

TOTAL SYSTEM POWER IS ~275w
HUB USB SPEC 3.1
THIS IS A 2X 100W USB PD SOURCE
MICK MAKE

Sheet: /12-21V INPUT BOOST CONVERTER/
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Title: 200W USB PD 3.1 HUB

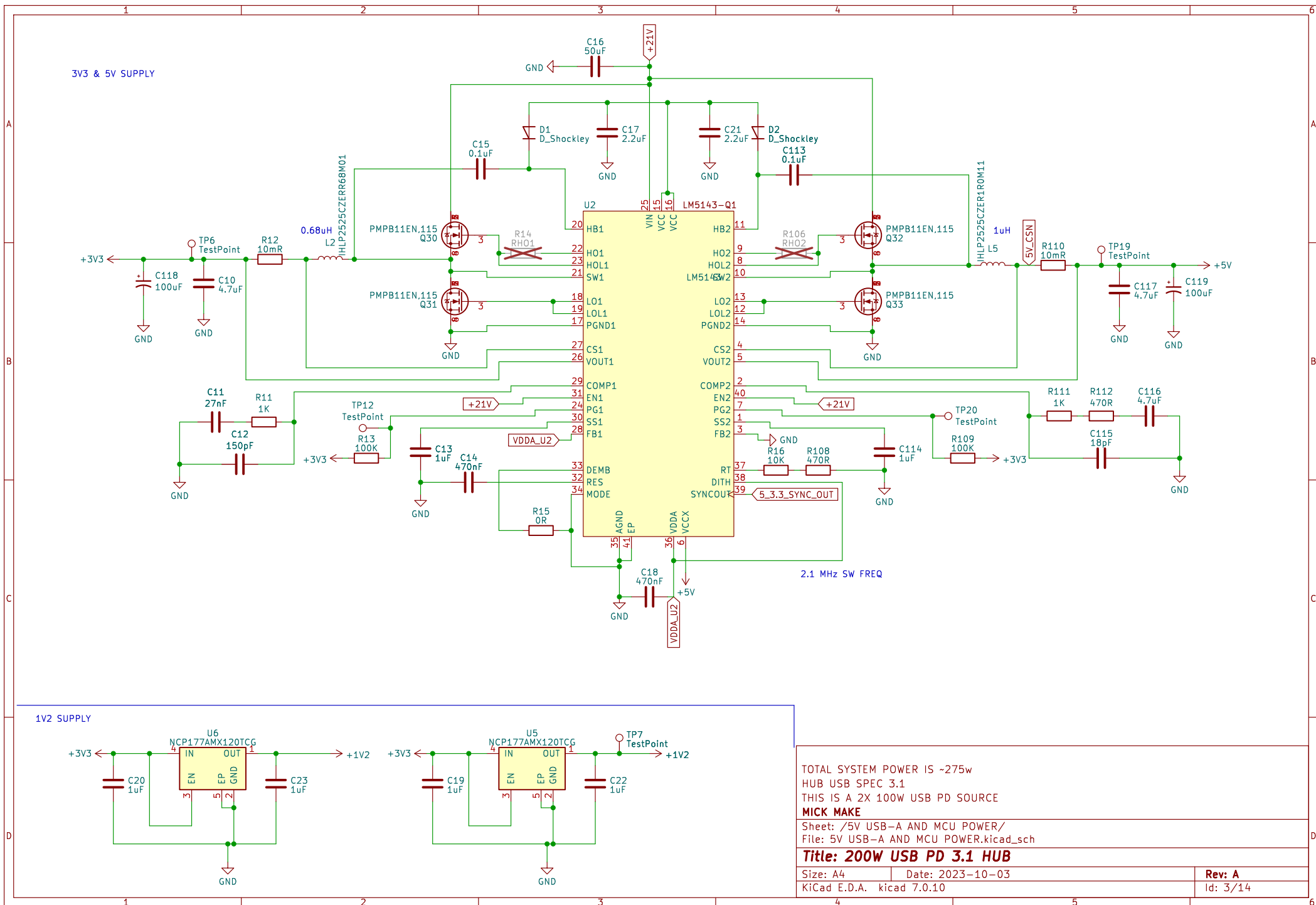
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| KiCad E.D.A. kicad 7.0.10 | |

Date: 2023-10-03

KiCad E.D.A. kicad 7.0.10

Rev: A
Id: 2/14

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Sheet: /5V USB-A AND MCU POWER/

