

4 channel RGBW LED bar, Arduino compatible with isolated half duplex RS485.
Power circuit with current and voltage sensing and overvoltage protection.

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Roel Drost

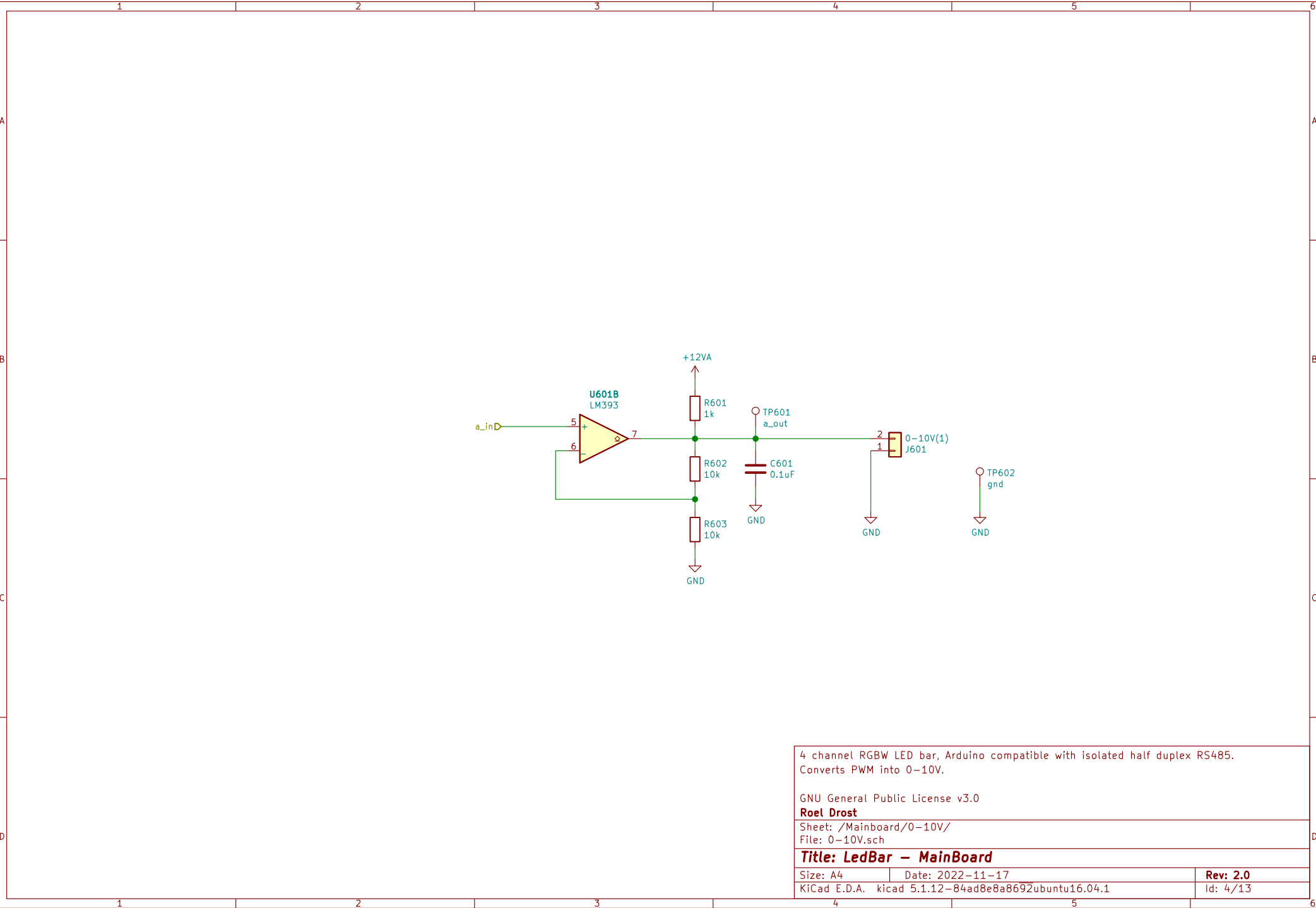
