

Title ***Audio-Beamformer***

Subtitle **Overview**



Author: *Florian Baumgartner & Thierry Schwaller*

Date: 10.05.2022

Rev. V1.0

File: Audio-Beamformer_V1.0_SchD

Sheet 1 of 1

1

2

3

4

△ Matching Connector:
Phoenix Contact (1779987)
48 VDC, Max. 2.0 A

X1B

48V

D1

SP1060L

TP4

GND

X1A

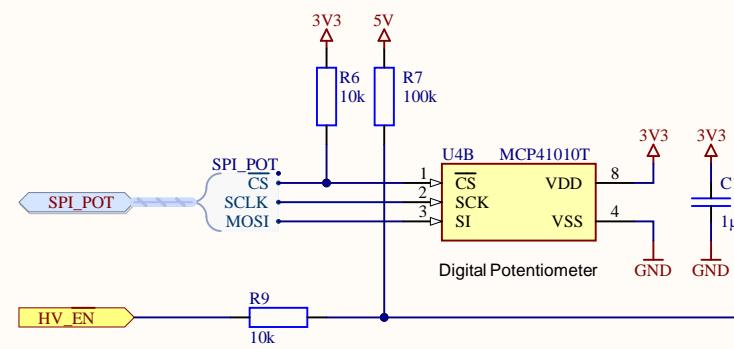
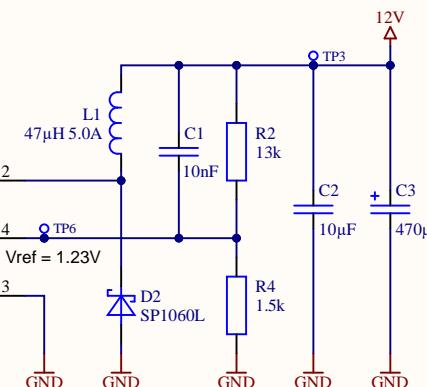
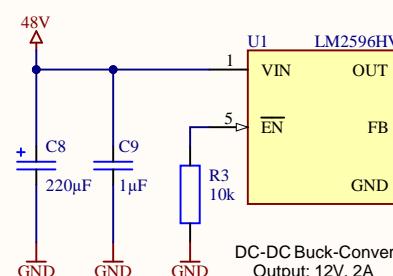
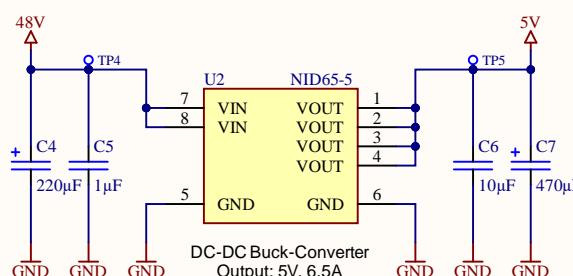
1