File: 5V USB-A AND MCU POWER.kicad_sch

Title: 200W USB PD 3.1 HUB

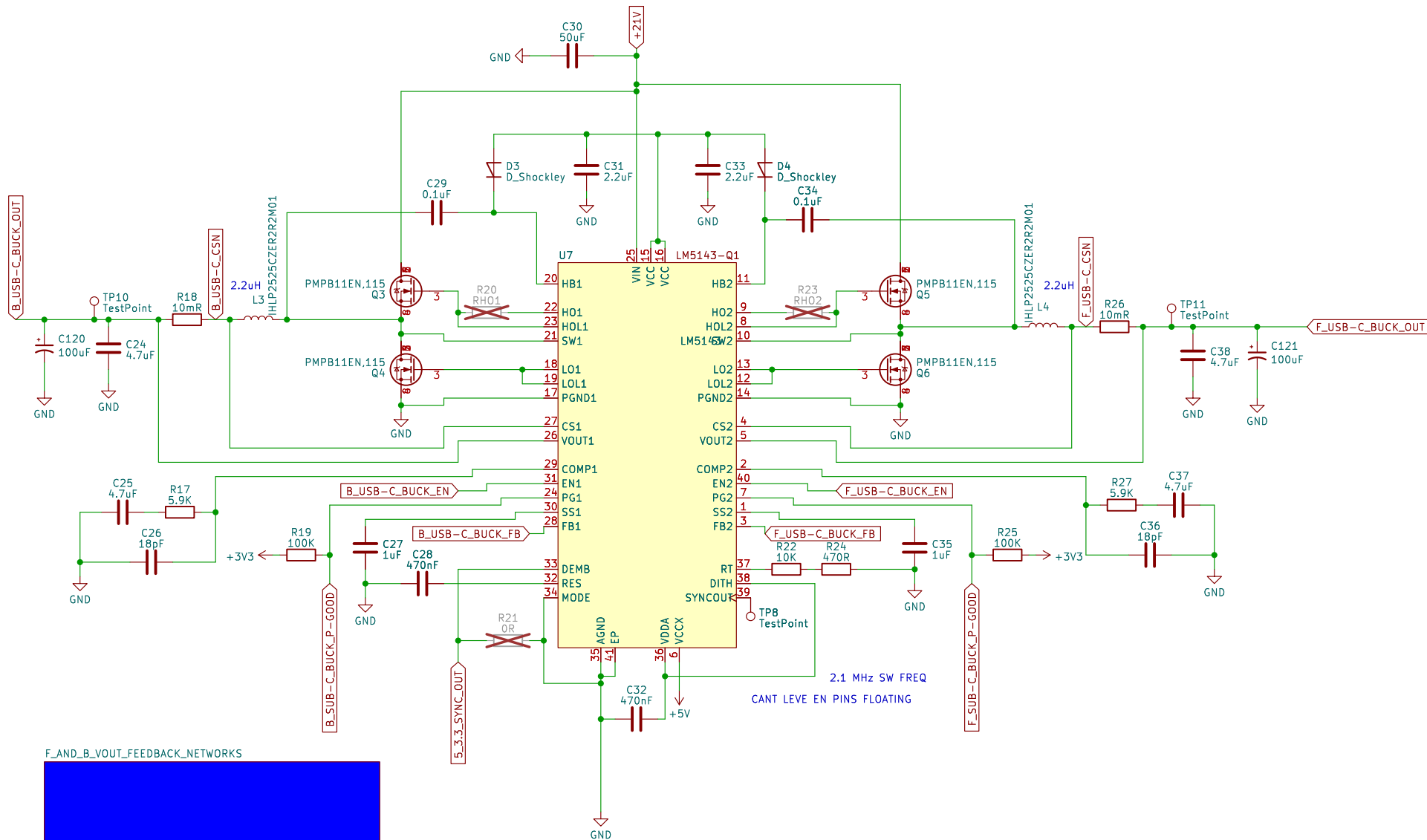
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Date: 2023-10-03