Sheet: /Mainboard/Power/

File: Power.sch

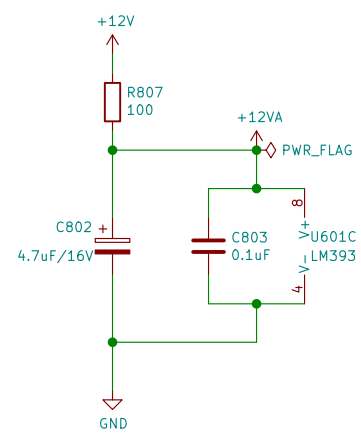
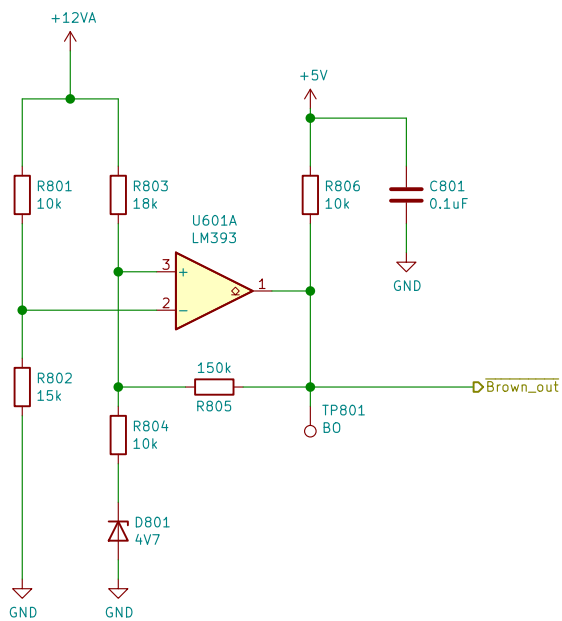
Title: LedBar – MainBoard

Size: A4 Date: 2022-11-17
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu16.04.1

