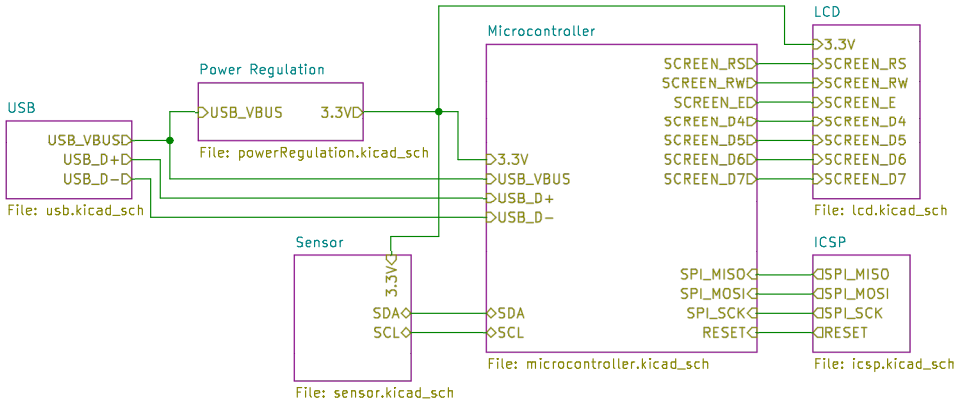

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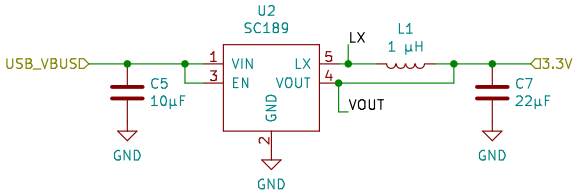
Sheet: /
File: wederian.kicad_sch

Title: Wederian

Size: A4	Date: 2021-10-24	**Rev: 0.2.0**
KiCad E.D.A. kicad 5.99.0-unknown-2a6c73b8df~142~ubuntu21.04.1		Id: 1/7



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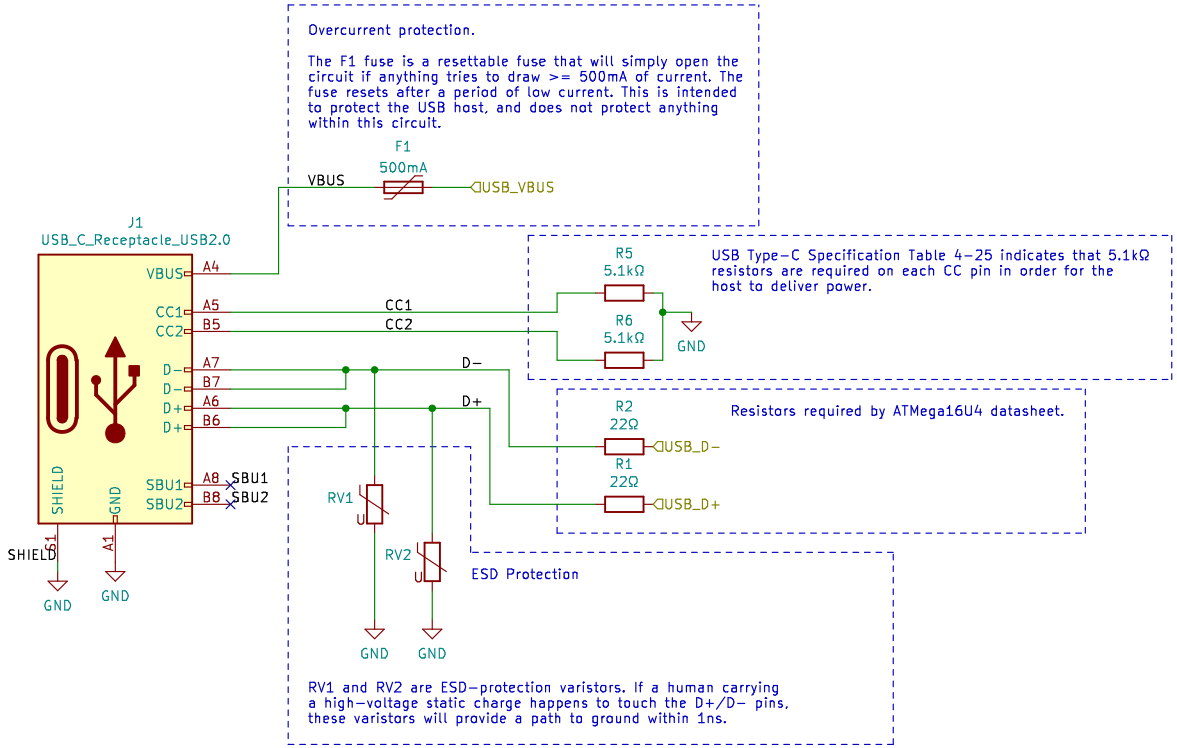
Sheet: /Power Regulation/
File: powerRegulation.kicad_sch

