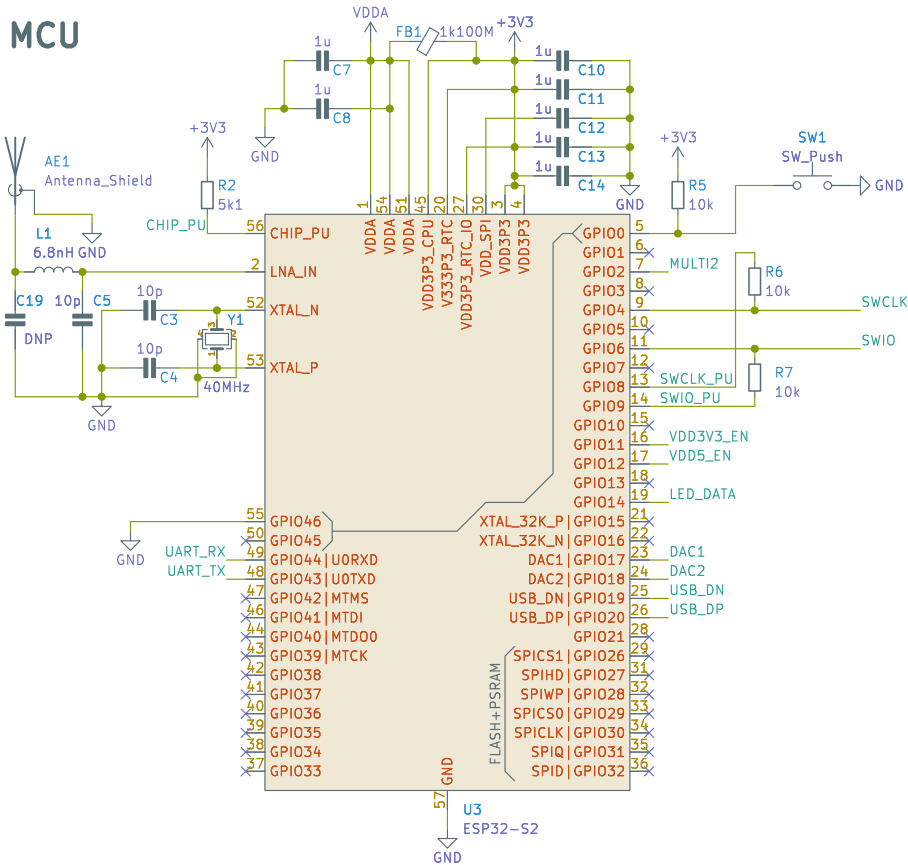
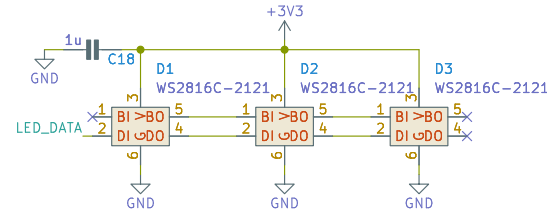


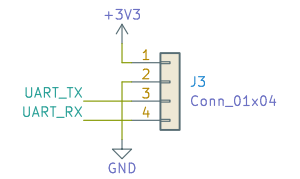
MCU



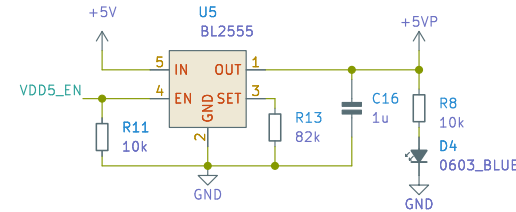
RGB LEDs



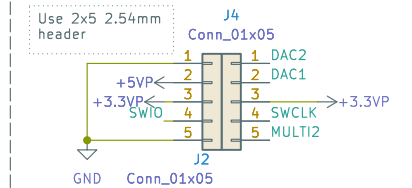
UART 3.3V



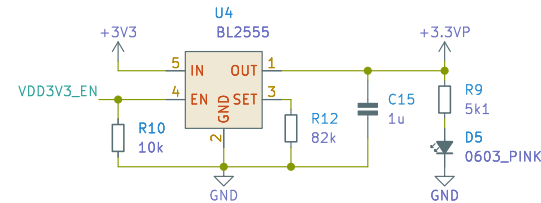
TARGET 5V



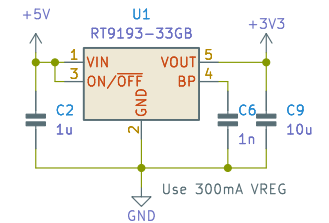
PROG CONNECTOR



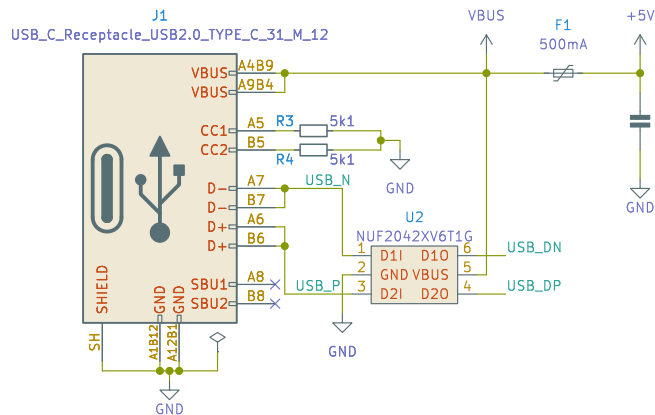
TARGET 3.3V



VREG 3.3V



USB



Hardware compatible with CNLohr's ESP32S2 Programmer: <https://github.com/cnlrohr/cnhardware/tree/master/esp32s2-funprog>

Firmware: <https://github.com/cnlrohr/esp32s2-cookbook/tree/master/ch32v003programmer>

- Differences:
- 500mA polyfuse on the VBUS rail
 - USB protection IC
 - Current limited power switches
 - 5V and 3.3V present led indicators
 - smaller footprint, fits into the "USB dongle" acrylic enclosure (same as original WCHLinkE)
 - U.FL connector for external WiFi antenna

Programmer for CH32V003 series MCU

Piotr Zapart www.hexefx.com

Sheet: /

File: Minichprog.kicad_sch

Title: ESP32-S2 Minichprog

Size: A4 Date: 2023-06-26

KiCad E.D.A. kicad 7.0.5-4d25ed1034-172-ubuntu22.04.1

Rev: B

Id: 1/1