TP7

GND

△ Power Supply:
Mean Well (LSP-160-48T)
48 VDC, Max. 163 W

△ AC Connector:
Qualtek (703W-00/07)
IEC-320 C-14, 250 VAC, 15



SPI_POT

CS

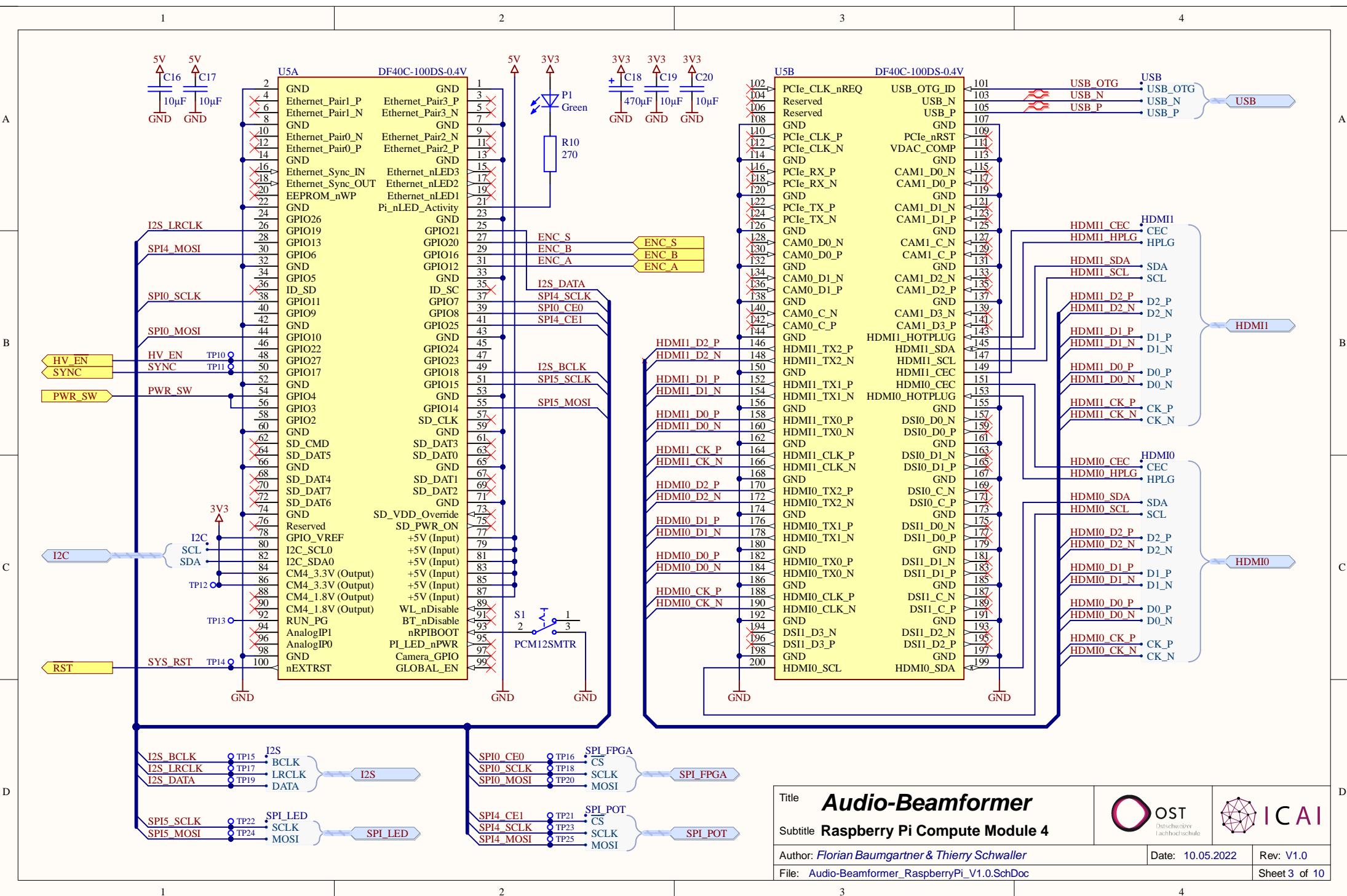
SCLK

MOSI

VDD

VSS

GND



