

Title **Audio-Beamformer**
Subtitle **Overview**

Author: *Florian Baumgartner & Thierry Schwaller*
File: *Audio-Beamformer_V1.0.SchDoc*



Date: *31.05.2022*

Rev: *V1.0*

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1

2

3

4

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

X1B

48V

D1

SP1060L

TP4

GND

X1A

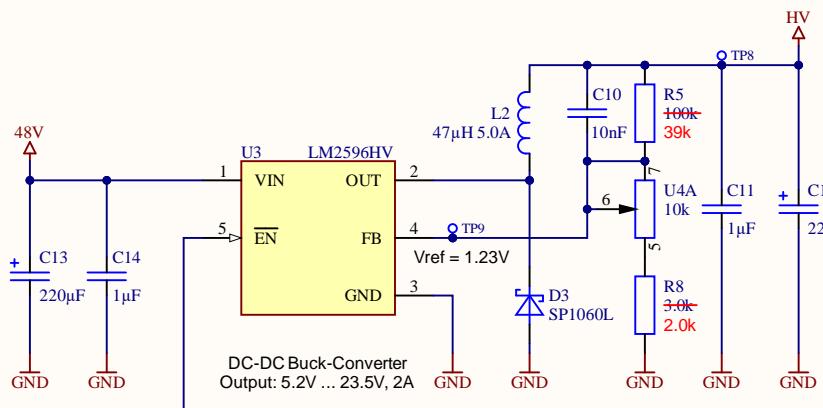
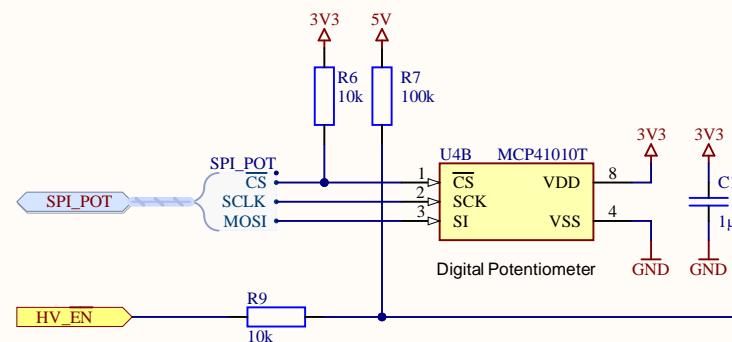
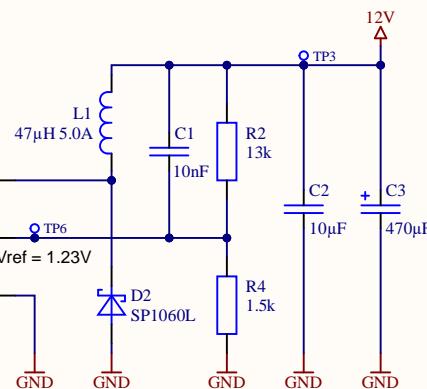
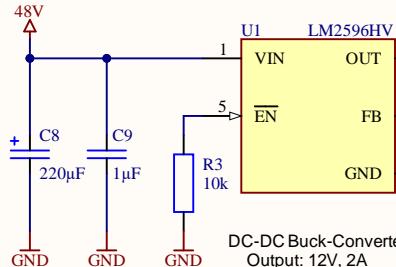
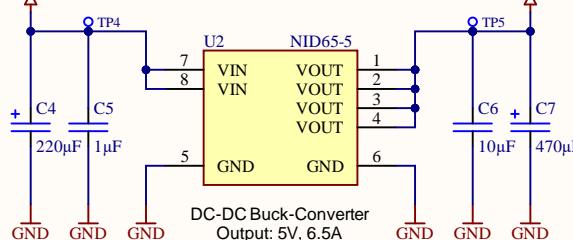
1

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



Title **Audio-Beamformer**

Subtitle **Power Supply**

Author: *Florian Baumgartner & Thierry Schwaller*

File: [Audio-Beamformer_Supply_V1.0.SchDoc](#)