Rev: A

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Id: 3/14



F_AND_B_VOUT_FEEDBACK_NETWORKS

File: F_AND_B_VOUT_FEEDBACK_NETWORKS.kicad_sch

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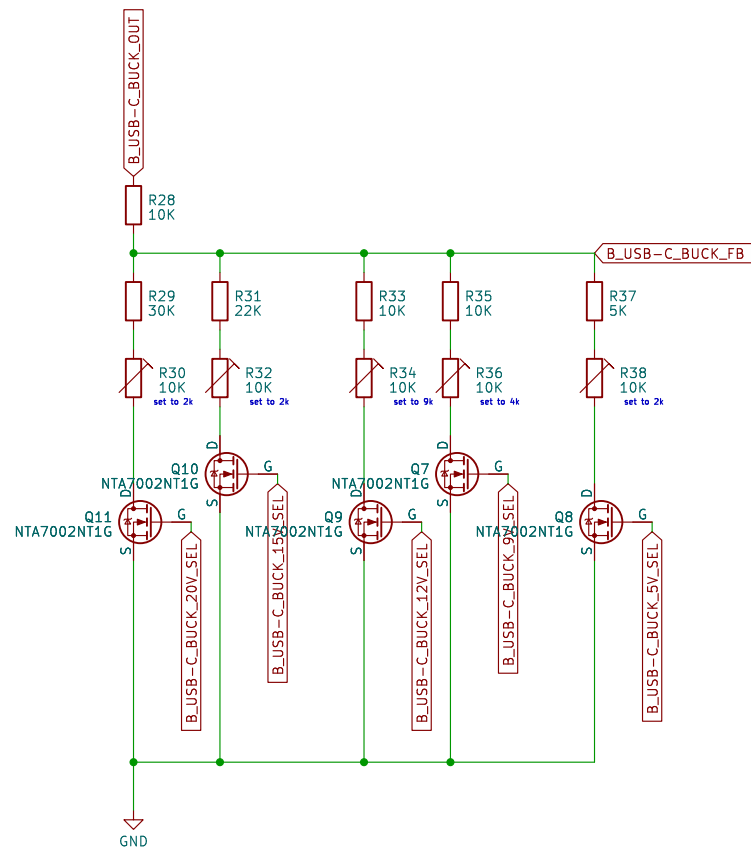
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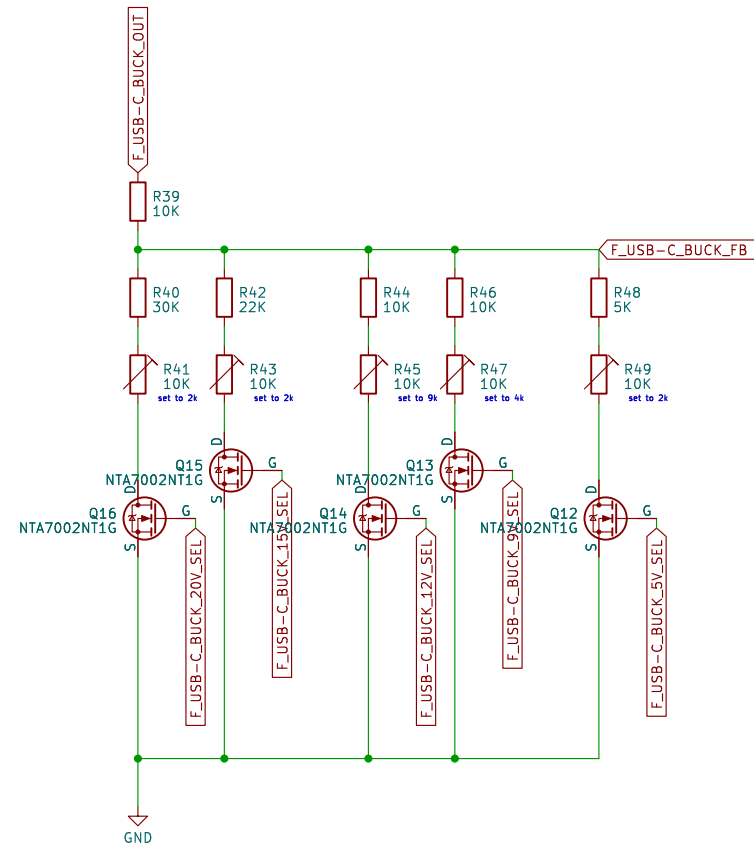
Size: A4 Date: 2023-10-03
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Rev: A
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FRONT USB-C BUCK SELECTABLE FEEDBACK NETWORK



BACK USB-C BUCK SELECTABLE FEEDBACK NETWORK



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Sheet: /USB-C_POWER/F_AND_B_VOUT_FEEDBACK_NETWORKS/

File: F_AND_B_VOUT_FEEDBACK_NETWORKS.kicad_sch

Title: 200W USB PD 3.1 HUB

Size: A4

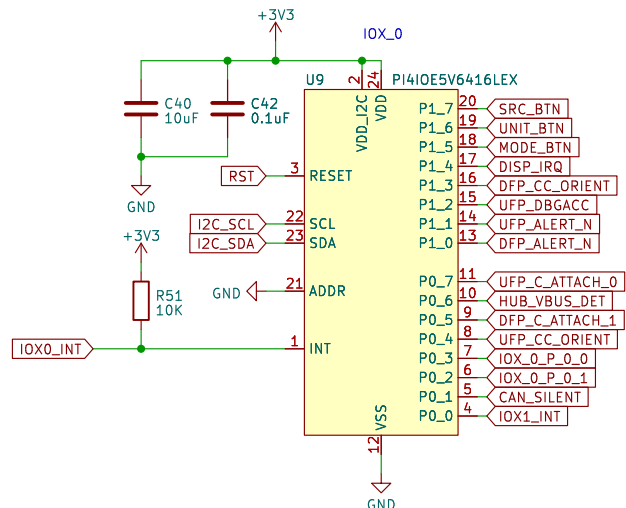
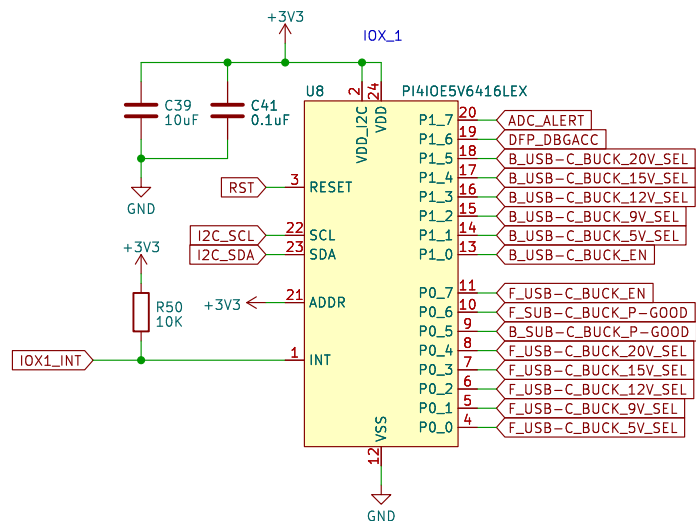
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KiCad E.D.A. kicad 7.0.10

