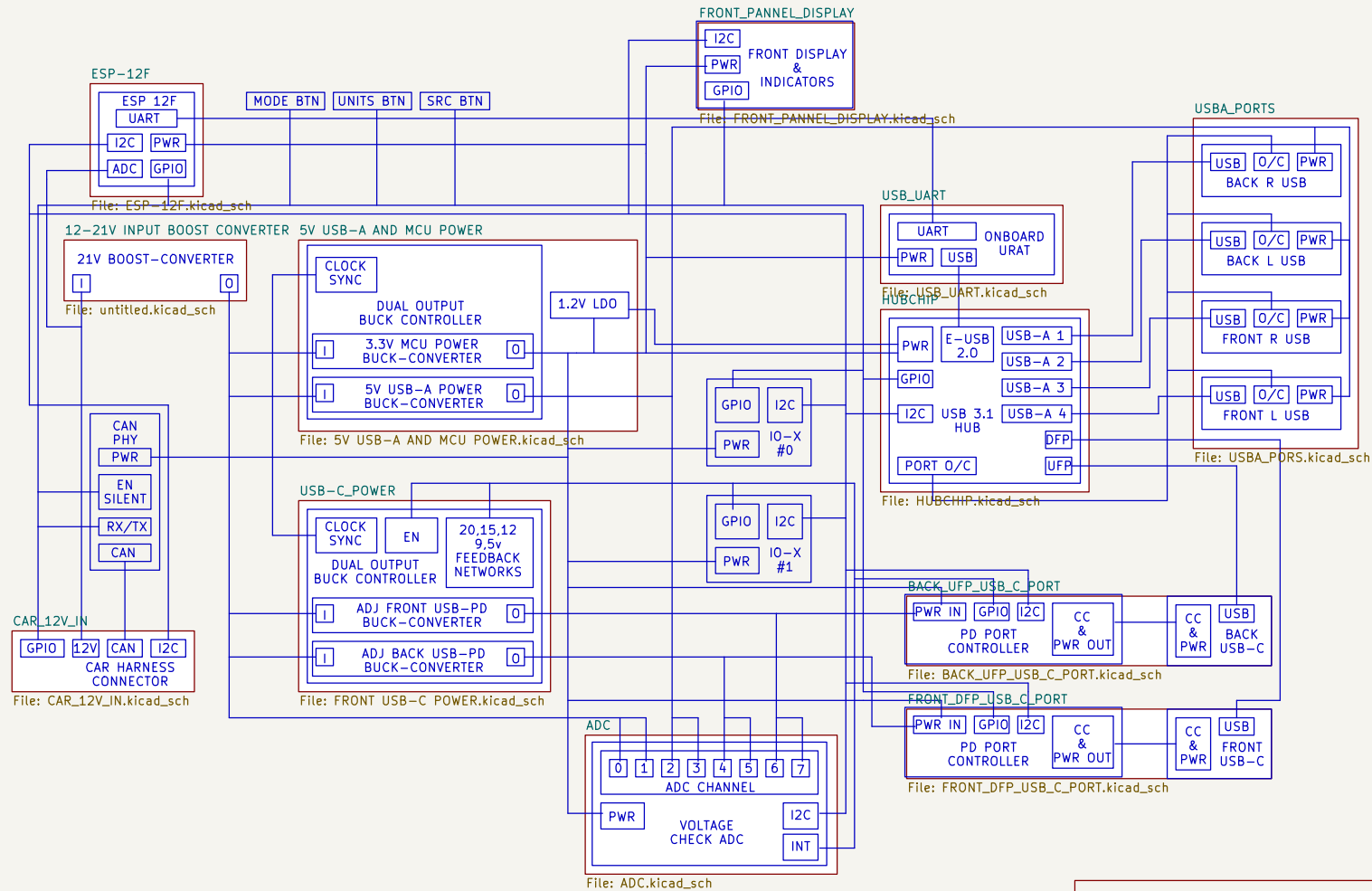


JLC04161H-7628 CONTROLLED IMPEEDANCE



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

Sheet: /
File: usbc-car-module.kicad_sch

Title: 200W USB PD 3.1 HUB

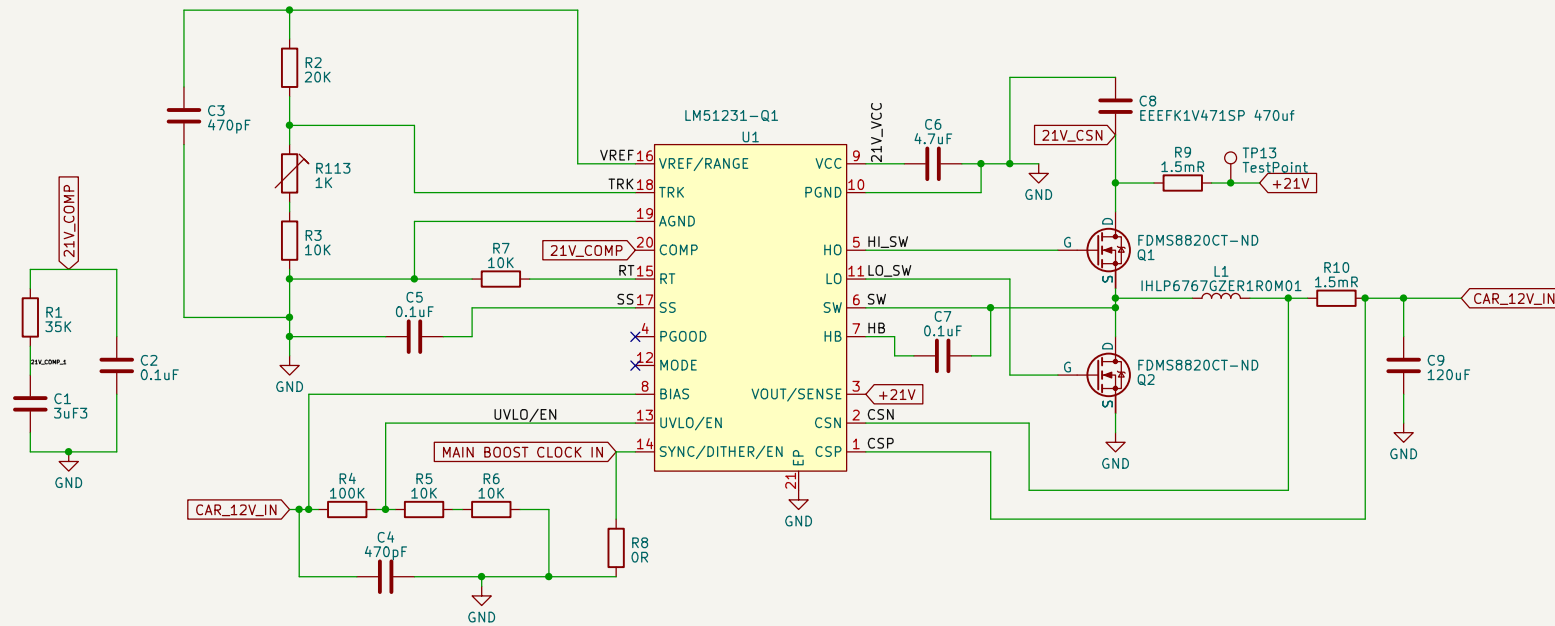
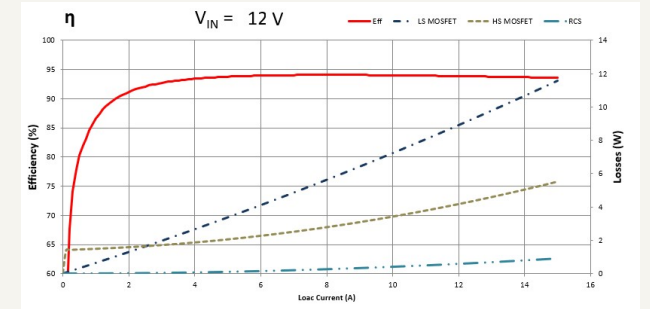