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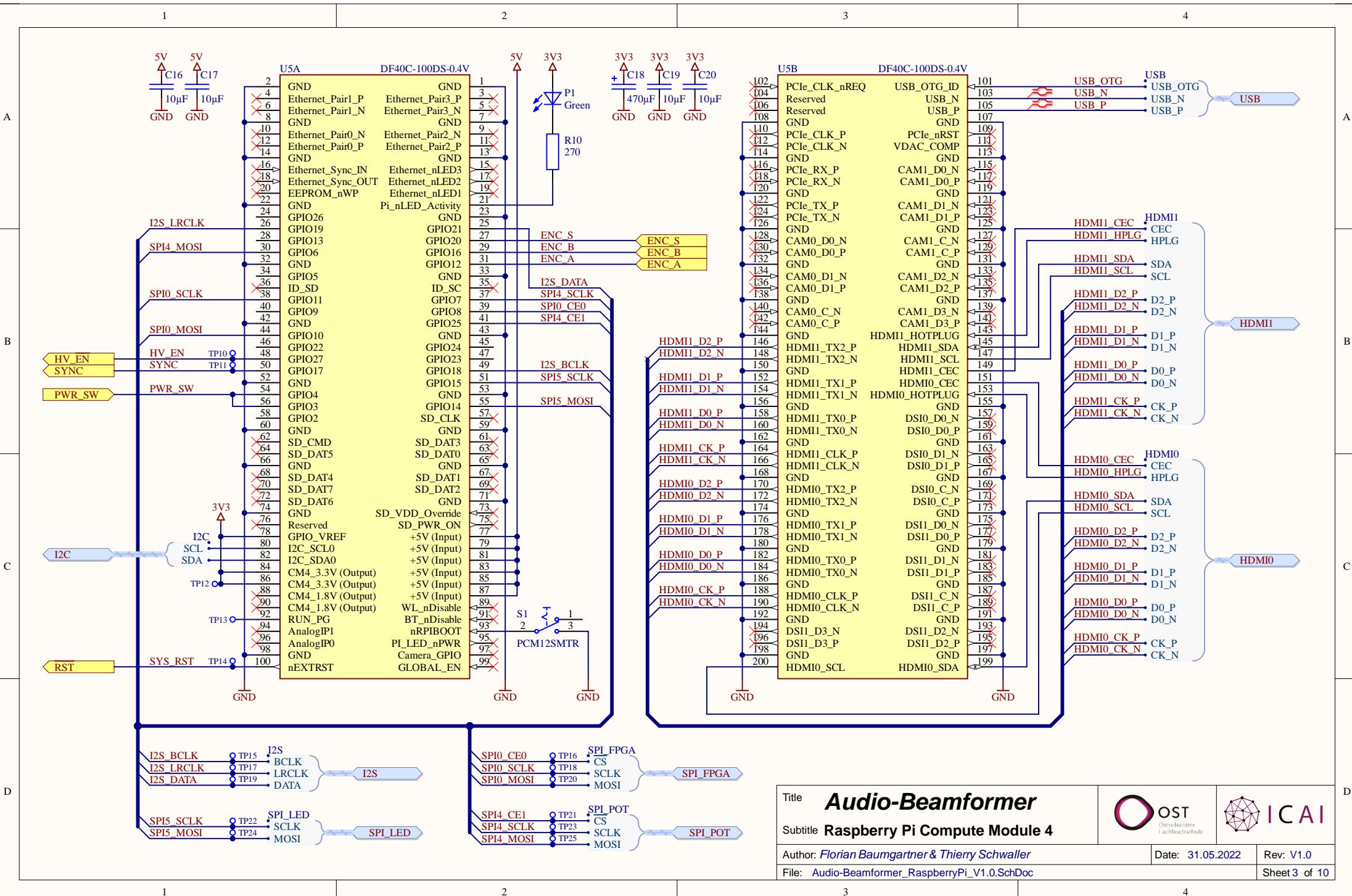
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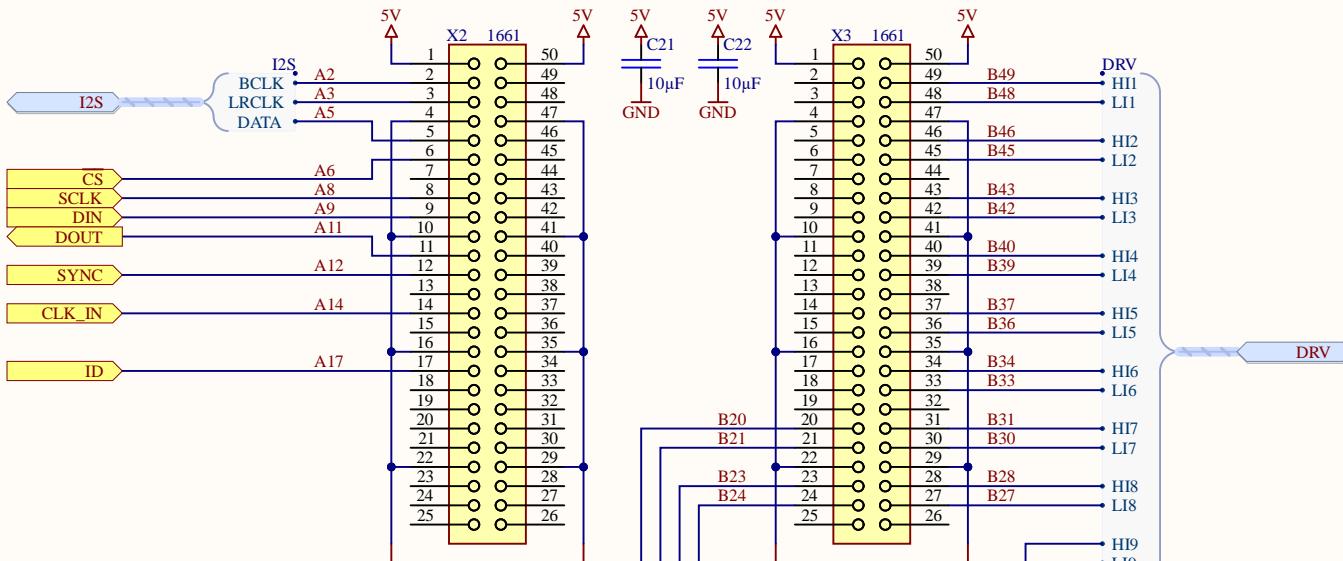