Title: Wederian

Size: A4	Date: 2021-10-24	**Rev: 0.2.0**
KiCad E.D.A. kicad 5.99.0-unknown-2a6c73b8df~142~ubuntu21.04.1		Id: 2/7



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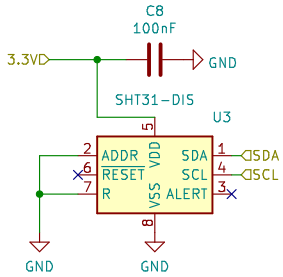
Sheet: /USB/
File: usb.kicad_sch

Title: Wederian

Size: A4	Date: 2021-10-24	**Rev: 0.2.0**
KiCad E.D.A. kicad 5.99.0-unknown-2a6c73b8df~142~ubuntu21.04.1		Id: 3/7



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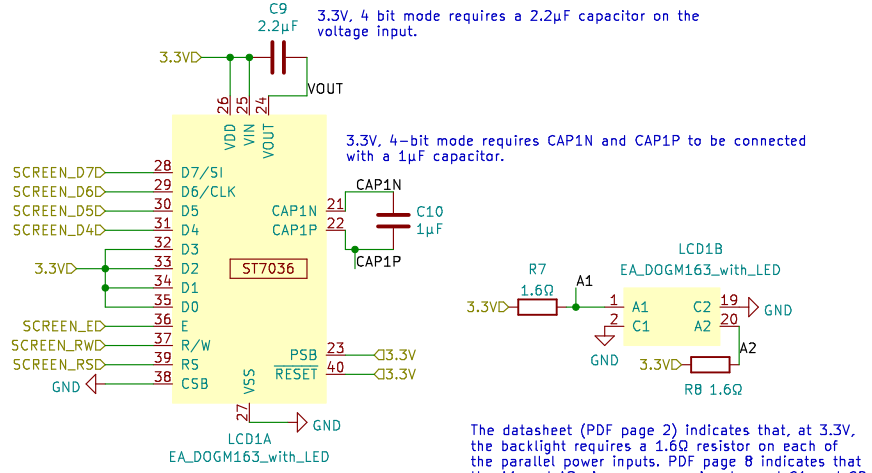
Sheet: /Sensor/
File: sensor.kicad_sch

Title: Wederian

Size: A4	Date: 2021-10-24	**Rev: 0.2.0**
KiCad E.D.A. kicad 5.99.0-unknown-2a6c73b8df~142~ubuntu21.04.1		Id: 4/7

The LCD display is an EA-DOGM163S-A, with a white EA-LED55X31-W backlight. The display can be configured in multiple ways, and this schematic is using the 3.3V mode with a 4-bit interface. See page 4 of the datasheet.



The datasheet (PDF page 2) indicates that, at 3.3V, the backlight requires a 1.6Ω resistor on each of the parallel power inputs. PDF page 8 indicates that the A1 and A2 pins are power inputs, and C1 and C2 are connected to ground.