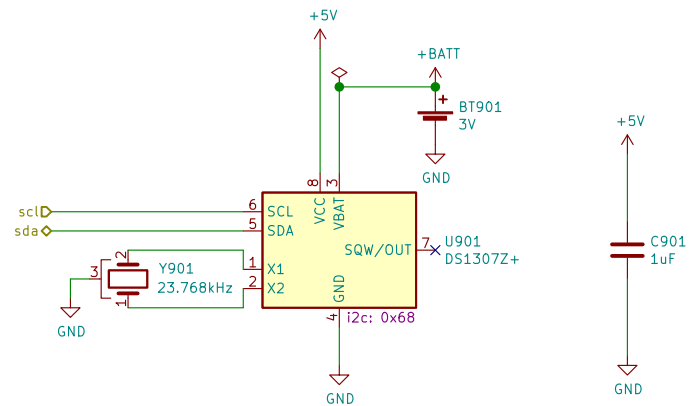
Rev: 2.0
Id: 3/13



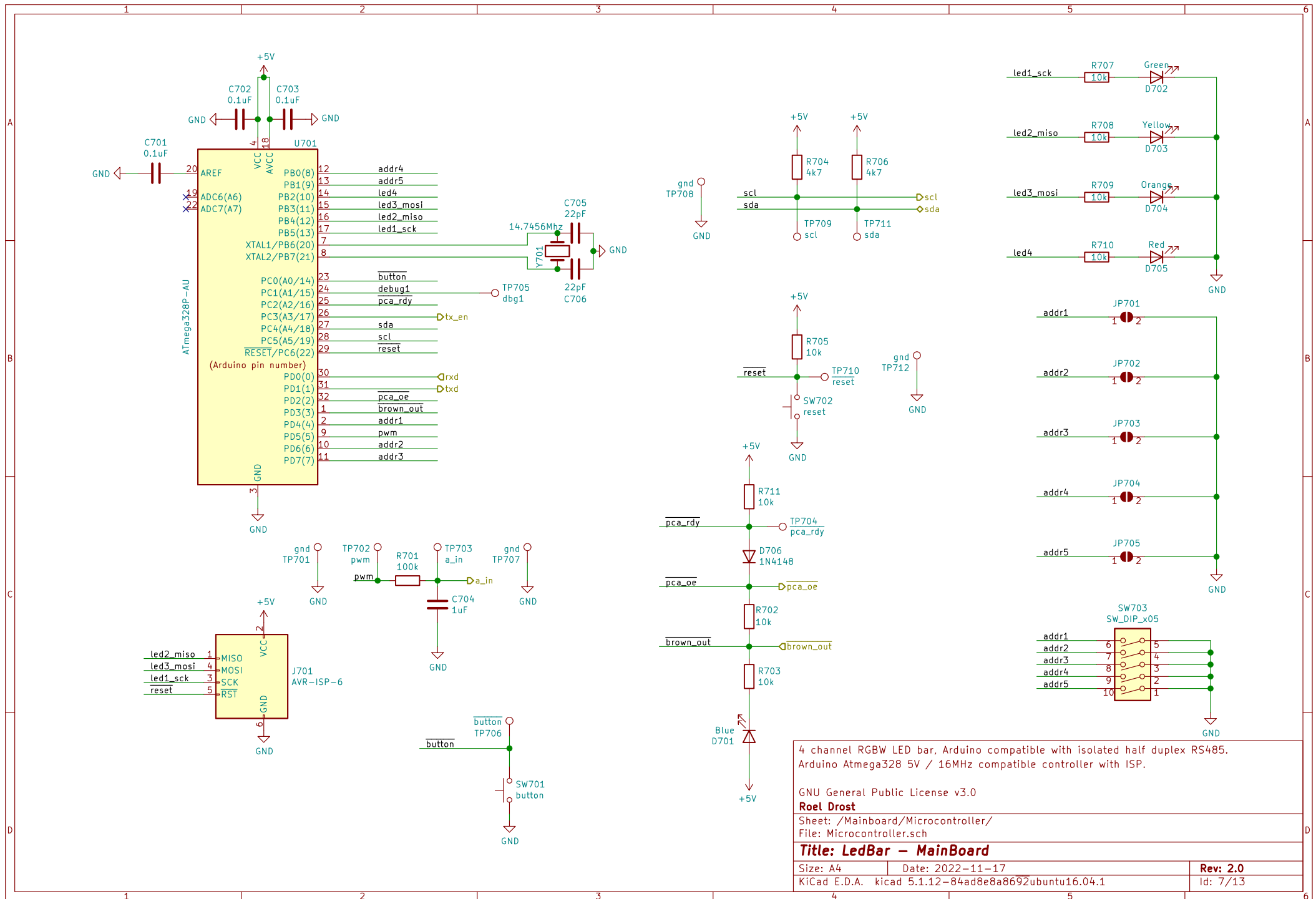
4 channel RGBW LED bar, Arduino compatible with isolated half duplex RS485. Converts PWM into 0-10V.		
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Roel Drost		
Sheet: /Mainboard/0-10V/ File: 0-10V.sch		
Title: LedBar - MainBoard		
Size: A4	Date: 2022-11-17	Rev: 2.0
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu16.04.1		Id: 4/13