Size: A4 Date: 2023-10-03

KiCad E.D.A. 8.0.1

Rev: A

Id: 1/14

2mhz switching freq



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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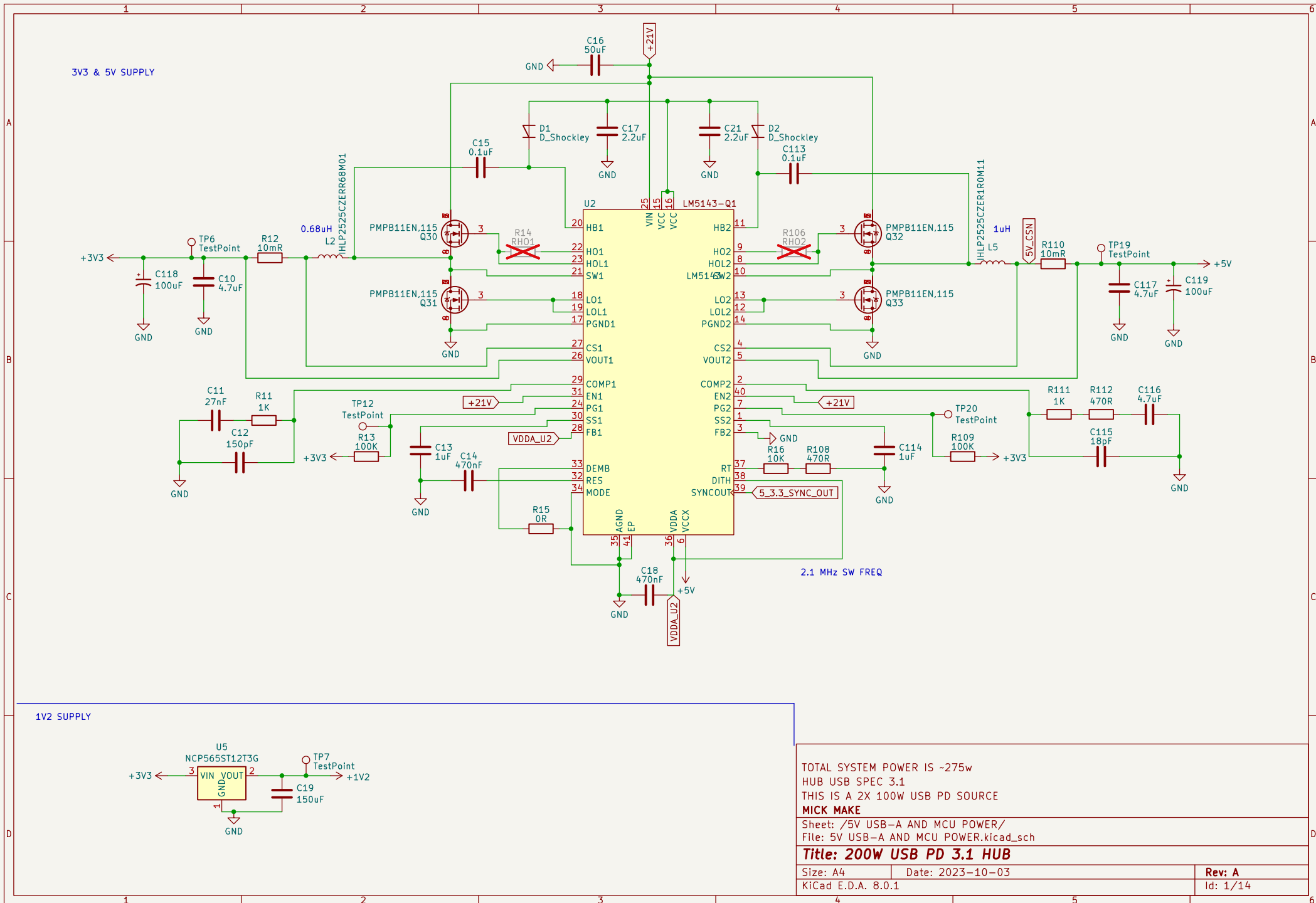
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Date: 2023-10-03

