

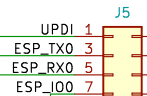
USB-to-Serial

*** we use a USB-to-Serial converter with a CP102 chip from Silicon Labs; it is fast and reliable.
 *** double check the output voltage ... must not be more than 3.3V (!)

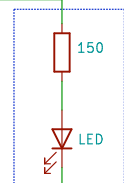


AVR/ESP programming

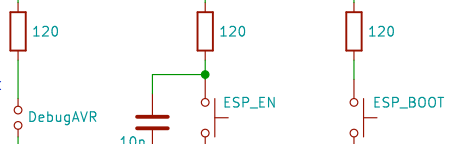
*** keep unattended to pass on serial line to ESP (programming and monitoring)
 *** hold down for UPDI programming the AVR with Pyupdi (the ESP will then also listen to the UPDI programming protocol, but this does not matter)
 *** on the AGCCS board, this is the RED switch



OPTIONAL LED: show blink codes from demesh.c



*** when pulled to ground, our firmware "demesh.c" will boot into target-debug mode (i.e. accespoint with telnet forwarding of the AVR's Tx0 und Rx0); cycle EPS_EN to trigger re-boot. (OPTIONAL - you may prefer to use a plain jumper wire from ESP_IO15 to GND directly)



*** ESP serial line programming: hold down ESP_BOOT while cycling ESP_EN; start "make flash" before releasing ESP_BOOT; on the AGCCS board, ESP_EN is BLACK and ESP_BOOT is GREY

Sheet: /
 File: agccs-j5adaptor-1-2.sch

Title: J5 Adaptor

Size: A4 Date: 2021-03-12
 KiCad E.D.A. kicad (5.1.9-0-10_14)

Rev: 1.2
 Id: 1/1