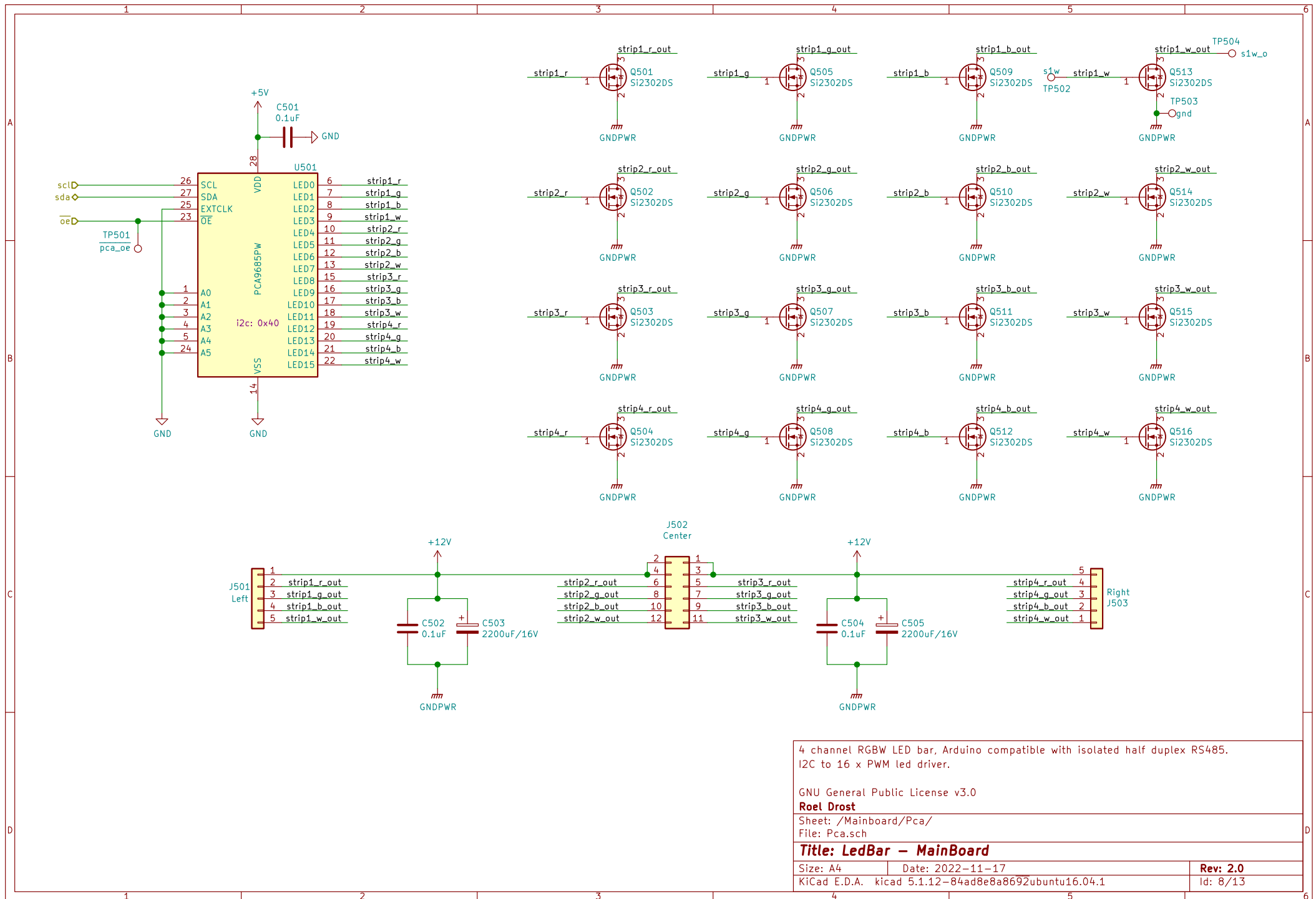


4 channel RGBW LED bar, Arduino compatible with isolated half duplex RS485. Brown-out detection on the 12V bus.		
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Roel Drost		
Sheet: /Mainboard/Brown-out/ File: Brown-out.sch		
Title: LedBar - MainBoard		
Size: A4	Date: 2022-11-17	Rev: 2.0
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu16.04.1		Id: 5/13

