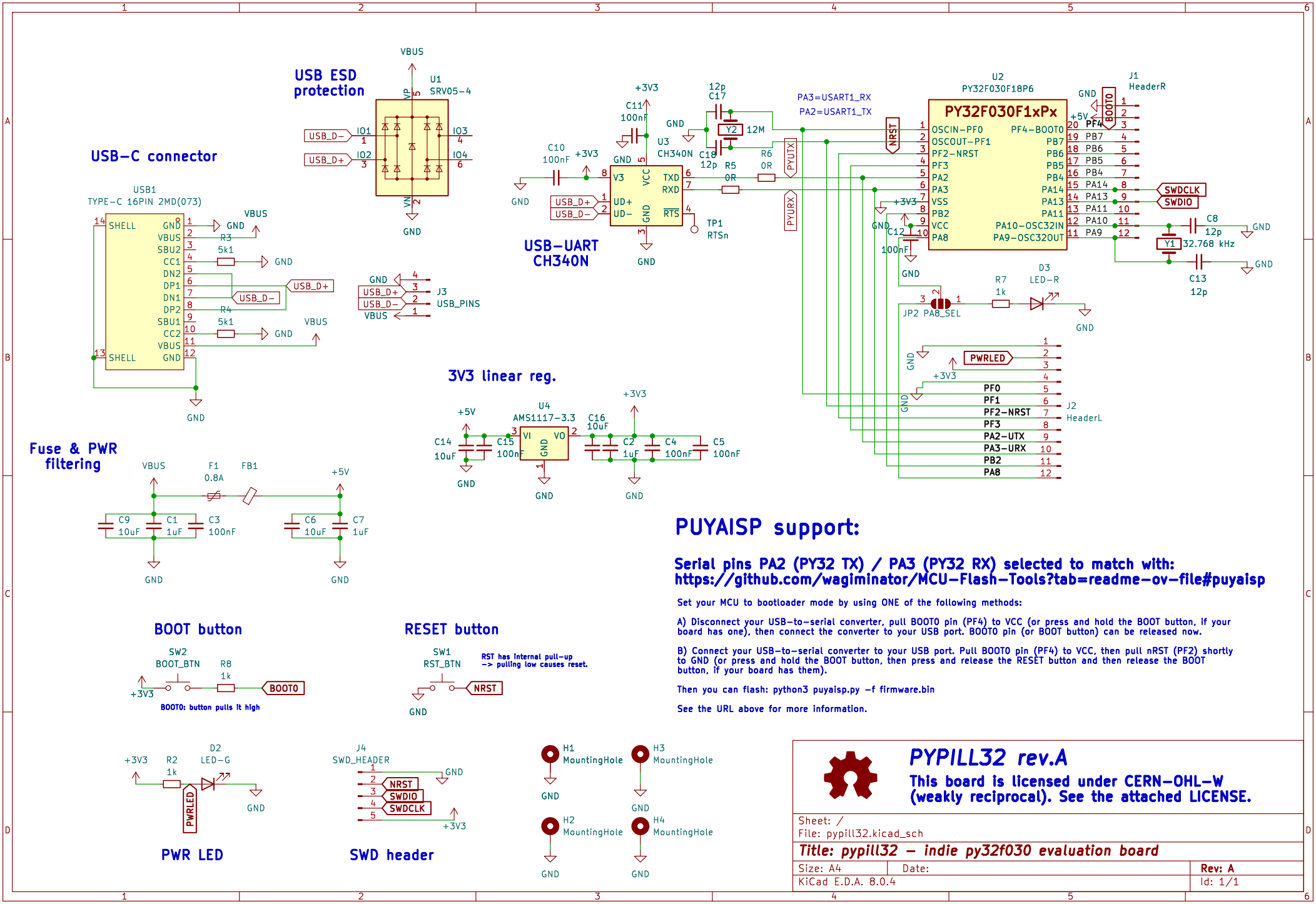
USB ESD protection
U1 SRV05-4
USB-C connector
USB1 TYPE-C 16PIN 2MD(073)
J3 USB_PINS
USB-UART CH340N
U3 CH340N
U2 PY32F030F18P6
PY32F030F1xPx
PA3=USART1_RX
PA2=USART1_TX
J1 HeaderR
J2 HeaderL
JP2 PA8_SEL
D3 LED-R
Y1 32.768 kHz
Y2 12M
3V3 linear reg.
U4 AMS1117-3.3
Fuse & PWR filtering
F1 0.8A
FB1
BOOT 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
D2 LED-G
SWD header
J4 SWD_HEADER
H1 MountingHole
H2 MountingHole
H3 MountingHole
H4 MountingHole
PUYAISP 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 ONE of the following methods:
A) Disconnect your USB-to-serial converter, pull BOOT0 pin (PF4) to VCC (or press and hold the BOOT button, if your board has one), then connect the converter to your USB port. BOOT0 pin (or BOOT button) can be released now.
B) Connect your USB-to-serial converter to your USB port. Pull BOOT0 pin (PF4) to VCC, then pull nRST (PF2) shortly to GND (or press and hold the BOOT button, then press and release the RESET button and then release the BOOT button, if your board has them).
Then you can flash: python3 puyaisp.py -f firmware.bin
See the URL above for more information.
PYPILL32 rev.A
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Sheet: /
File: pypill32.kicad_sch
Title: pypill32 - indie py32f030 evaluation board
Size: A4
Date:
Rev: A
KiCad E.D.A. 8.0.4
Id: 1/1