Rev: A

KiCad E.D.A. 8.0.1

Id: 1/14



TOTAL SYSTEM POWER IS ~275w

HUB USB SPEC 3.1

THIS IS A 2X 100W USB PD SOURCE

MICK MAKE

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

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

Title: 200W USB PD 3.1 HUB

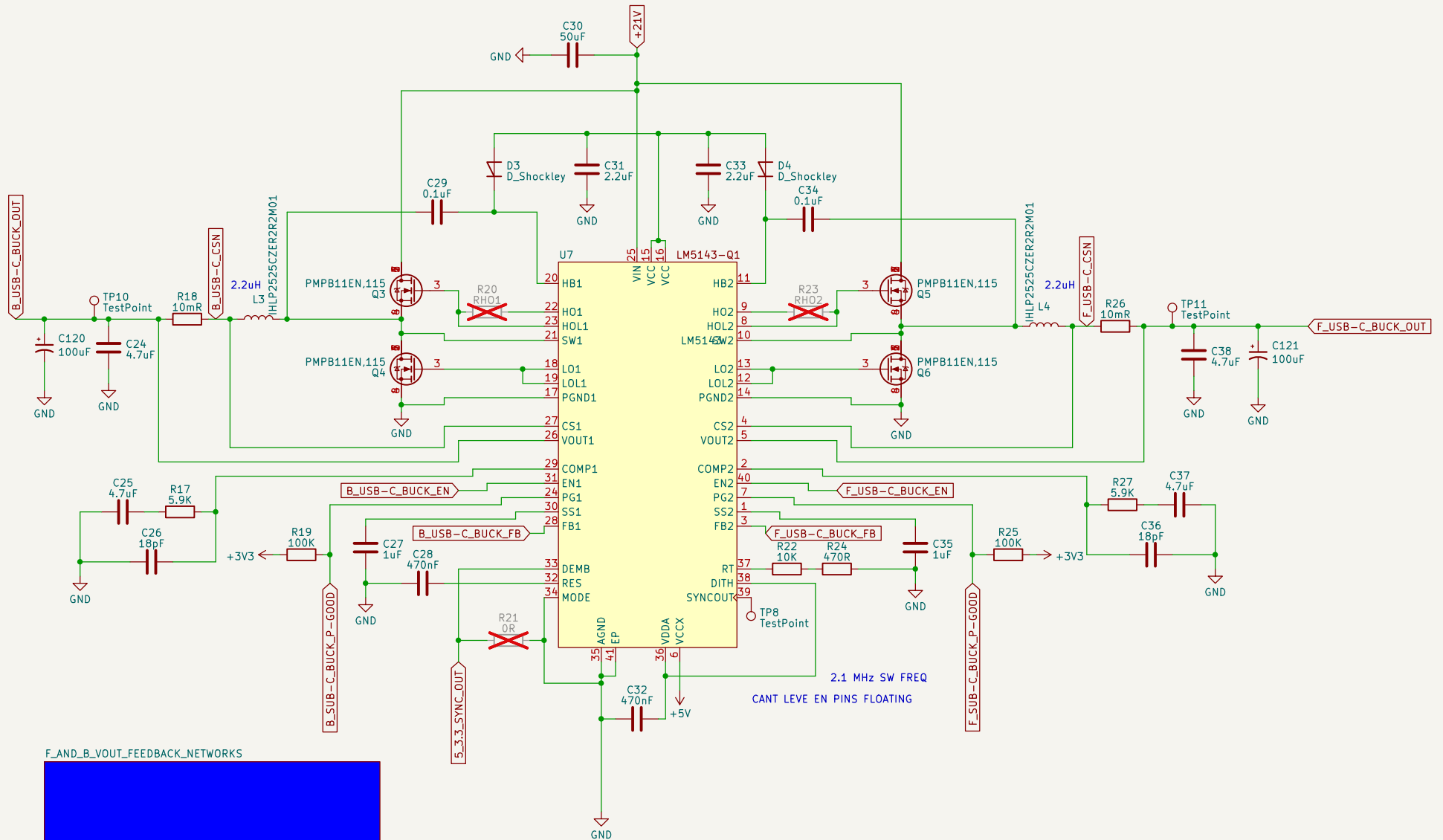
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Date: 2023-10-03