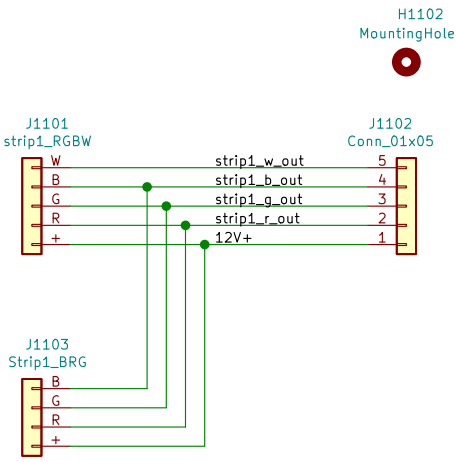


4 channel RGBW LED bar, Arduino compatible with isolated half duplex RS485. Battery backed up real time clock		
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Sheet: /Mainboard/Rtc/ File: Rtc.sch		
Title:		
Size: A4	Date: 2022-11-17	Rev: 2.0
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu16.04.1		Id: 6/13





4 channel RGBW LED bar, Arduino compatible with isolated half duplex RS485. I2C to 16 x PWM led driver.		
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Roel Drost		
Sheet: /Mainboard/Pca/		
File: Pca.sch		
Title: LedBar – MainBoard		
Size: A4	Date: 2022-11-17	Rev: 2.0
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu16.04.1		Id: 8/13



4 channel RGBW LED bar, Arduino compatible with isolated half duplex RS485.

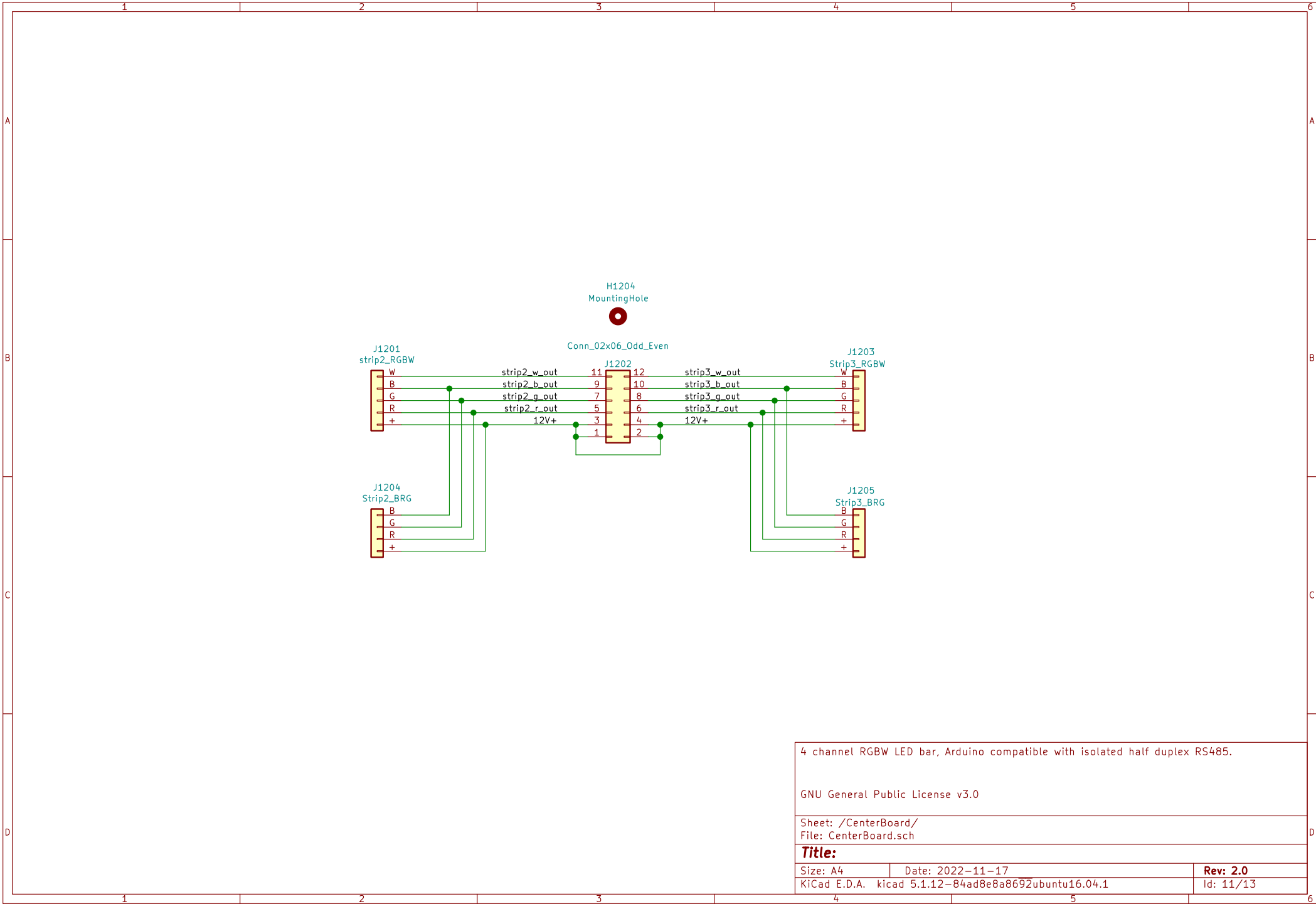
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Sheet: /LeftBoard/
File: LeftBoard.sch