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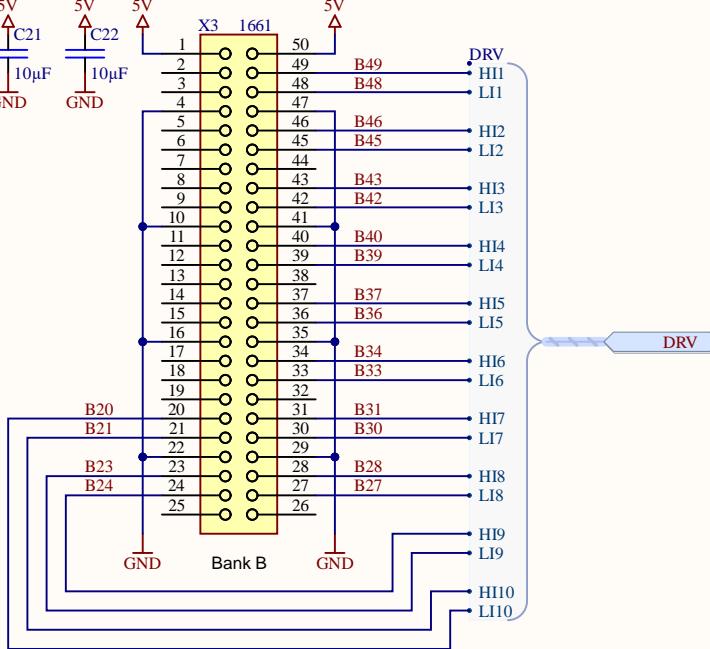
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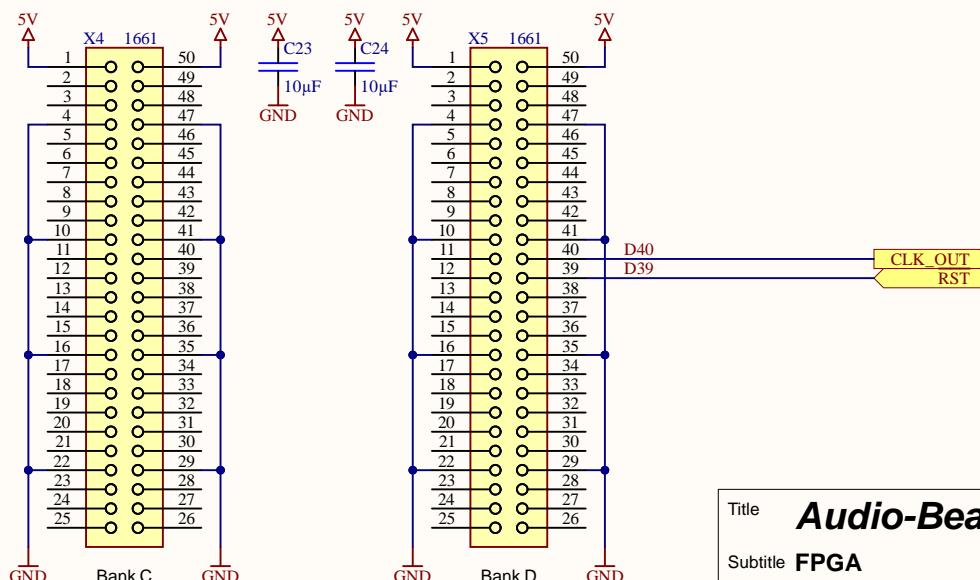
A