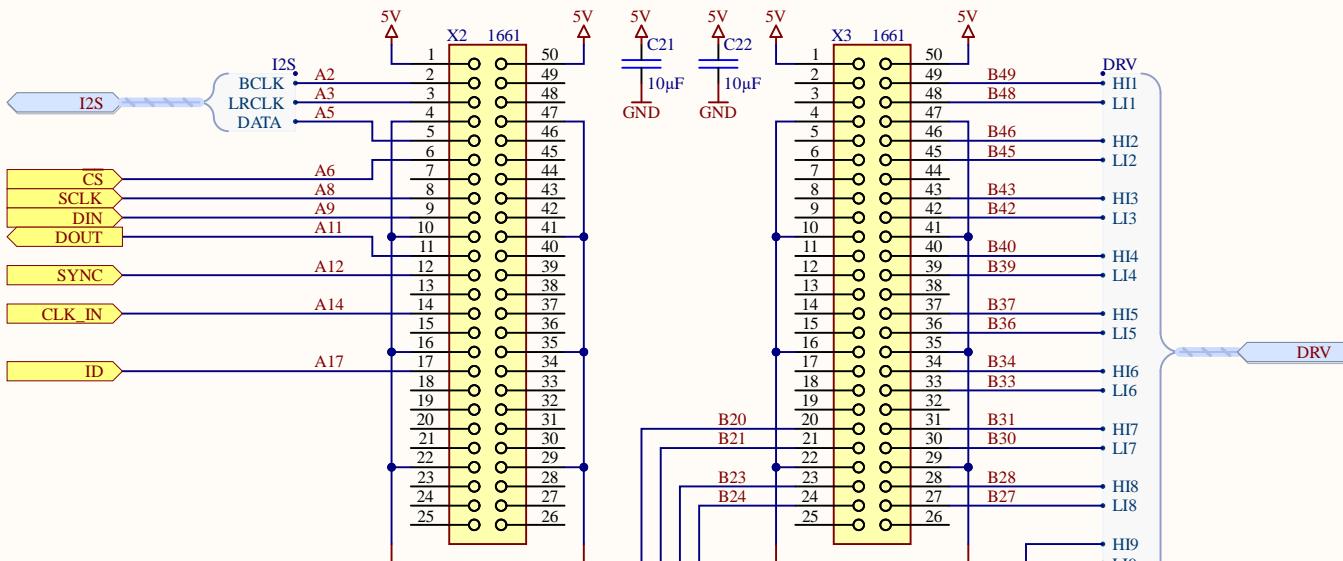
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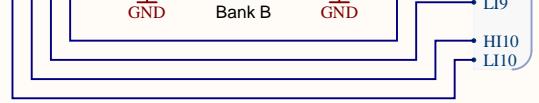
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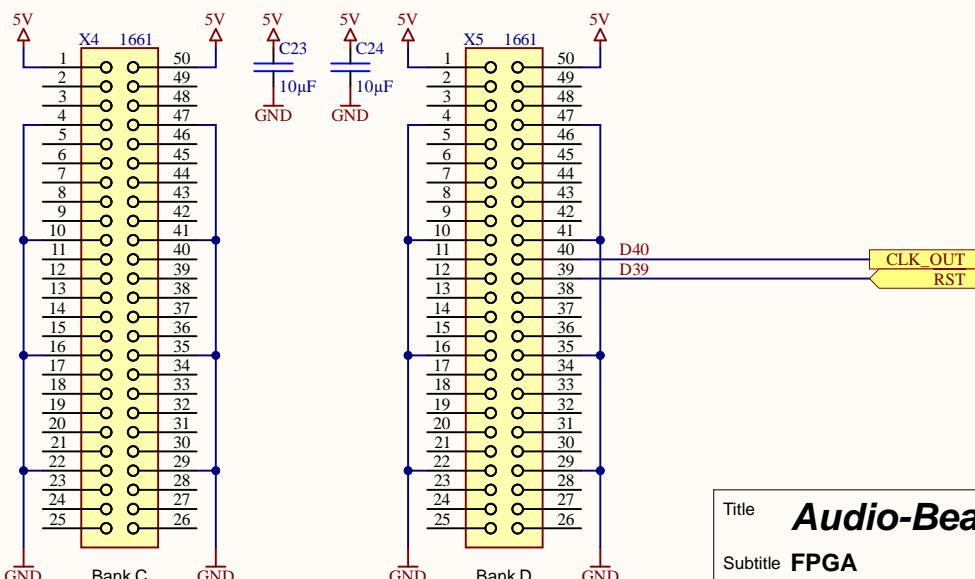
A