Rev: A

KiCad E.D.A. 8.0.1

Id: 1/14



F_AND_B_VOUT_FEEDBACK_NETWORKS

File: F_AND_B_VOUT_FEEDBACK_NETWORKS.kicad_sch

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

Sheet: /USB-C_POWER/
File: FRONT USB-C POWER.kicad_sch

Title: 200W USB PD 3.1 HUB

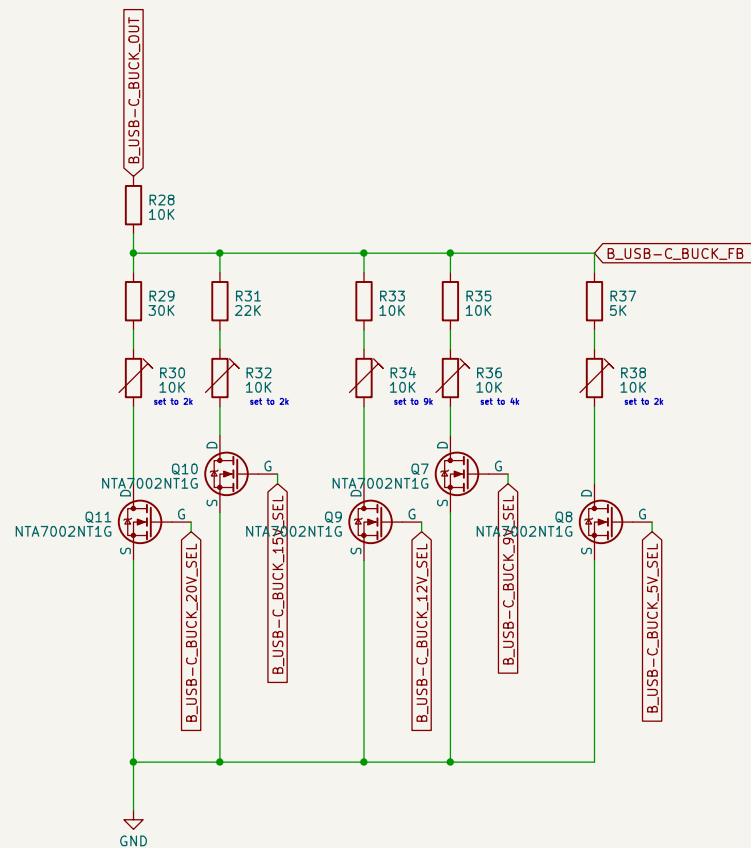
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KiCad E.D.A. 8.0.1

