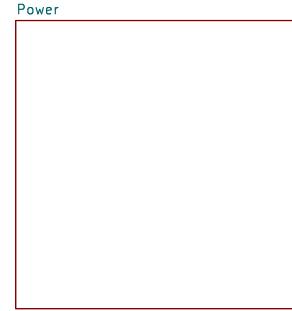


Mixed-Signal Demo PCB

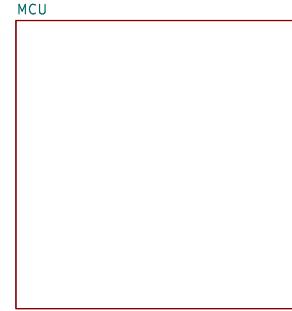
A

[1] Power



File: Power.kicad_sch

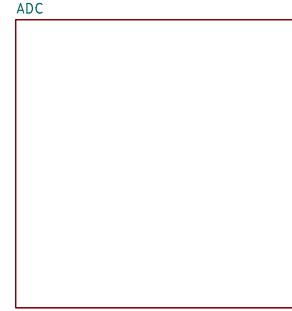
[2] MCU



File: MCU.kicad_sch

B

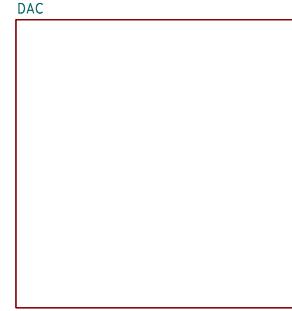
[3] ADC



File: ADC.kicad_sch

C

[4] DAC



File: DAC.kicad_sch

D

Mounting Holes (M3)

- H1
MountingHole
- H2
MountingHole
- H3
MountingHole
- H4
MountingHole

Sheet: /
File: Nemesis-MixSigPCB.kicad_sch

Title: Mixed-Signal Demo PCB

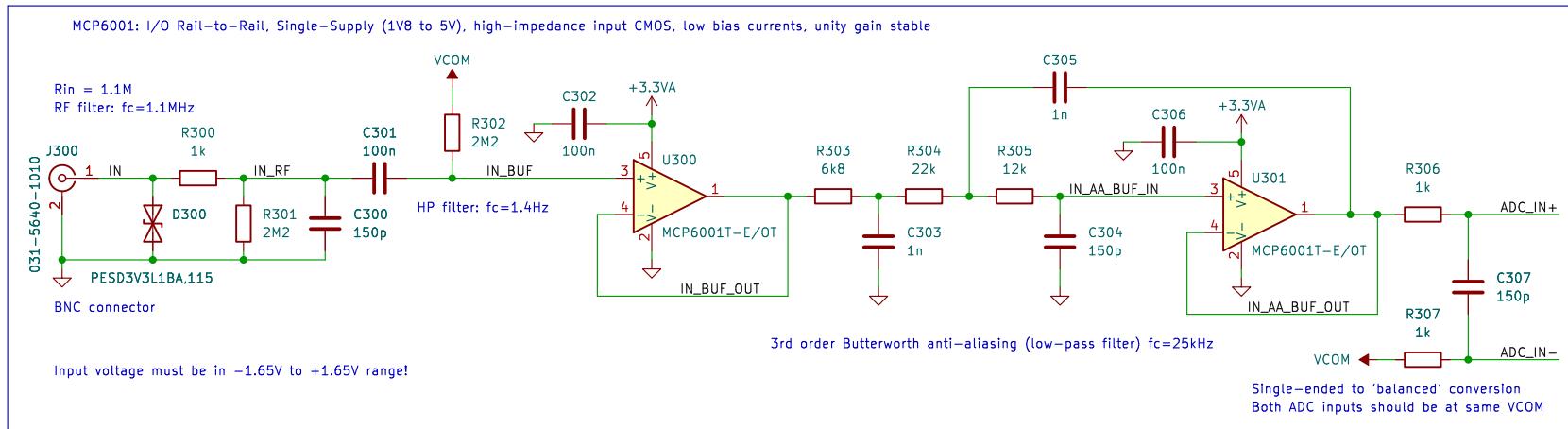
Size: A4 Date: 2022-01-04
KiCad E.D.A. 9.0.6