B



C



Audio-Beamformer

Title **Audio-Beamformer**
Subtitle **FPGA**

Author: **Florian Baumgartner & Thierry Schwaller**

File: **Audio-Beamformer_FPGA_V1.0.SchDoc**



Date: **10.05.2022**

Rev: **V1.0**

Sheet **4 of 10**

1

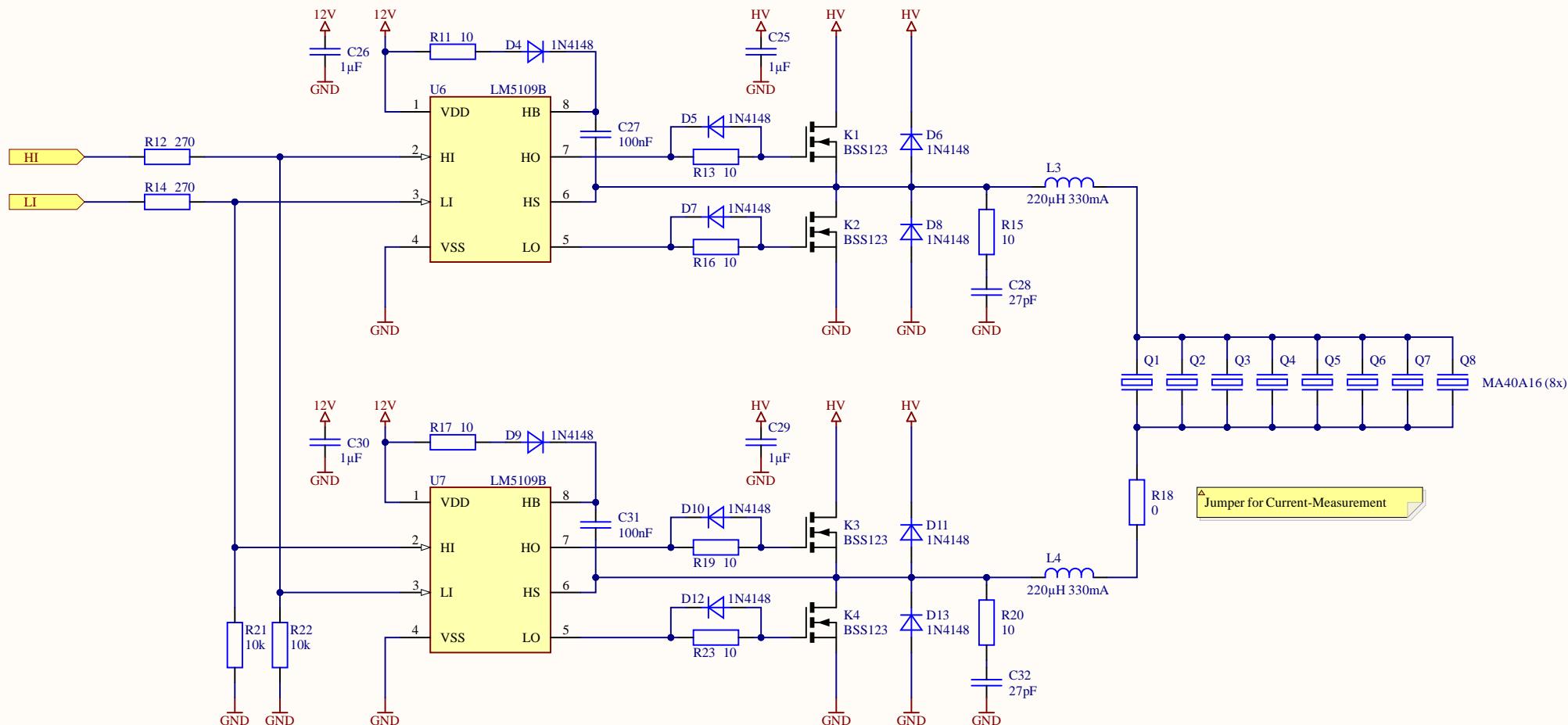
2

3

4

A

A



B

B

C

C

D

D

Title

Audio-Beamformer

Subtitle H-Bridge Driver