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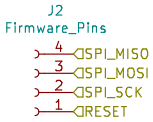
Sheet: /LCD/
File: lcd.kicad_sch

Title: Wederian

Size: A4	Date: 2021-10-24	**Rev: 0.2.0**
KiCad E.D.A. kicad 5.99.0-unknown-2a6c73b8df~142~ubuntu21.04.1		Id: 5/7



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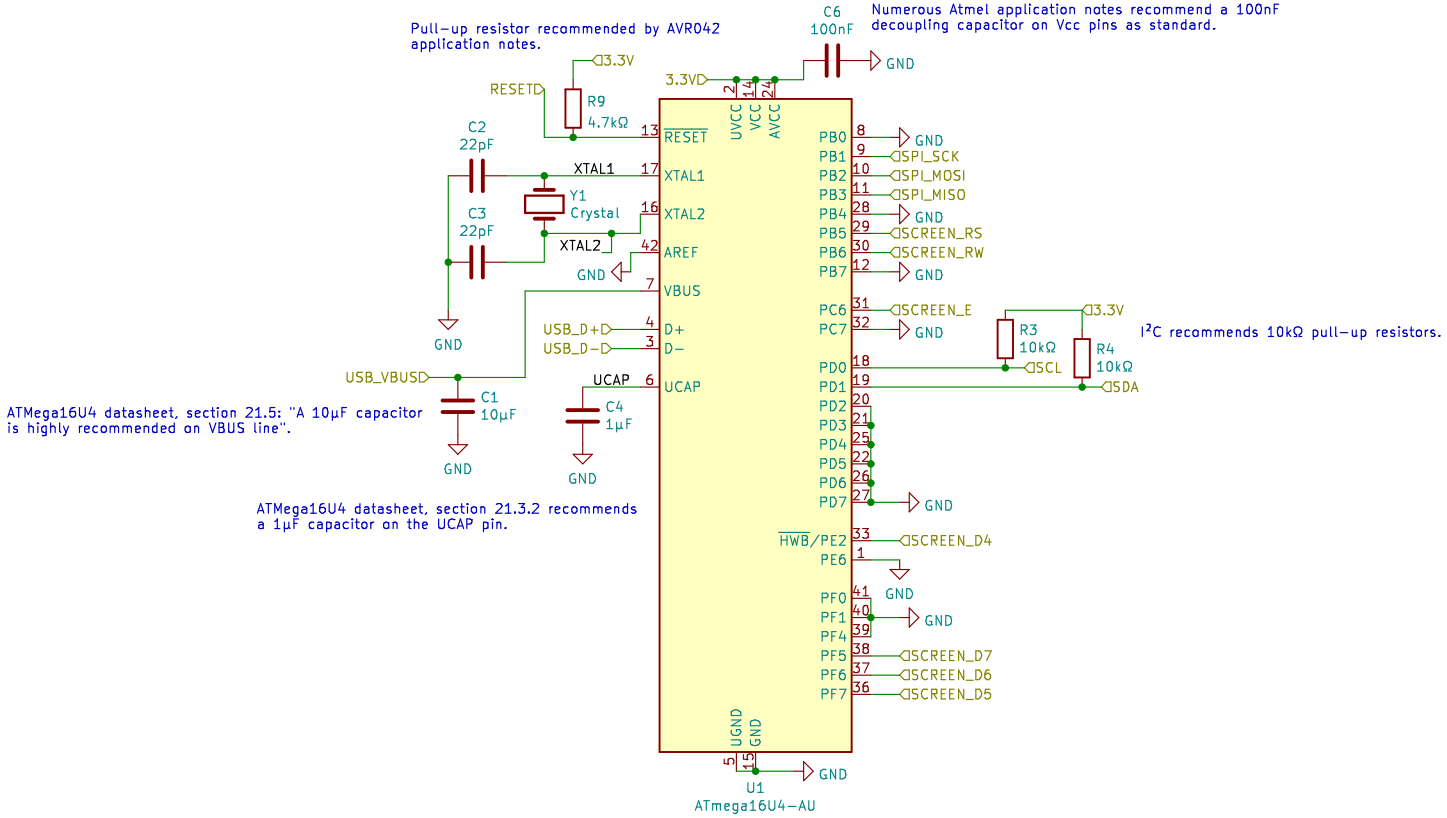
Sheet: /ICSP/
File: icsp.kicad_sch

Title: Wederian

Size: A4	Date: 2021-10-24	**Rev: 0.2.0**
KiCad E.D.A. kicad 5.99.0-unknown-2a6c73b8df~142~ubuntu21.04.1		Id: 6/7



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Sheet: /Microcontroller/
File: microcontroller.kicad_sch

Title: Wederian

Size: A4	Date: 2021-10-24	**Rev: 0.2.0**
KiCad E.D.A. kicad 5.99.0-unknown-2a6c73b8df~142~ubuntu21.04.1		Id: 7/7