B



C



D

Audio-Beamformer

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

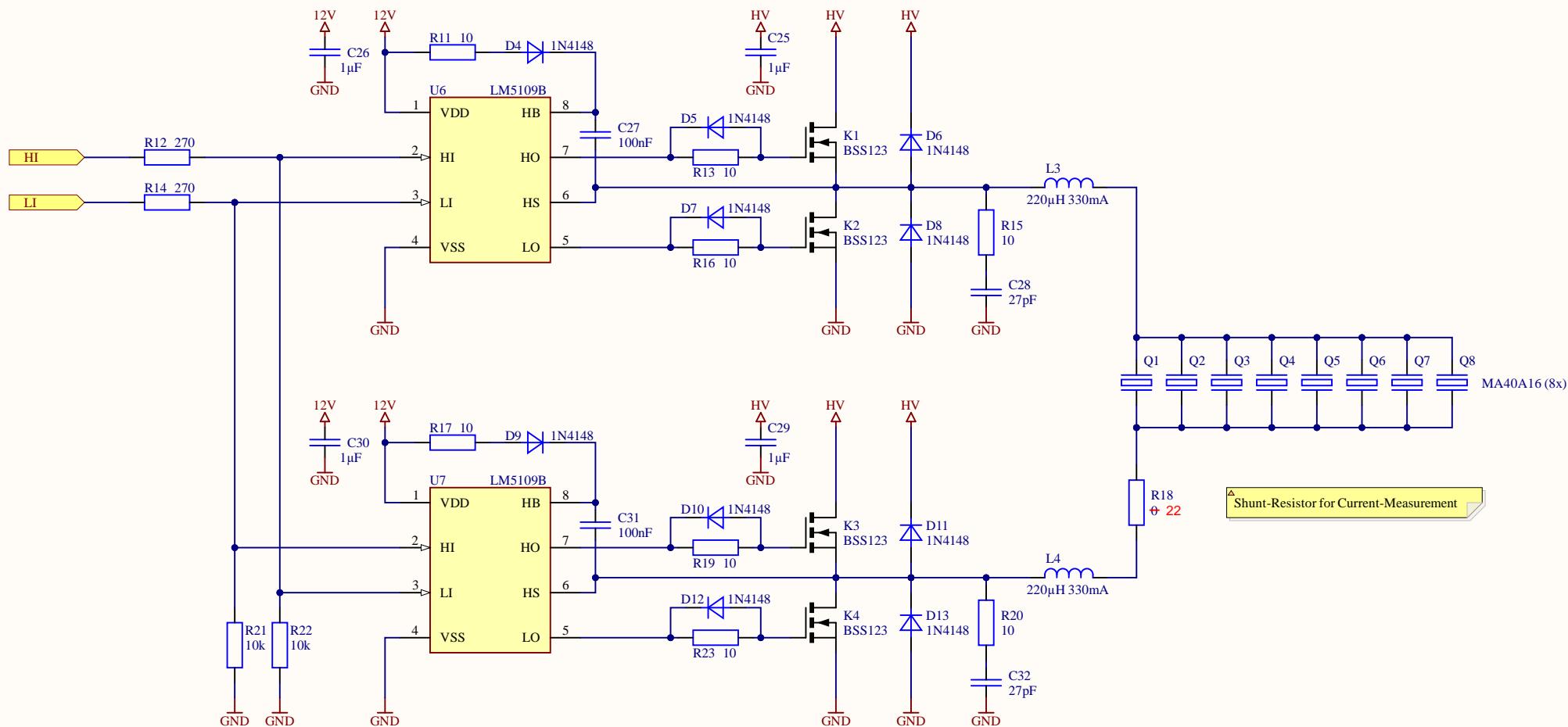
Author: **Florian Baumgartner & Thierry Schwaller**