Author: Florian Baumgartner & Thierry Schwaller

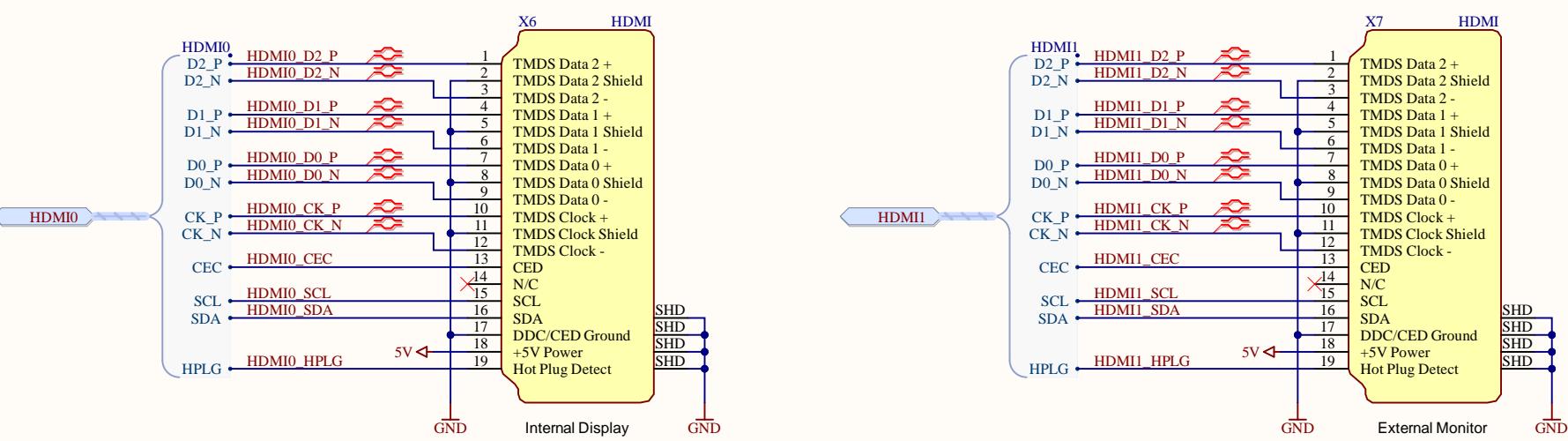
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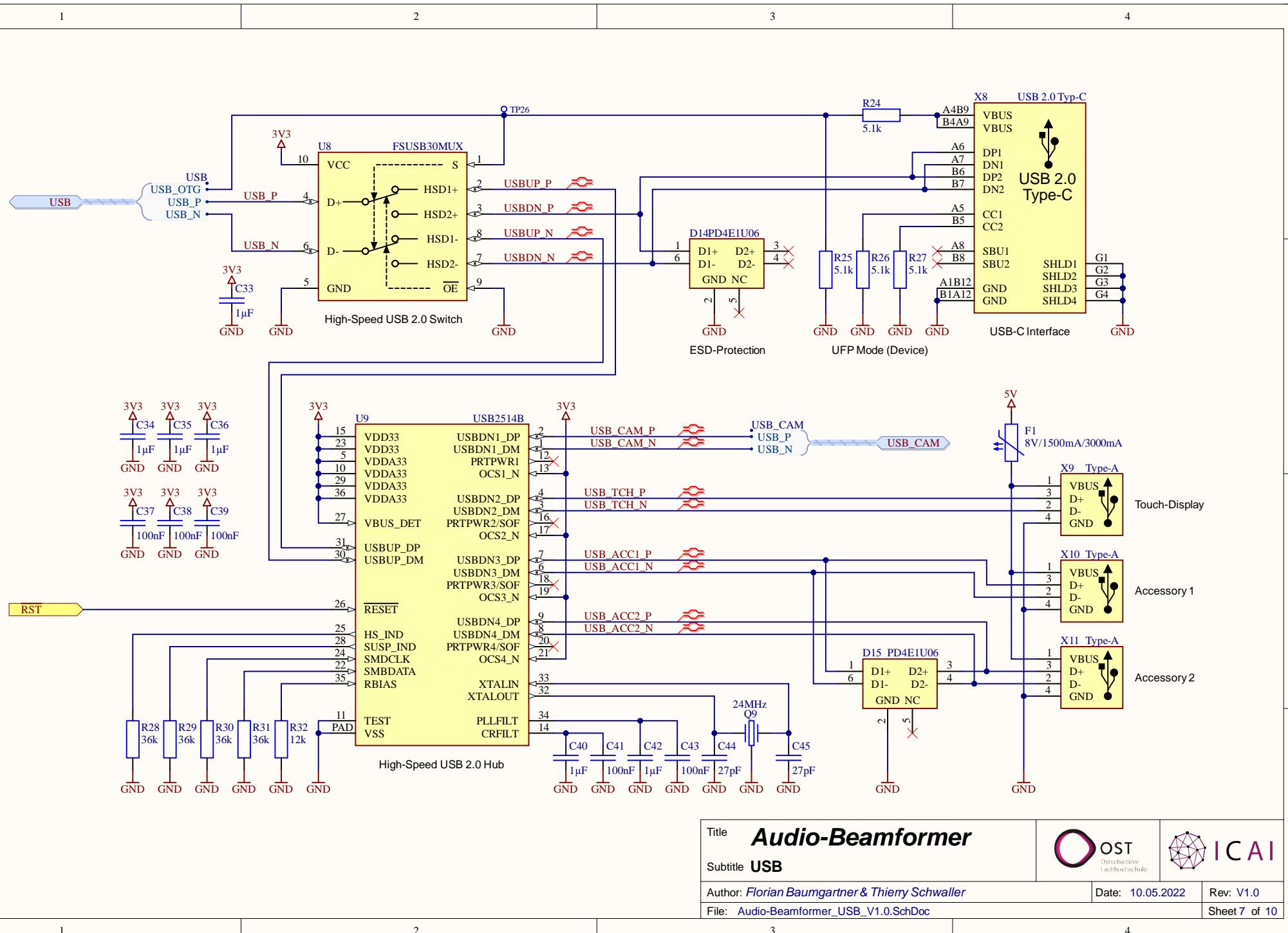