Rev: 0.1
Id: 1/5

[3] ADC & Analog Front-End

A

Analogue Front-End



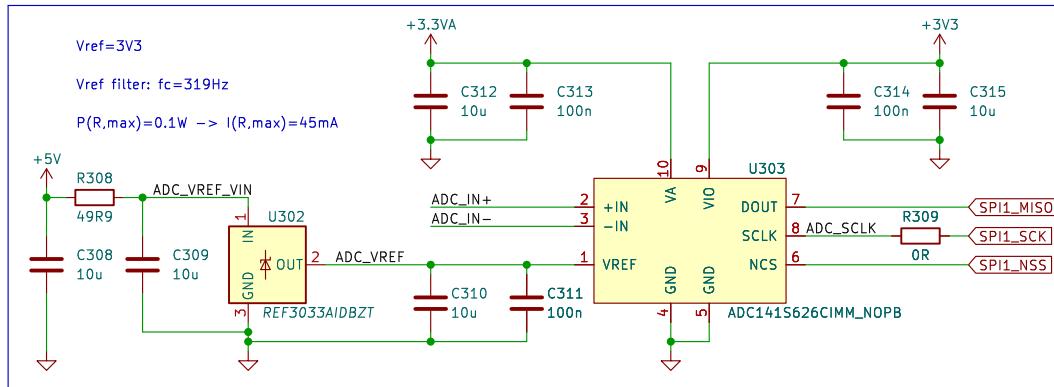
B

A

B

B

14-Bit S/H ADC



C

C

D

D

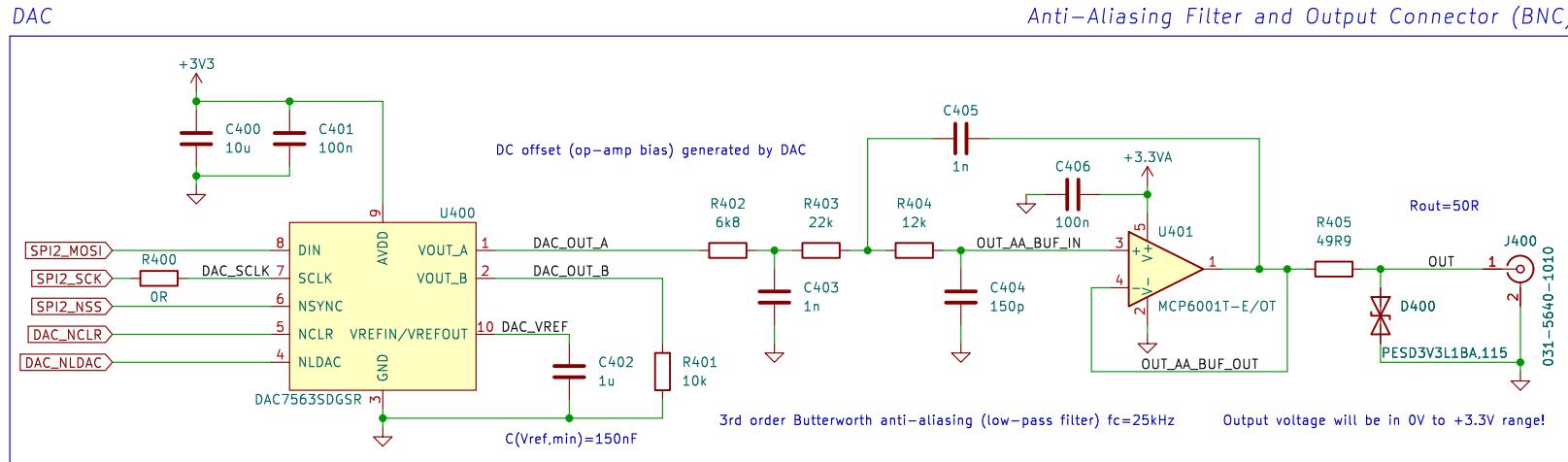
Sheet: /ADC/
File: ADC.kicad_sch

Title: Mixed-Signal Demo PCB

Size: A4 Date:
KiCad E.D.A. 9.0.6

Rev: 0.1
Id: 2/5

[4] DAC & Analog Output Circuitry



Sheet: /DAC/
File: DAC.kicad_sch

Title: Mixed-Signal Demo PCB