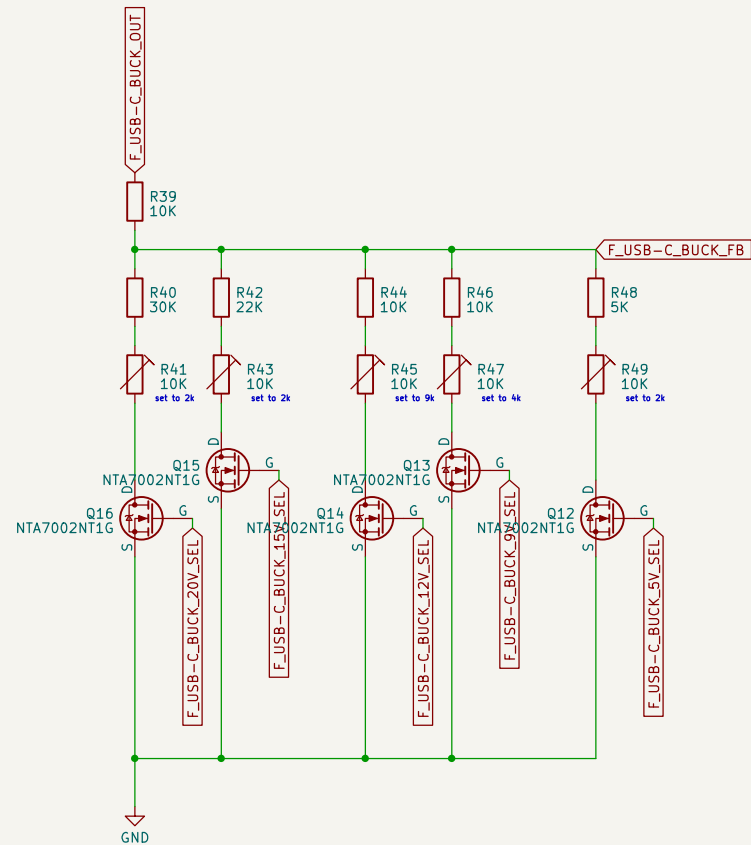
Rev: A

Id: 1/14

FRONT USB-C BUCK SELECTABLE FEEDBACK NETWORK



BACK USB-C BUCK SELECTABLE FEEDBACK NETWORK



TOTAL SYSTEM POWER IS ~275w

HUB USB SPEC 3.1

THIS IS A 2X 100W USB PD SOURCE

MICK MAKE

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

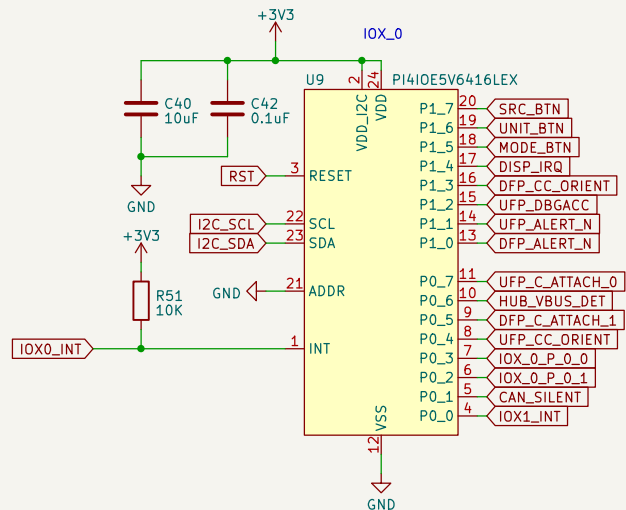
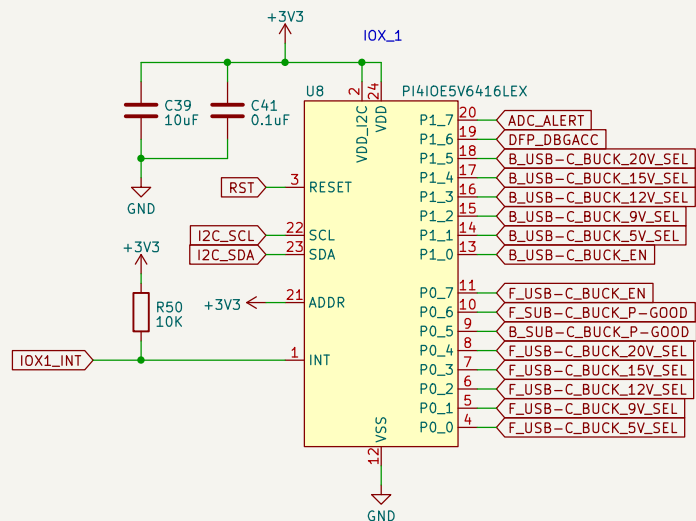
Date: 2023-10-03

Rev: A

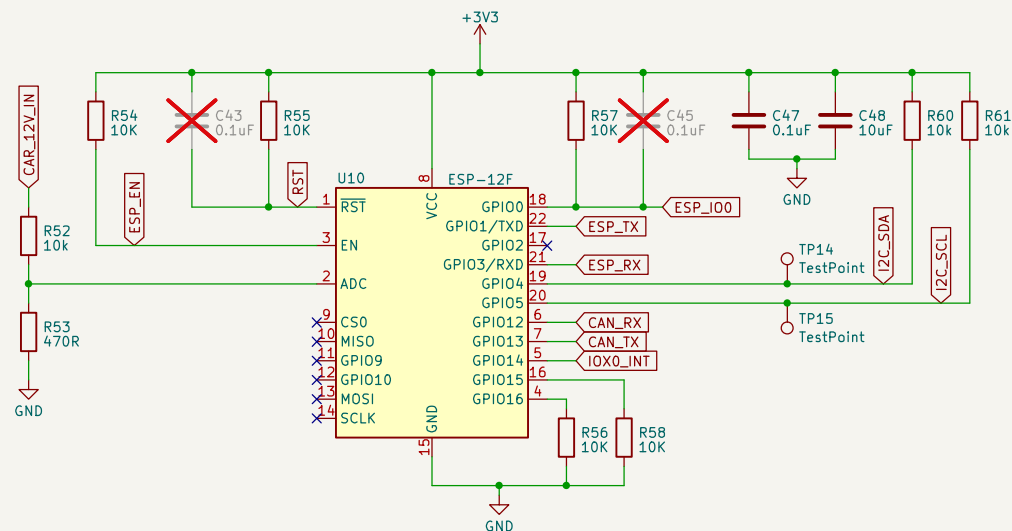
KiCad E.D.A. 8.0.1

Id: 1/14

IO EXPANDERS

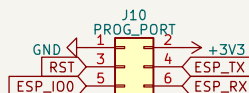
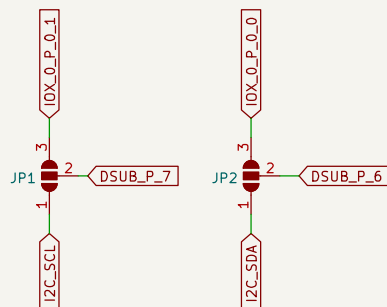


ESP-12F

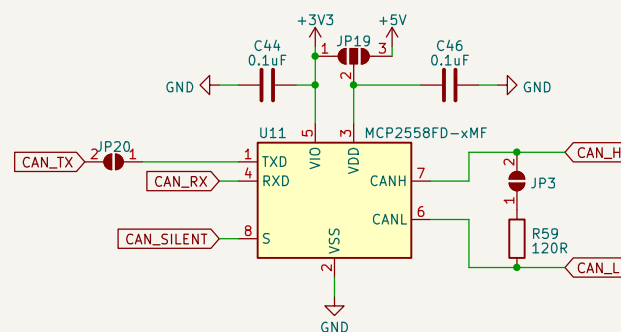


I THINK THE I2C PULLUPS SHOULD BE 2K2 BUT THE USB HUB SPECS THEM FOR 10K AND SAYS ITL HANG IF IT DOESNT SEE 10K SO I HOPE THIS ALLOWS THE BUS TO OPERATE PROPERLY