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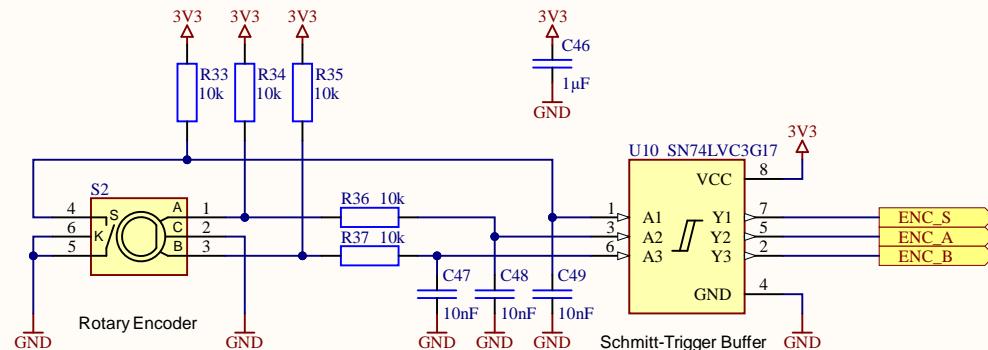
Rev: V1.0

Sheet 5 of 10



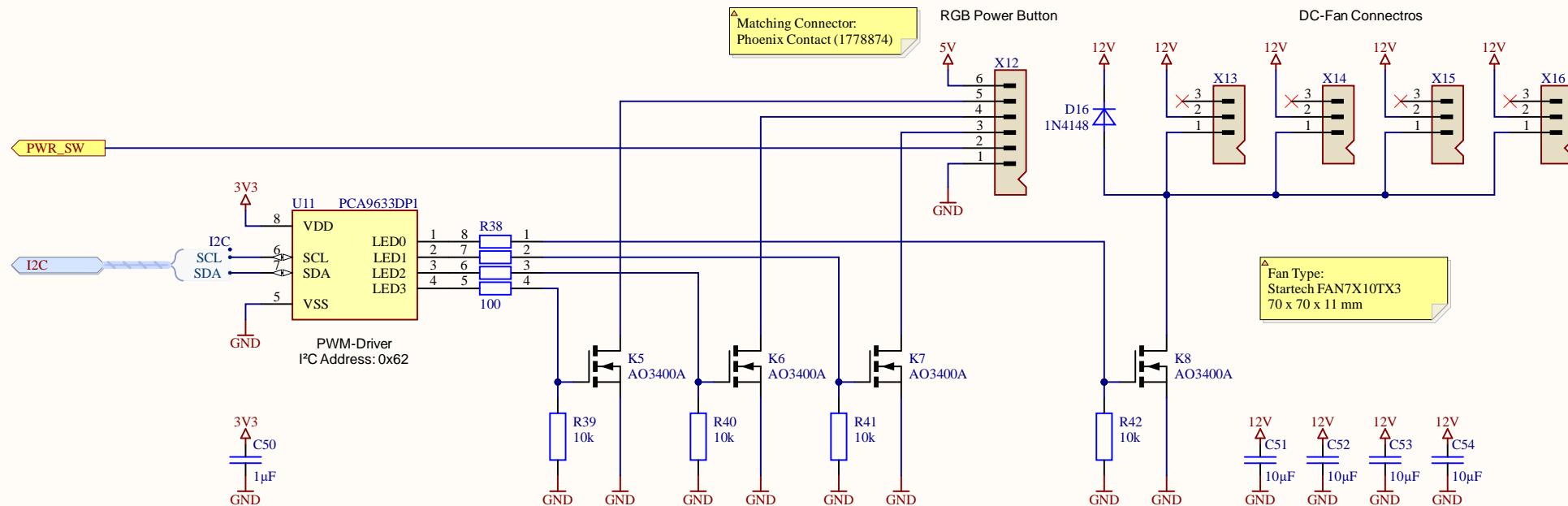


A



A

B



B

C

Title

Audio-Beamformer

Subtitle HMI

Author: Florian Baumgartner & Thierry Schwaller

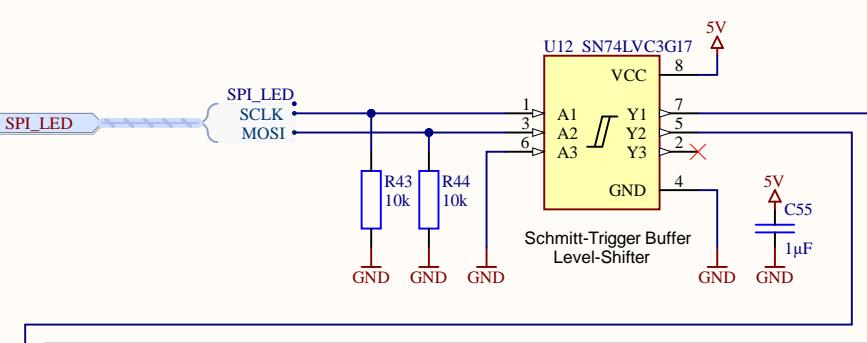
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Date: 10.05.2022