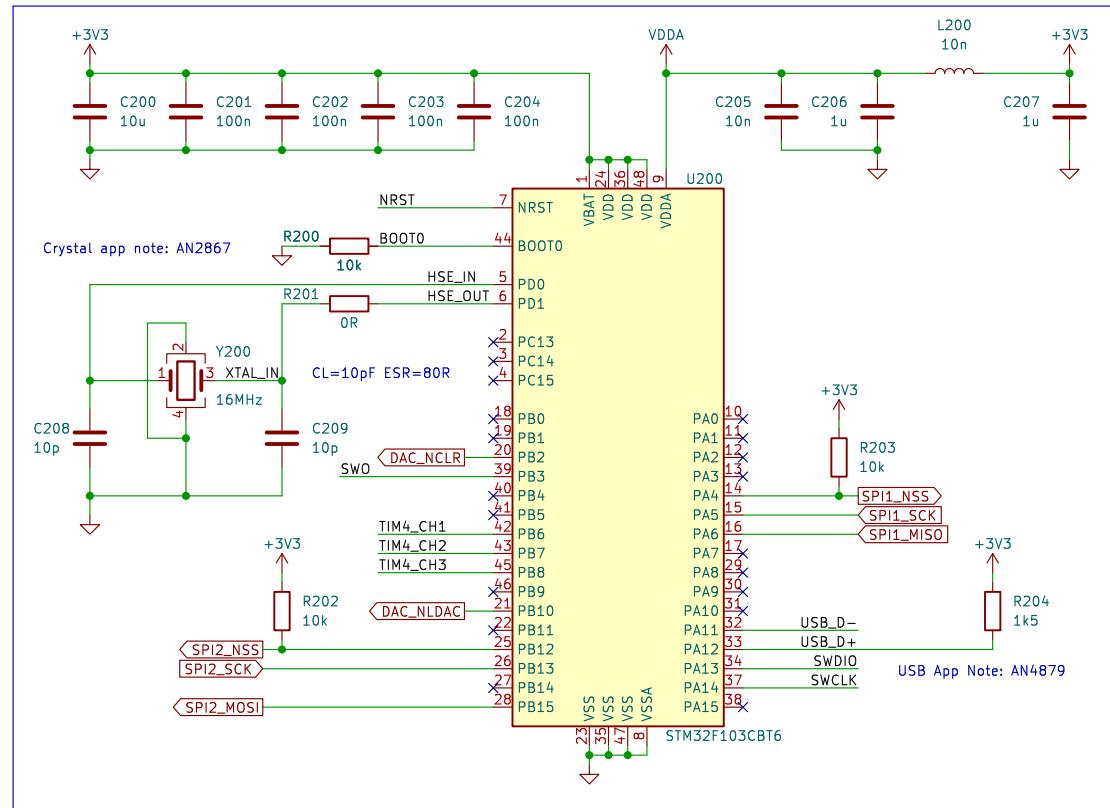
Size: A4 Date:
KiCad E.D.A. 9.0.6

Rev: 0.1
Id: 3/5

[2] Microcontroller & USB

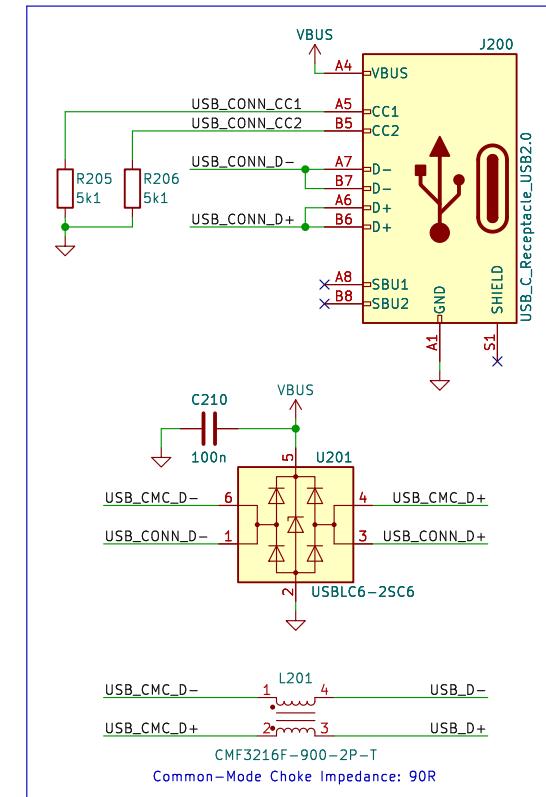
A

MCU (STM32F1)



A

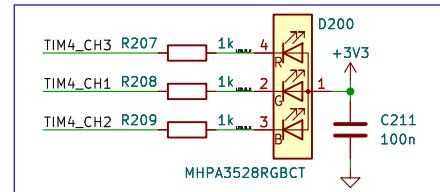
USB Type C



B

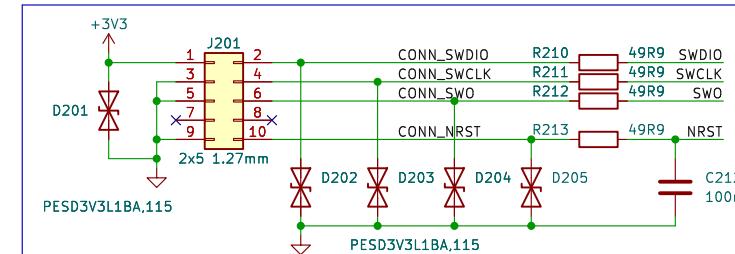
B

RGB LED



B

SWD Header



C

C

Signal Path:
Connector <-> ESD Protection <-> Common-Mode Choke <-> Pull-Up <-> MCU