Date: **31.05.2022** Rev: **V1.0**
 File: **Audio-Beamformer_FPGA_V1.0.SchDoc**



A

A



Title **Audio-Beamformer**

Subtitle **H-Bridge Driver**

Author: *Florian Baumgartner & Thierry Schwaller*

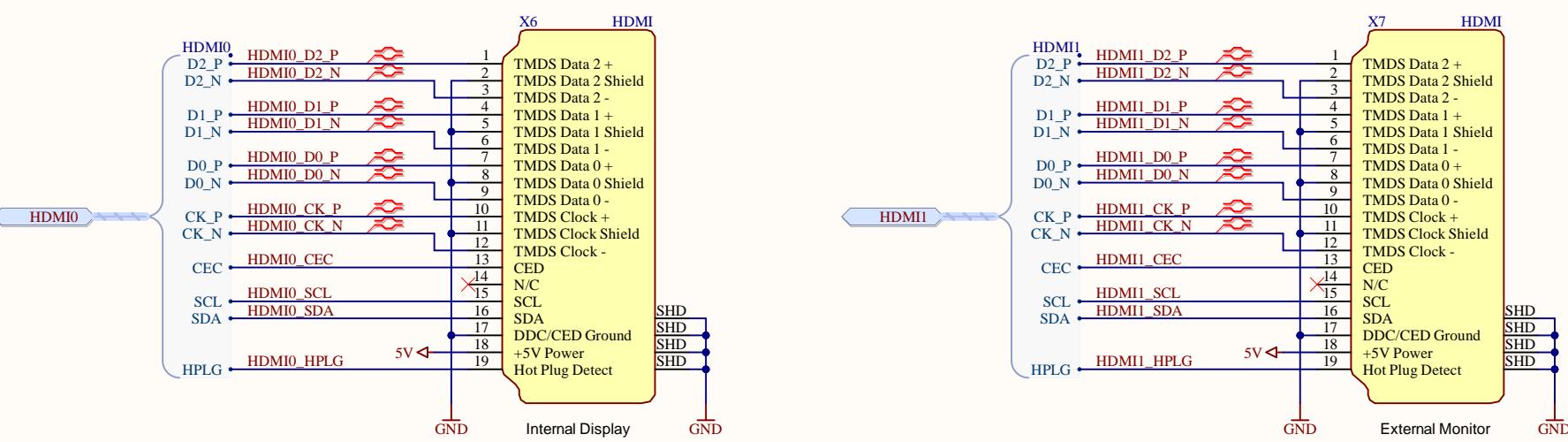
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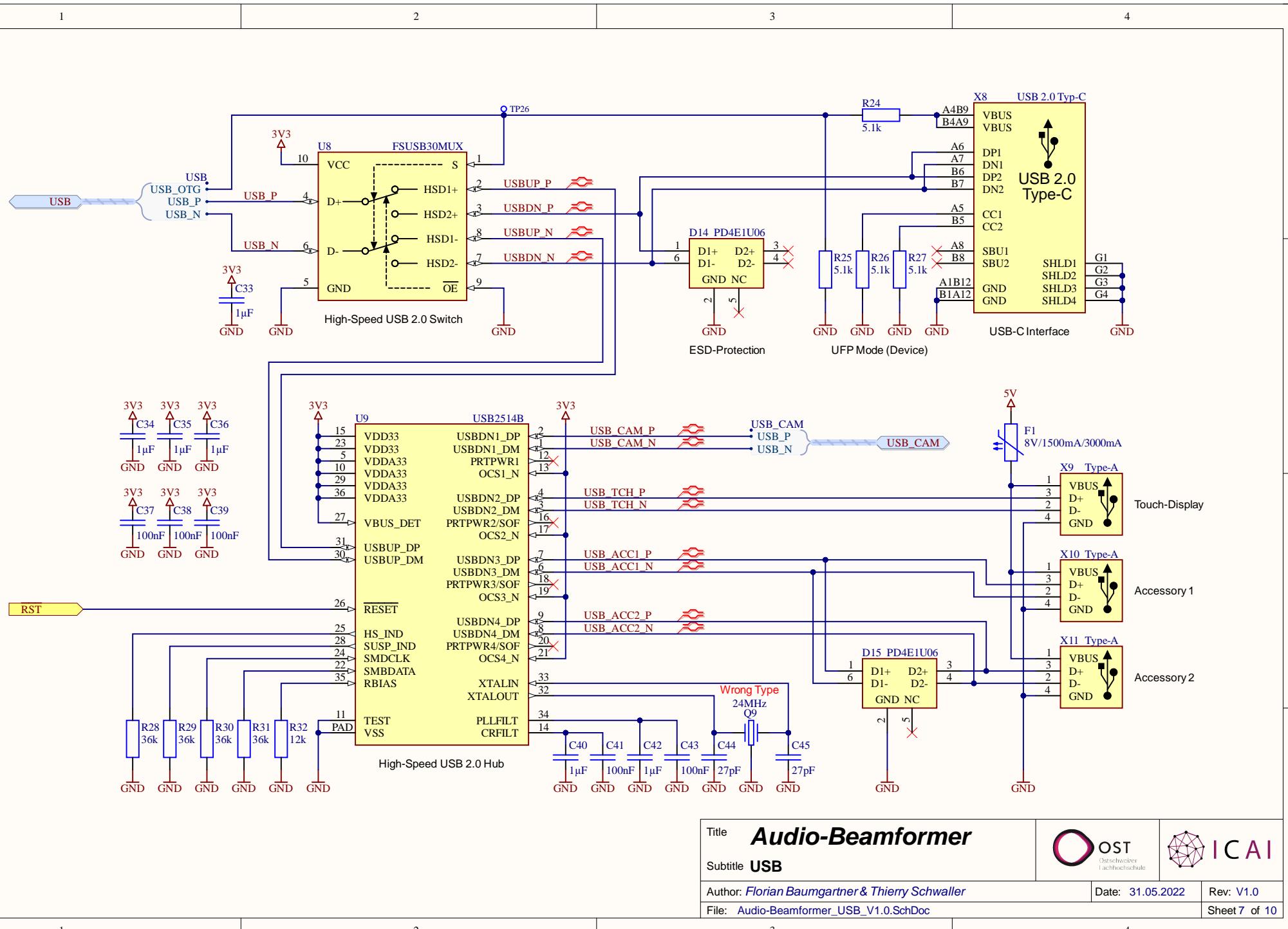