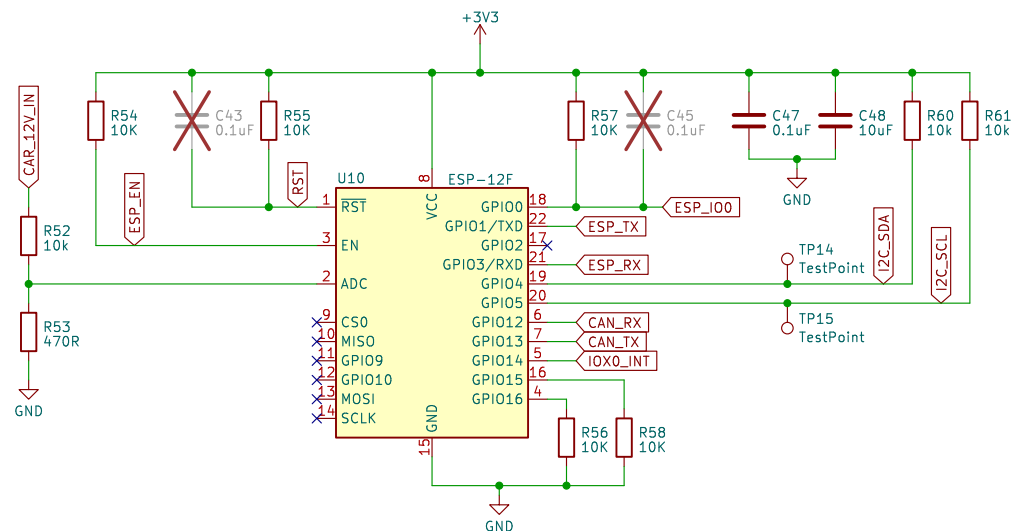
Rev: A

Id: 5/14

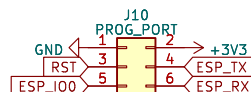
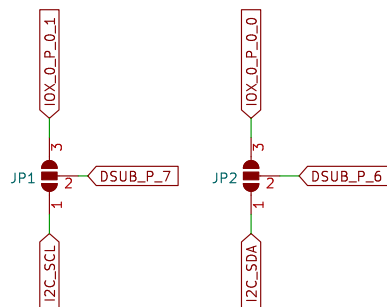
IO EXPANDERS



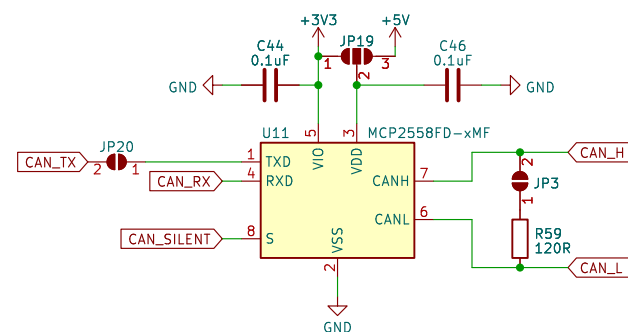
ESP-12F



CAR CONNECTOR GPIO OR I2C SELCTION JUMPERS



CAN BUS TRANCEVER



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Sheet: /ESP-12F/

File: ESP-12F.kicad_sch

Title: 200W USB PD 3.1 HUB

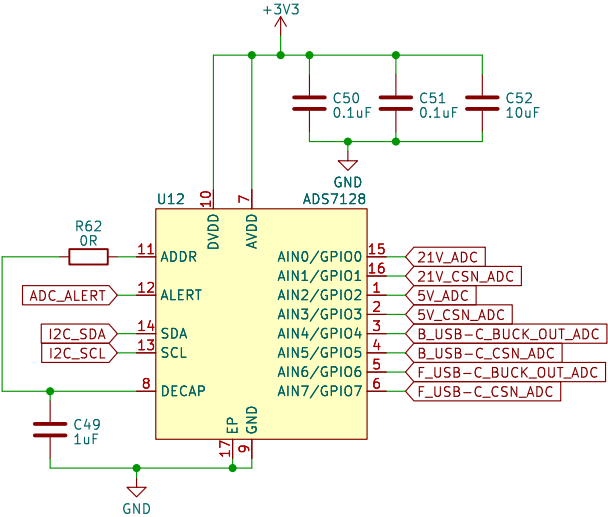
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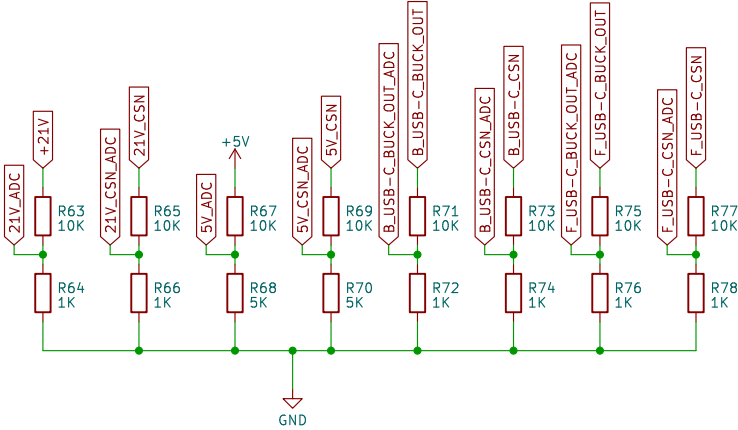
Rev: A