CAR CONNECTOR GPIO OR I2C SELSCTION JUMPERS



CAN BUS TRANCEIVER



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

Sheet: /ESP-12F/
File: ESP-12F.kicad_sch

Title: 200W USB PD 3.1 HUB

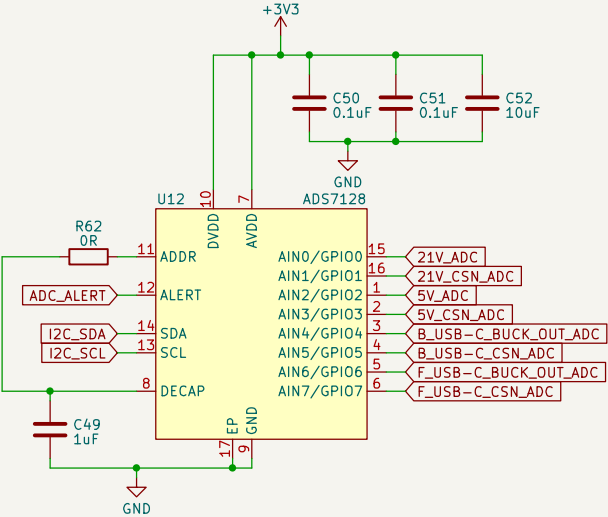
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KiCad E.D.A. 8.0.1

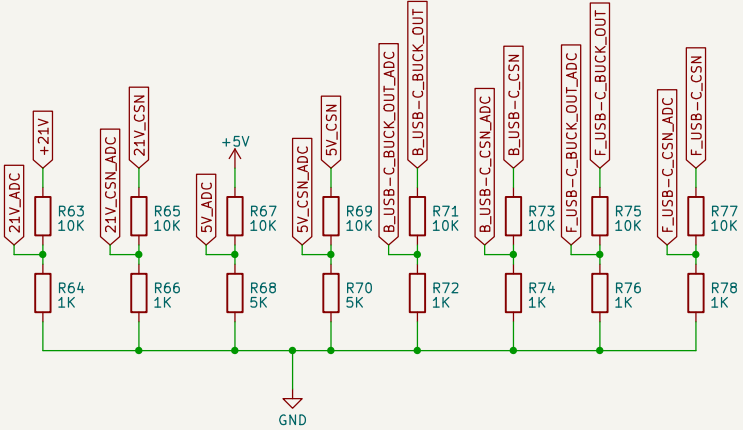
Rev: A

Id: 1/14

I2C ADC



DEVIDER NETWORKS FOR ADC INPUT



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

MICK MAKE

Sheet: /ADC/
File: ADC.kicad_sch

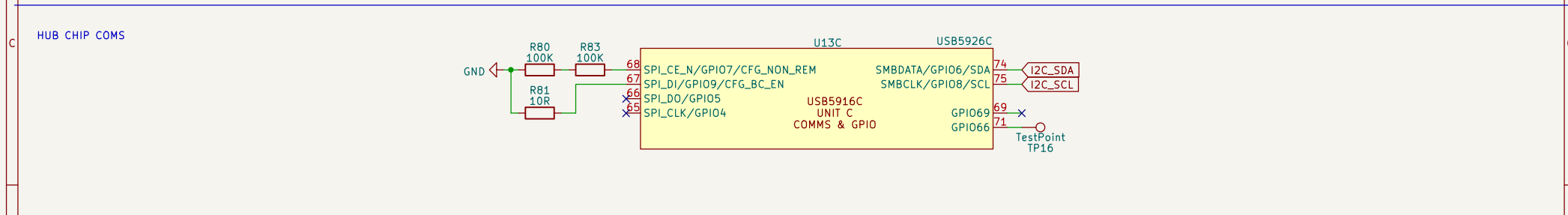
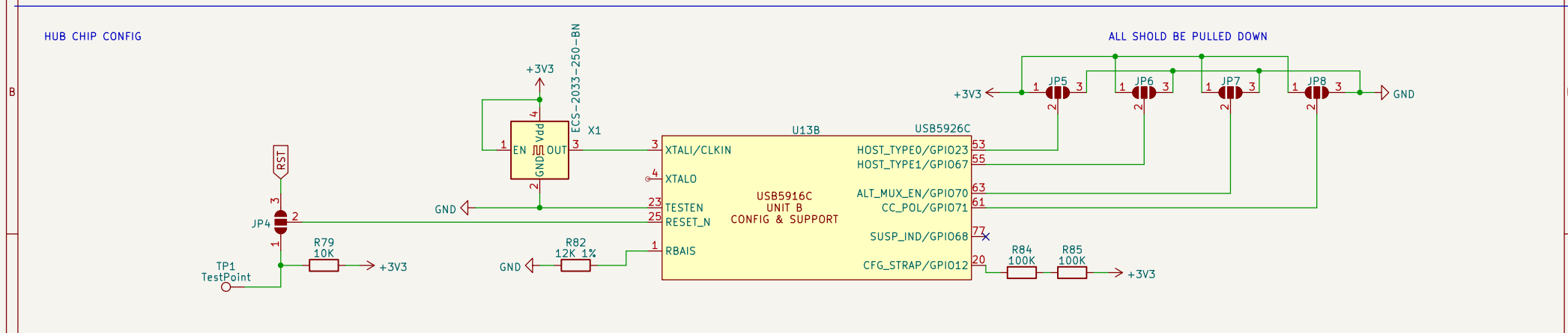
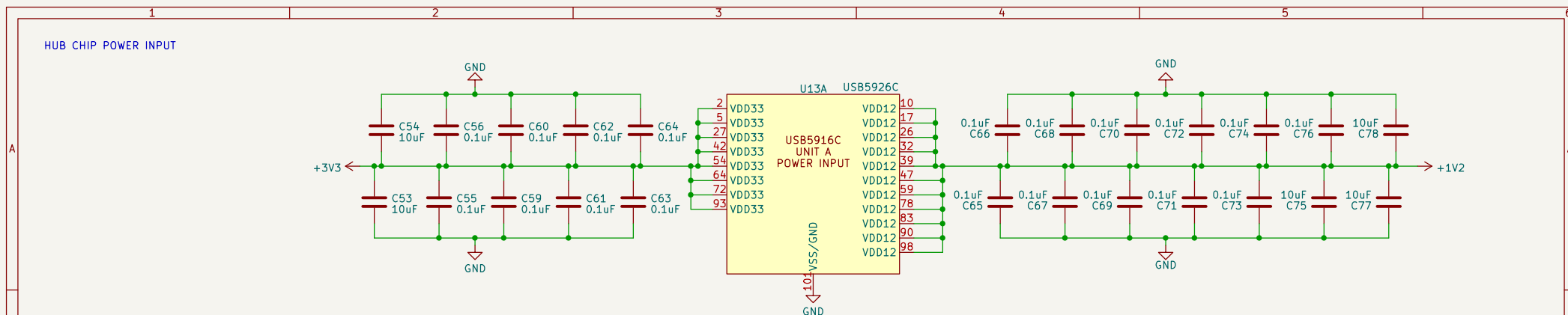
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Size: A4 Date: 2023-10-03