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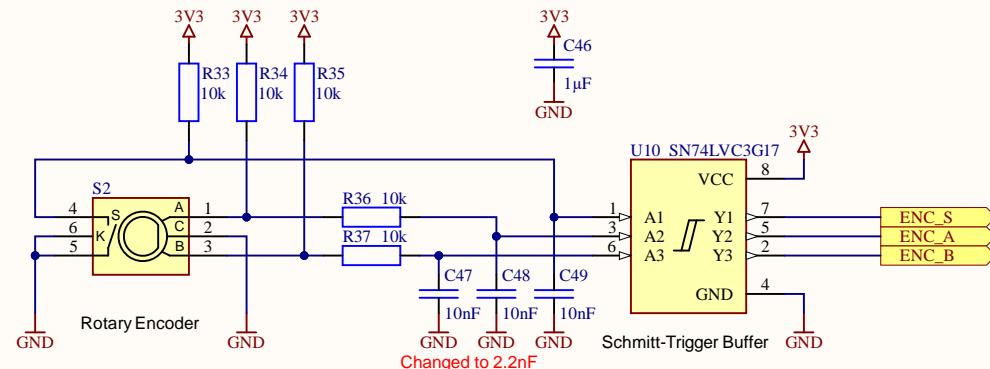
Rev: *V1.0*

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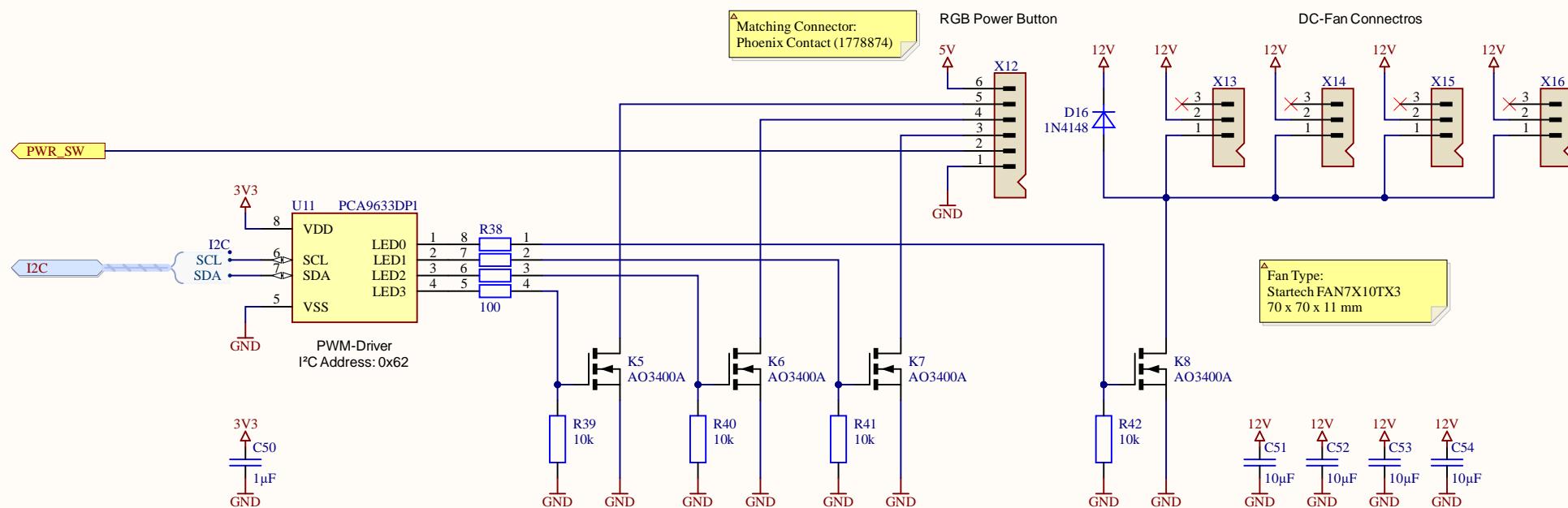