Id: 6/14

I2C ADC



DEVIDER NETWORKS FOR ADC INPUT



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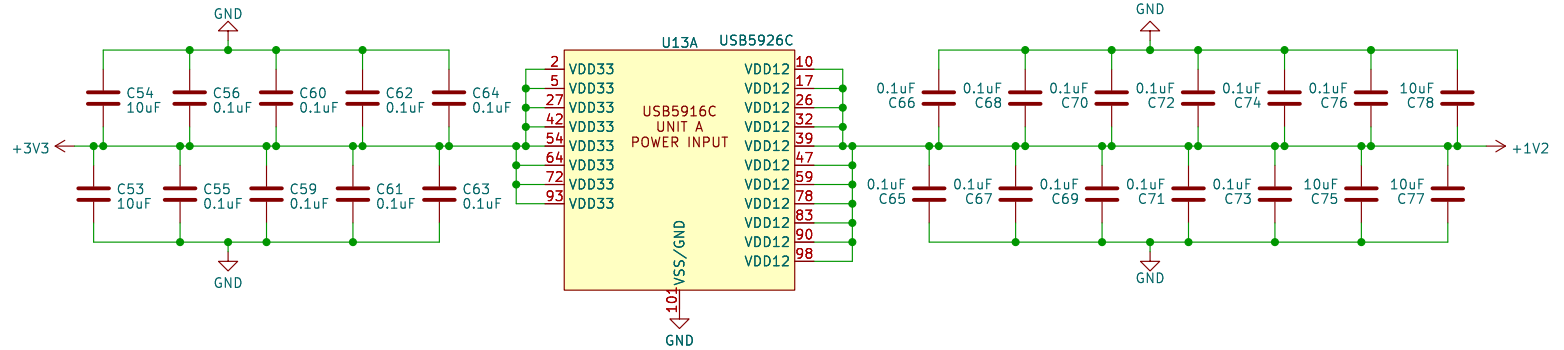
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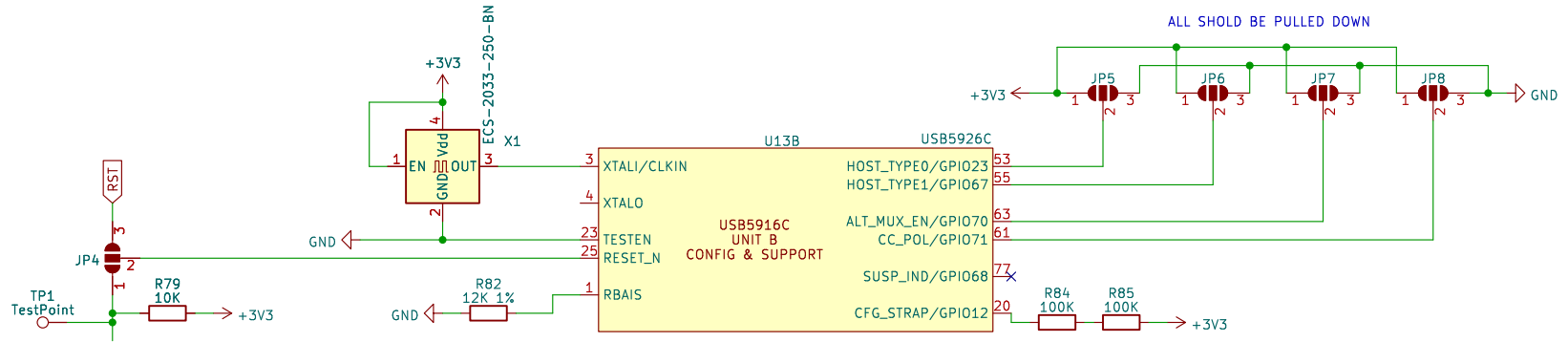
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KiCad E.D.A. kicad 7.0.10

Rev: A
Id: 7/14

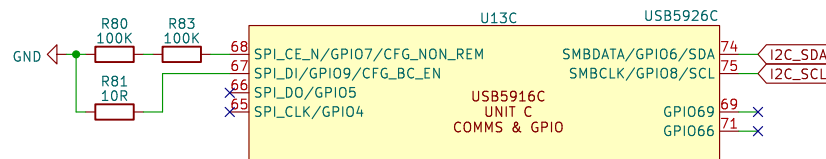
HUB CHIP POWER INPUT



HUB CHIP CONFIG



HUB CHIP COMS



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Sheet: /HUBCHIP/
File: HUBCHIP.kicad_sch