D

Sheet: /MCU/
File: MCU.kicad_sch

Title: Mixed-Signal Demo PCB

Size: A4 Date: 2021-12-24

KiCad E.D.A. 9.0.6

Rev: 0.1

Id: 4/5

D

D

1

2

3

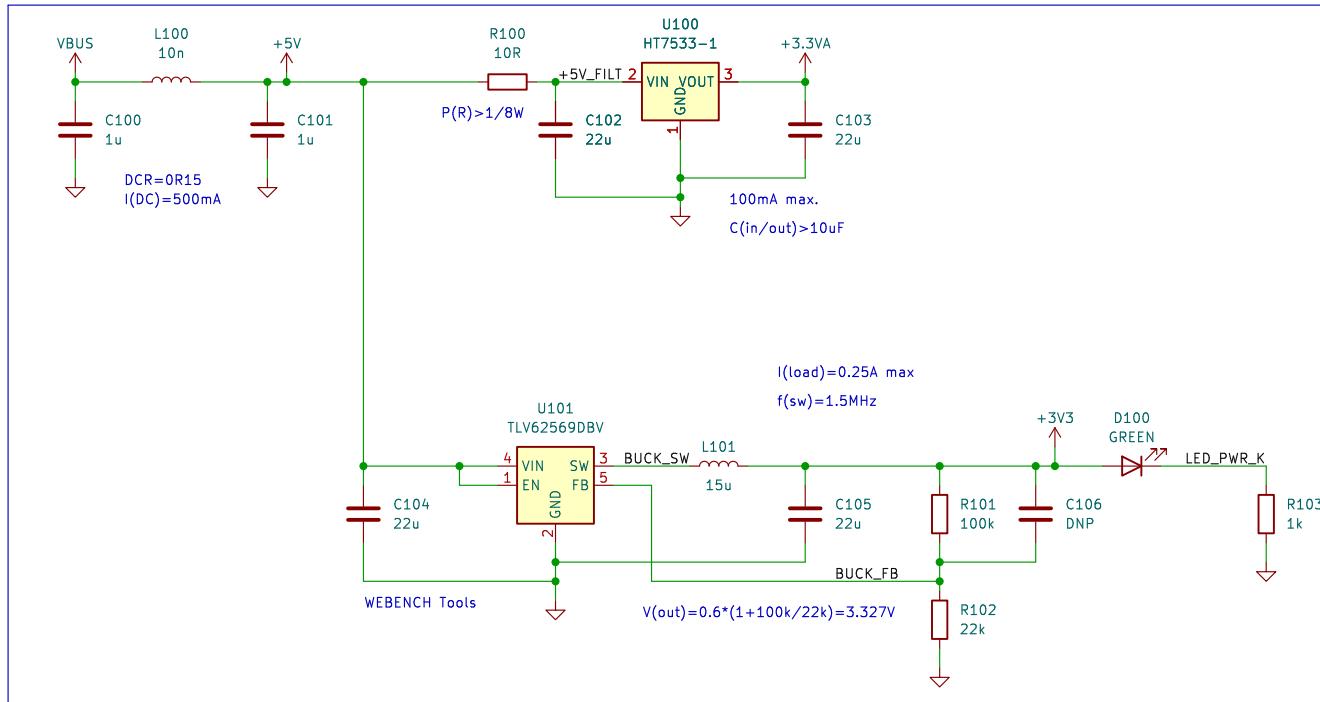
4

5

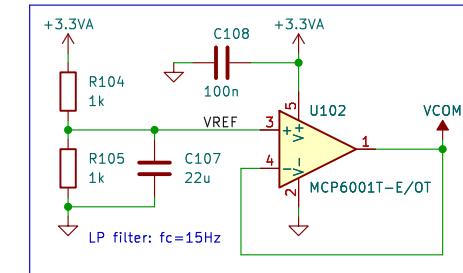
6

[1] Power

Input Filtering & Analogue and Digital Supplies



Bias Generator



Sheet: /Power/
File: Power.kicad_sch

Title: Mixed-Signal Demo PCB

Size: A4 Date:

KiCad E.D.A. 9.0.6

Rev: 0.1

Id: 5/5