Title:

Size: A4 Date: 2022-11-17
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu16.04.1

Rev: 2.0
Id: 10/13



4 channel RGBW LED bar, Arduino compatible with isolated half duplex RS485.

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Sheet: /CenterBoard/
File: CenterBoard.sch

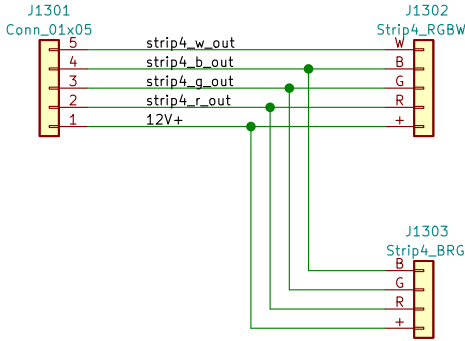
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Size: A4
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Date: 2022-11-17

Rev: 2.0

Id: 11/13



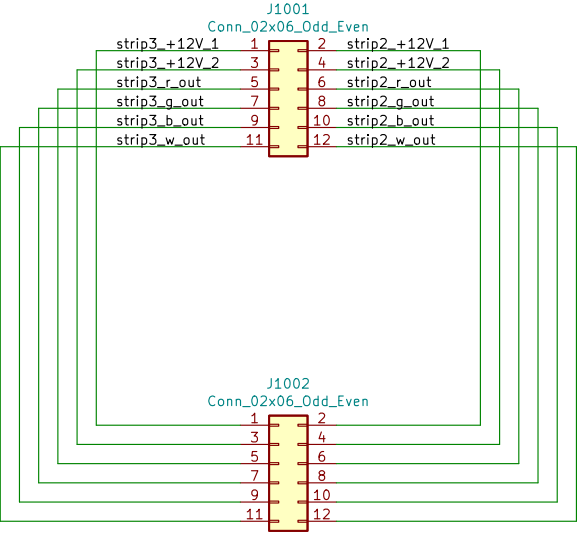
4 channel RGBW LED bar, Arduino compatible with isolated half duplex RS485.

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Sheet: /RightBoard/
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Title:

Size: A4	Date: 2022-11-17	Rev: 2.0
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu16.04.1		Id: 12/13



4 channel RGBW LED bar, Arduino compatible with isolated half duplex RS485.

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File: Perpendicular.sch

Title:

Size: A4	Date: 2022-11-17	Rev: 2.0
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu16.04.1		Id: 13/13