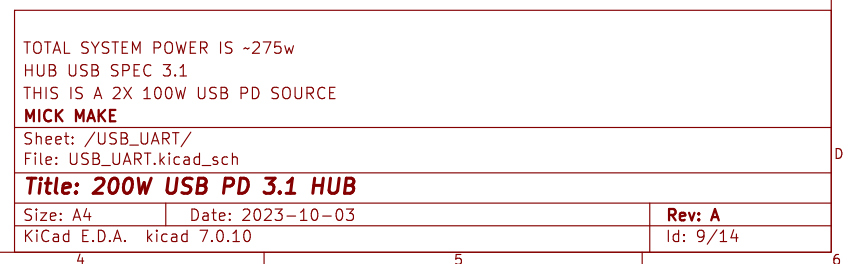
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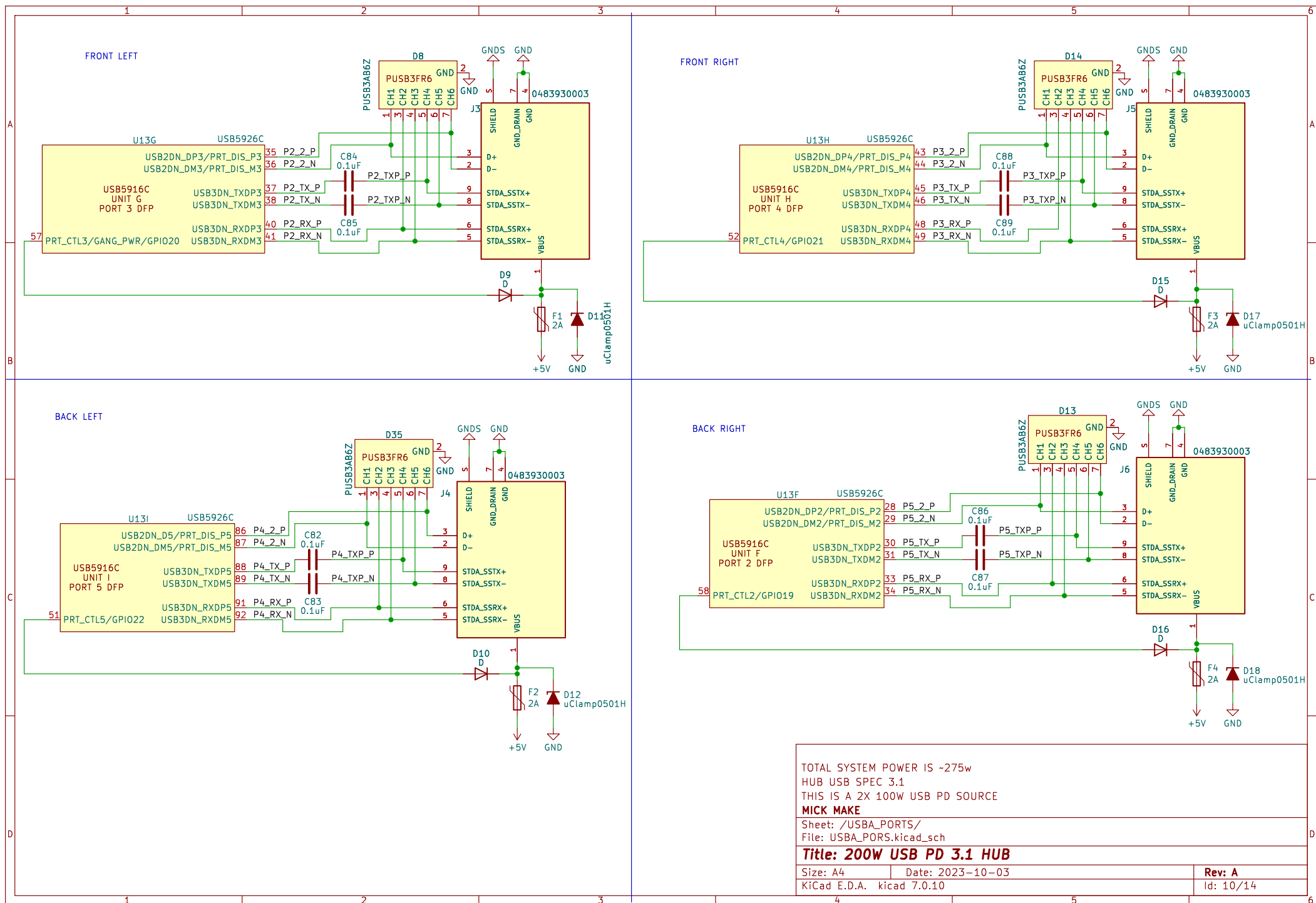
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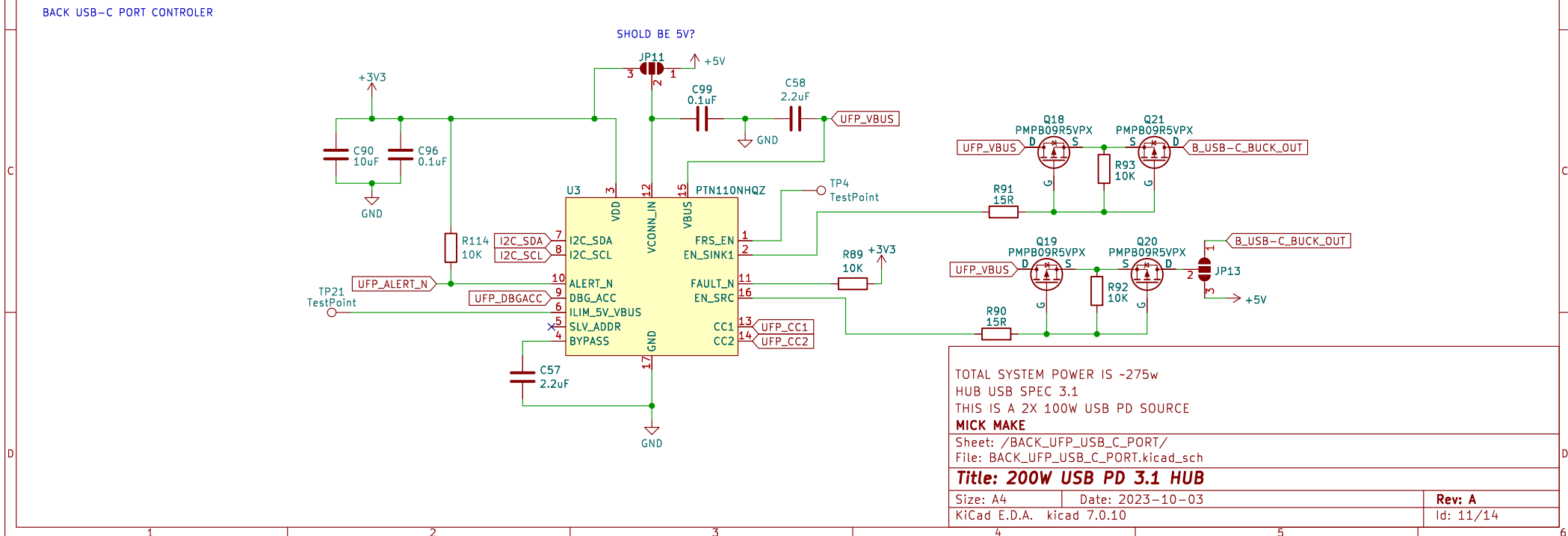