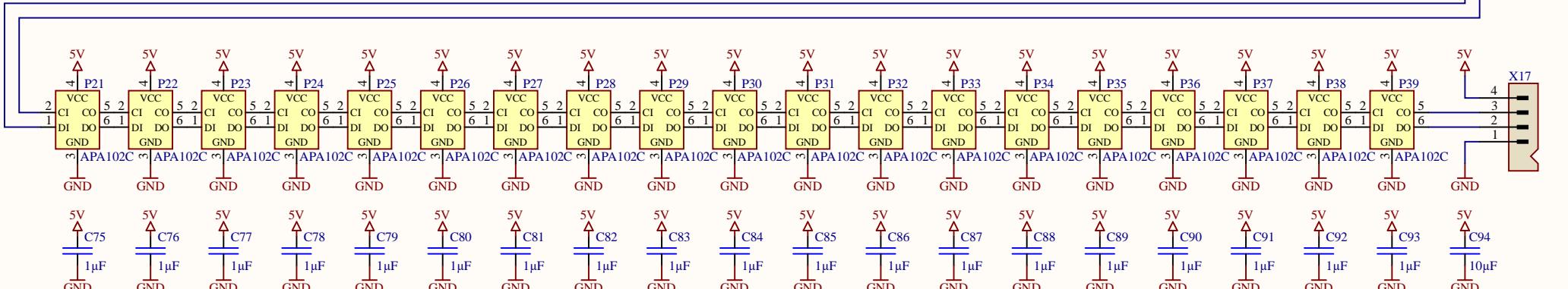
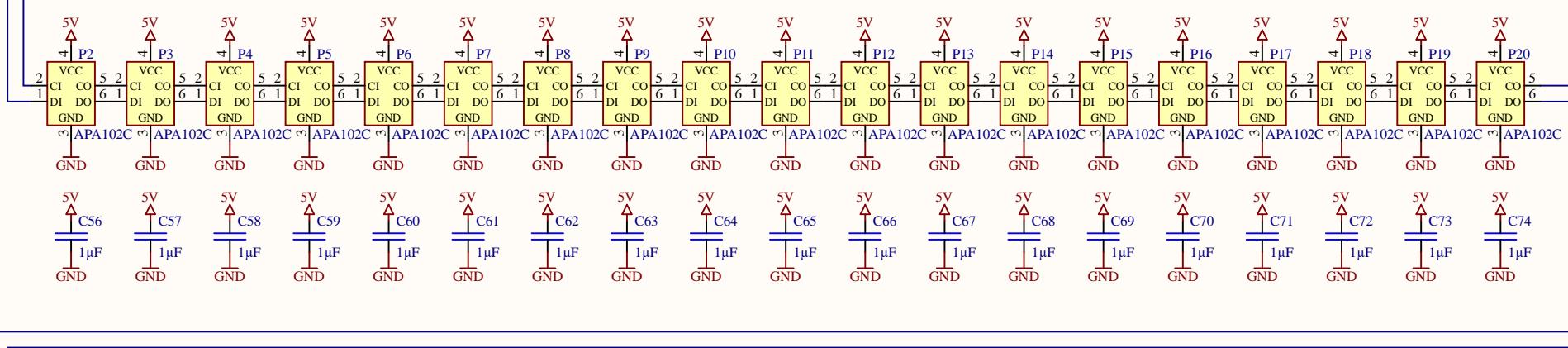
Rev: V1.0

Sheet 8 of 10



LED Ring:
Sparkfun (COM-14967)
APA102C (20 LEDs, 25.4 mm)

Matching Connector:
Phoenix Contact (1778858)



Audio-Beamformer

Subtitle LEDs

Author: Florian Baumgartner & Thierry Schwaller

File: Audio-Beamformer_LED_V1.0.SchDoc



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Rev: V1.0

Sheet 9 of 10