A



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C

Title

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Subtitle HMI

Author: Florian Baumgartner & Thierry Schwaller

File: Audio-Beamformer_HMI_V1.0.SchDoc

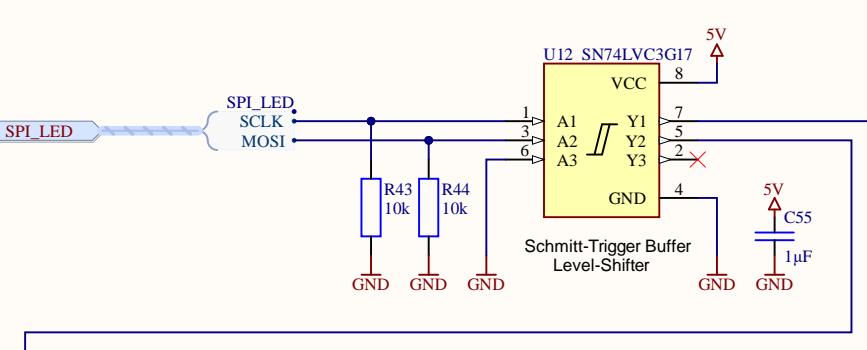


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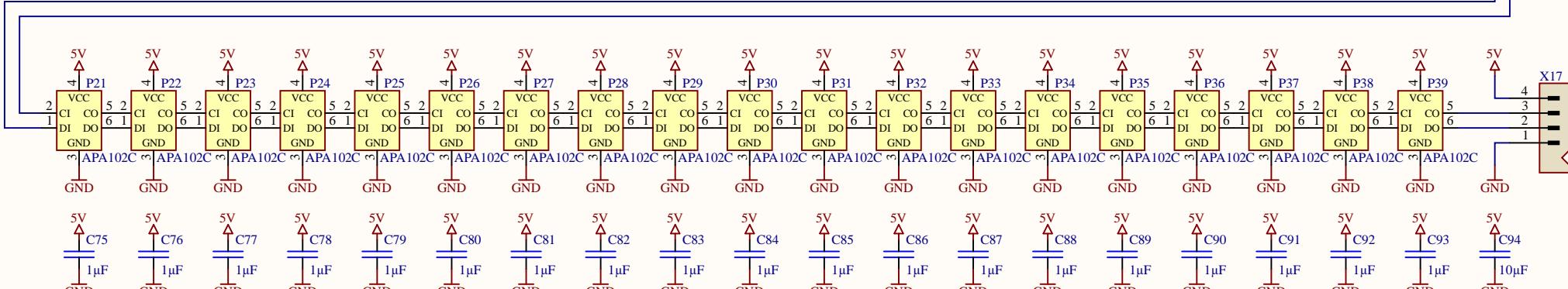
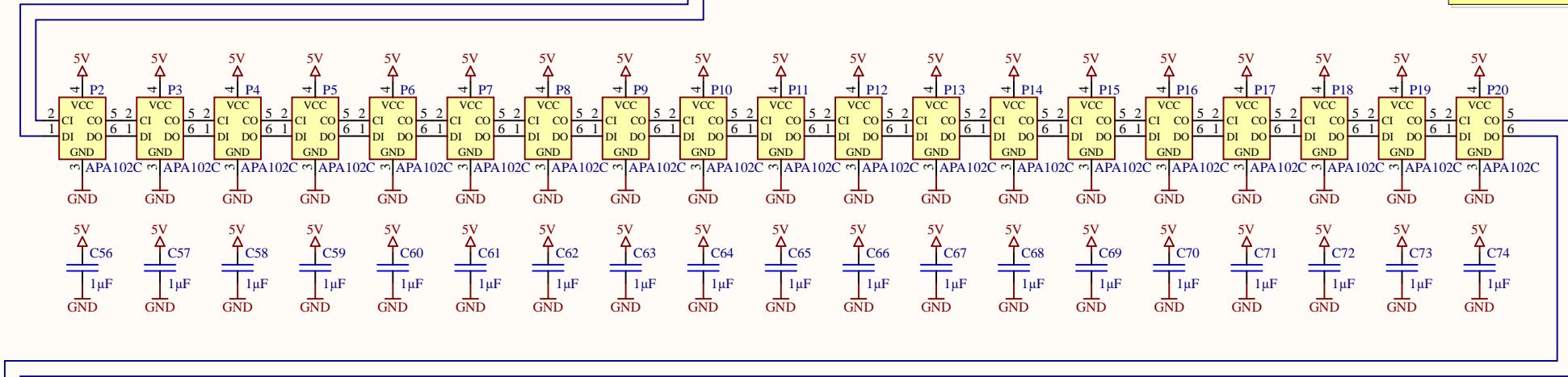
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LED Ring:
Sparkfun (COM-14967)
APA102C (20 LEDs, 25.4 mm)