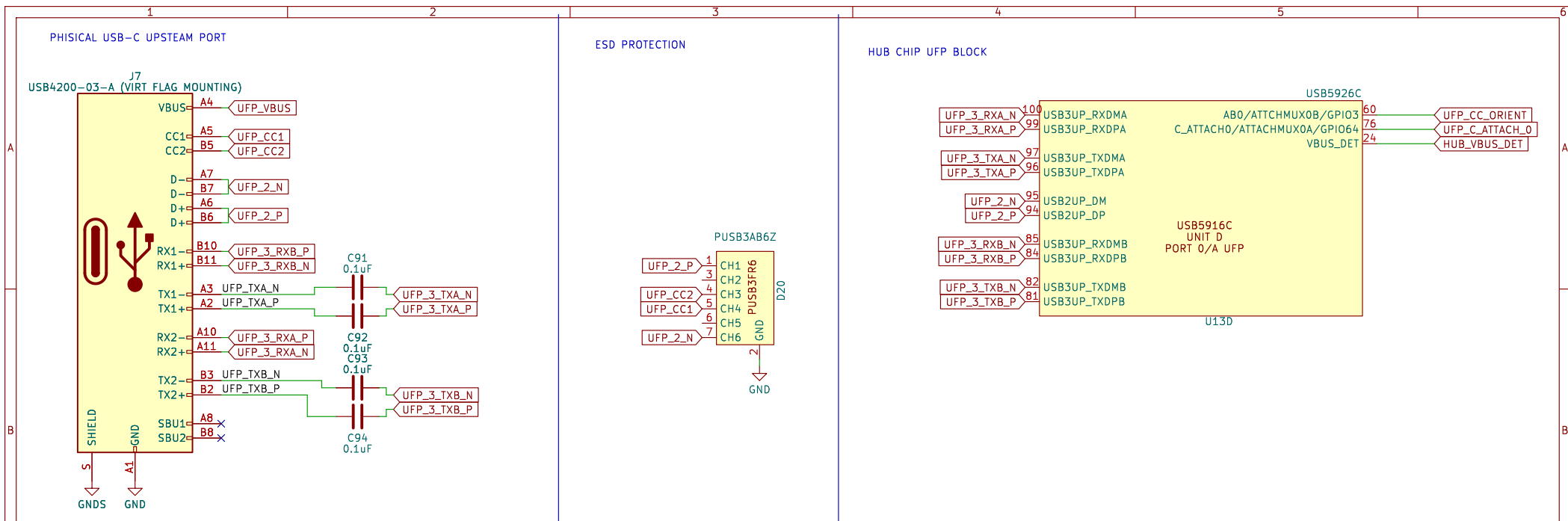
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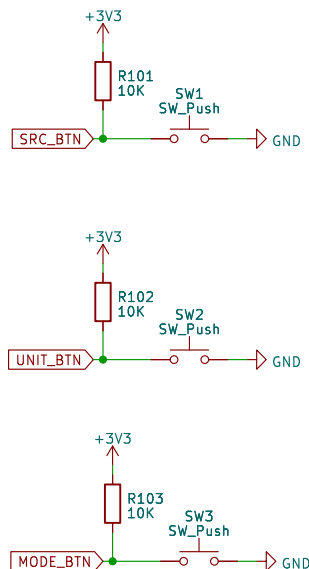
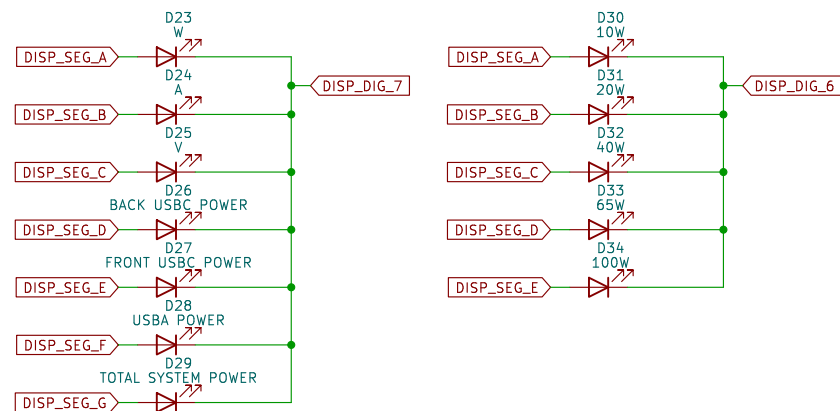
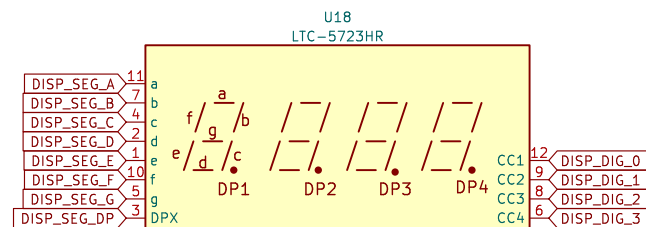
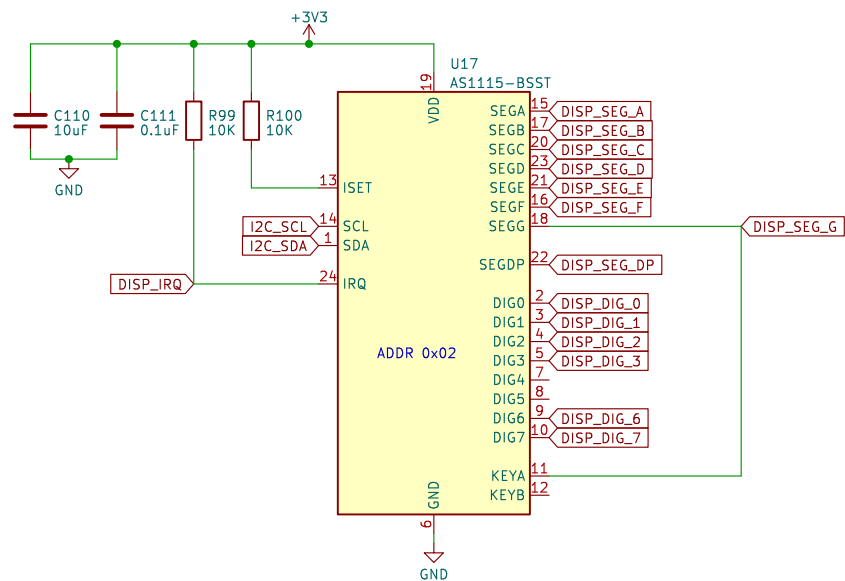
Rev: A