KiCad E.D.A. 8.0.1

Rev: A

Id: 1/14



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

Sheet: /HUBCHIP/
File: HUBCHIP.kicad_sch

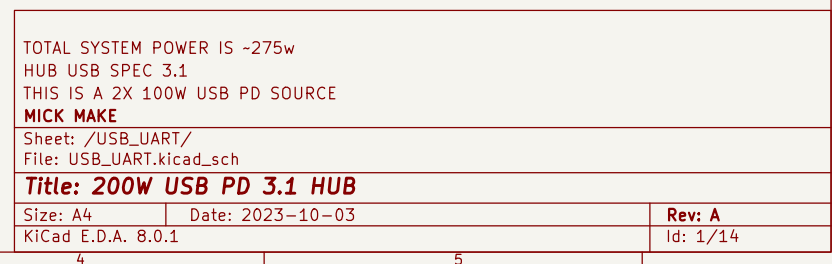
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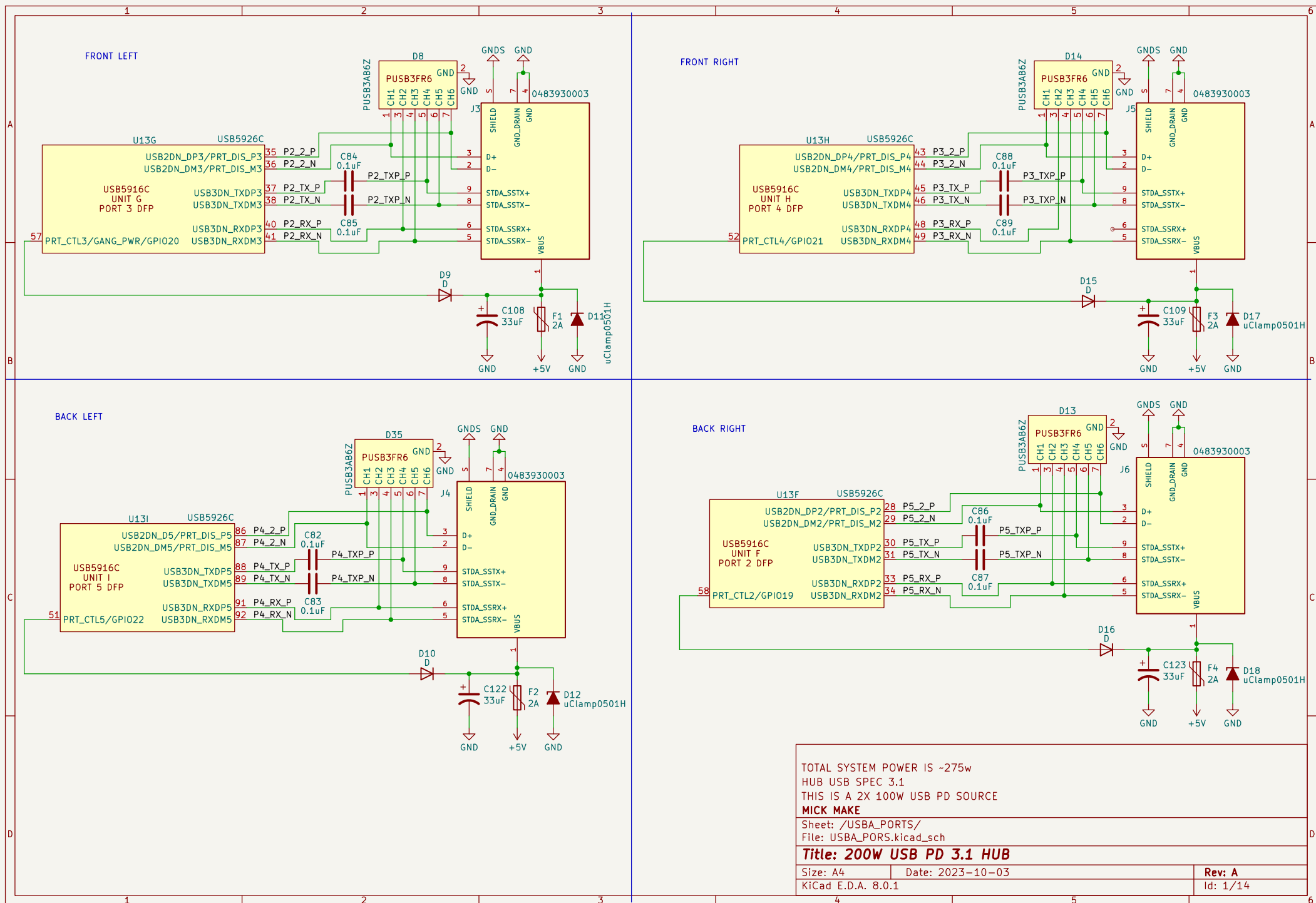
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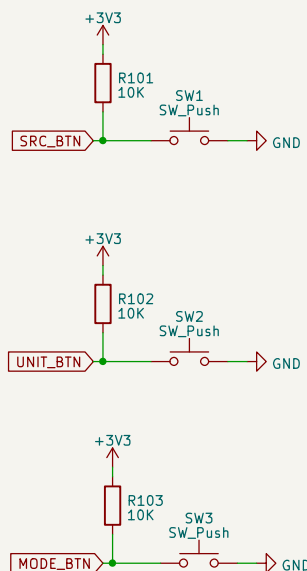
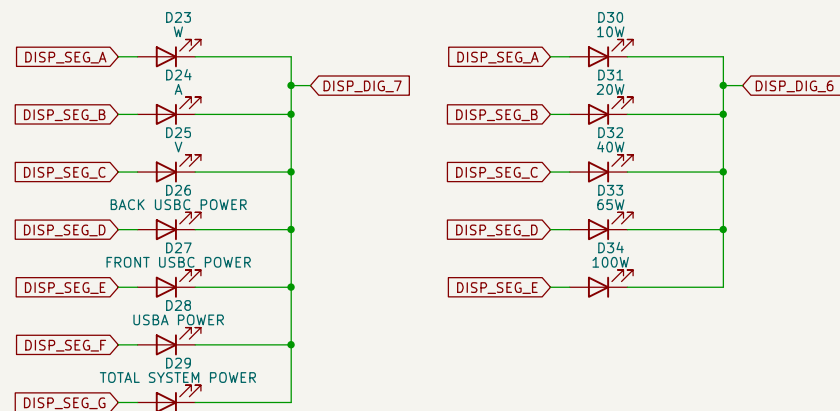
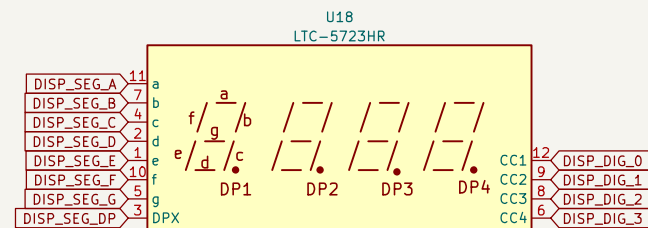
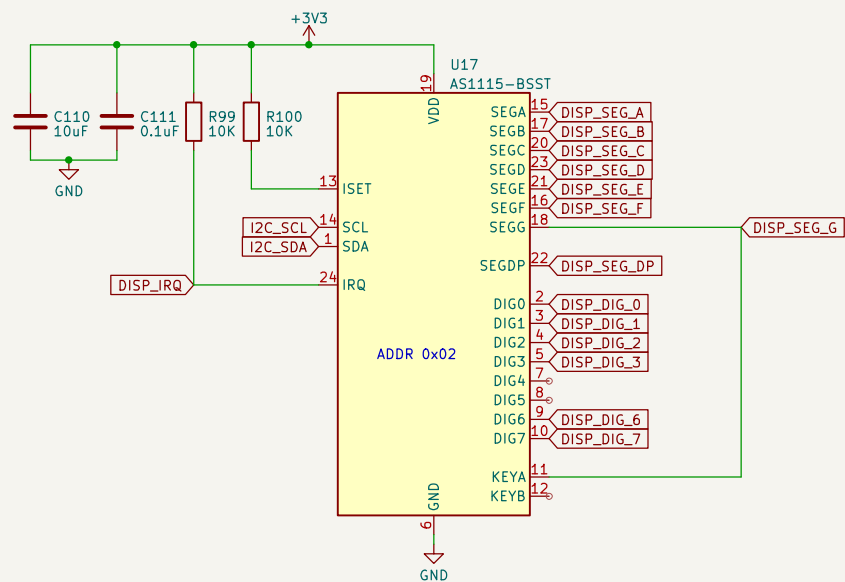
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Rev: A

Id: 1/14



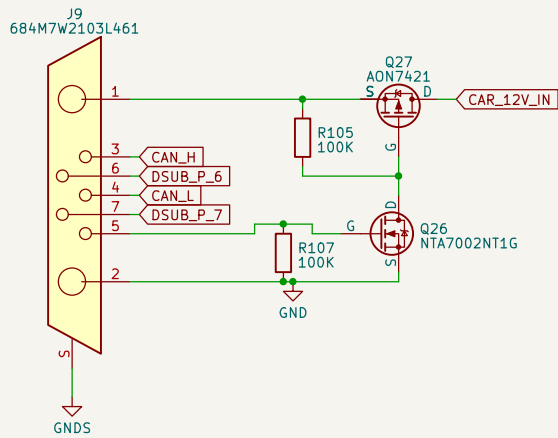




Title: 200W USB PD 3.1 HUB

4	
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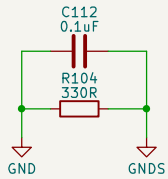
CAR CONNECTOR



MOUNTING HOLES

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

SHELD LINK



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

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. 8.0.1

Rev: A

Id: 1/14