Matching Connector:
Phoenix Contact (1778858)



Audio-Beamformer

LEDs

Author: Florian Baumgartner & Thierry Schwaller

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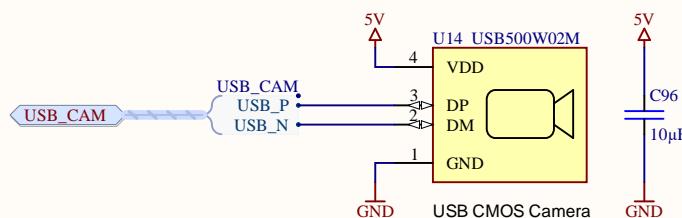
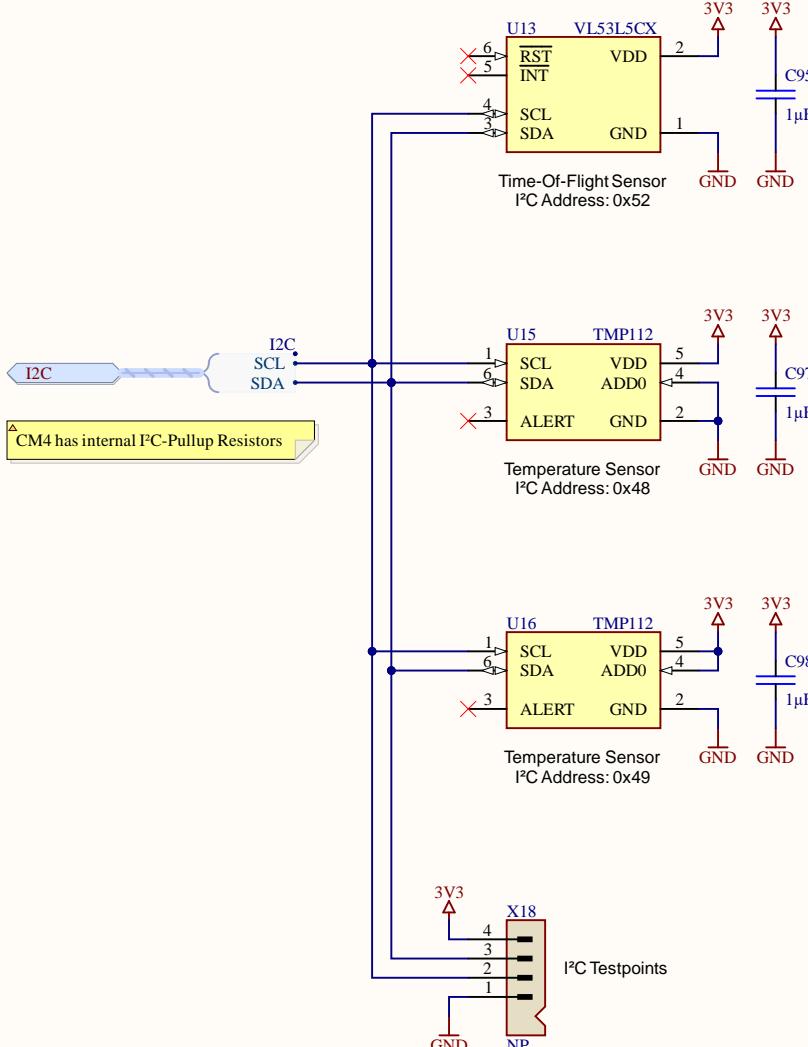
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A



B

A

C

B

D

C

D

Title

Audio-Beamformer

Subtitle Sensors

Author: Florian Baumgartner & Thierry Schwaller

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