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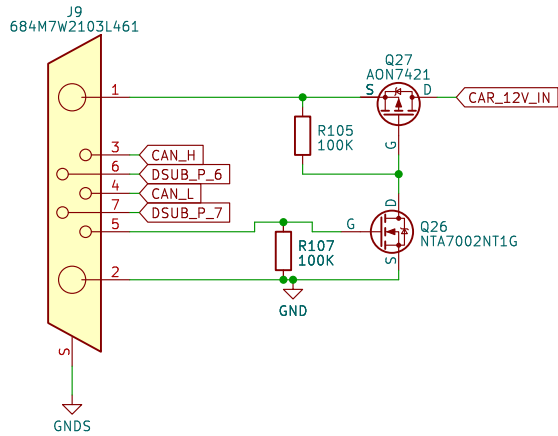


Title: 200W USB PD 3.1 HUB

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| KiCad E.D.A. | kicad 7.0.10 |

Id: 13/14

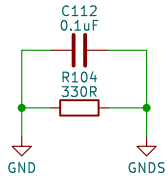
CAR CONNECTOR



MOUNTING HOLES

- H7 MountingHole
- H9 MountingHole
- H4 MountingHole
- H2 MountingHole
- H3 MountingHole
- H1 MountingHole
- H8 MountingHole
- H5 MountingHole
- H6 MountingHole

SHIELD LINK



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Sheet: /CAR_12V_IN/
File: CAR_12V_IN.kicad_sch

Title: 200W USB PD 3.1 HUB

Size: A4 Date: 2023-10-03

KiCad E.D.A. kicad 7.0.10

Rev: A

Id: 14/14