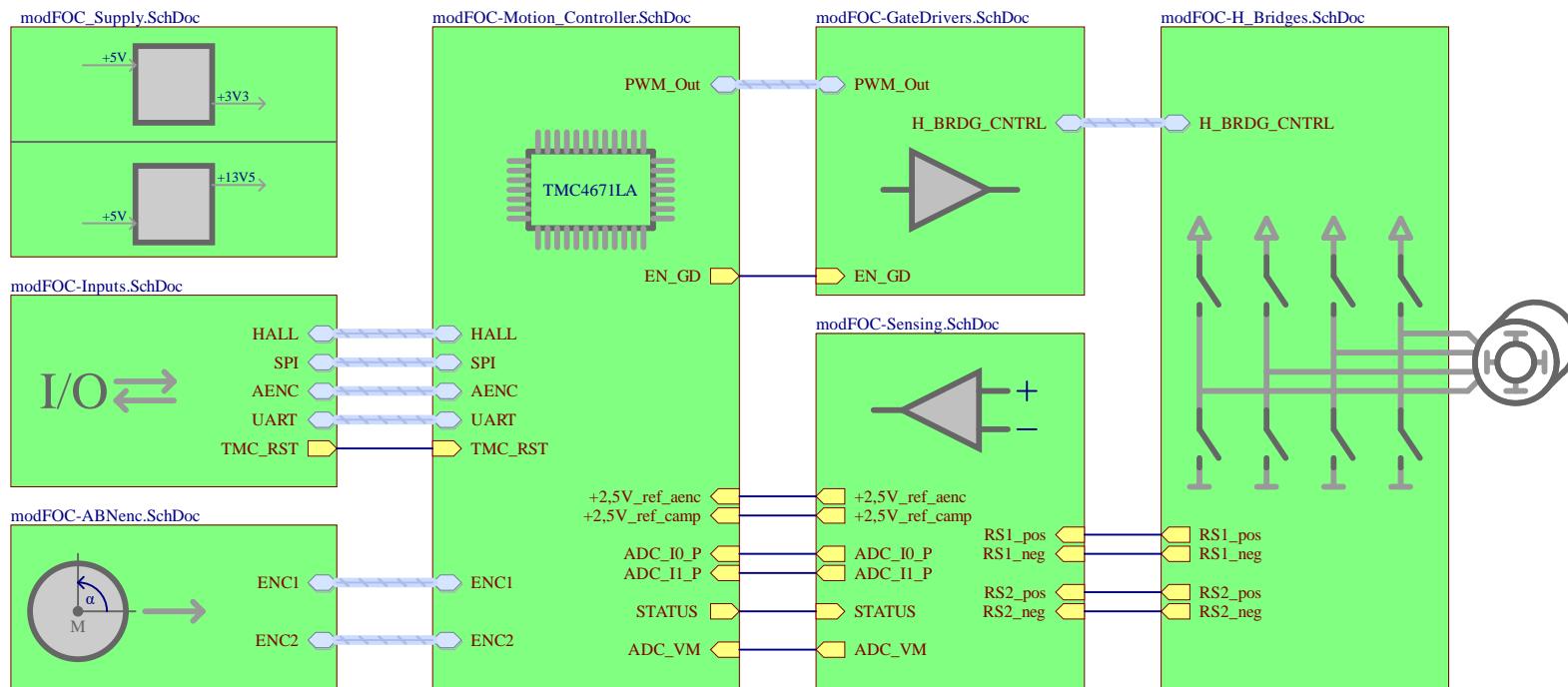


A



B

C

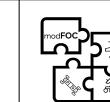
D

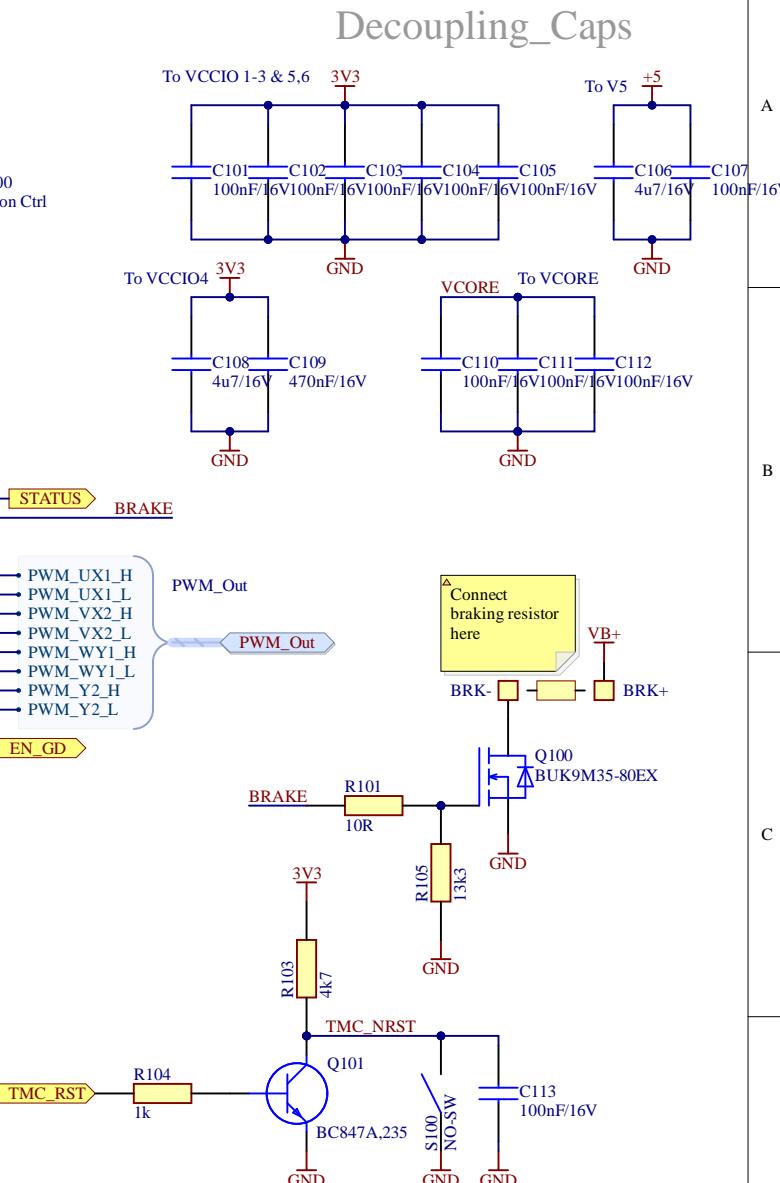
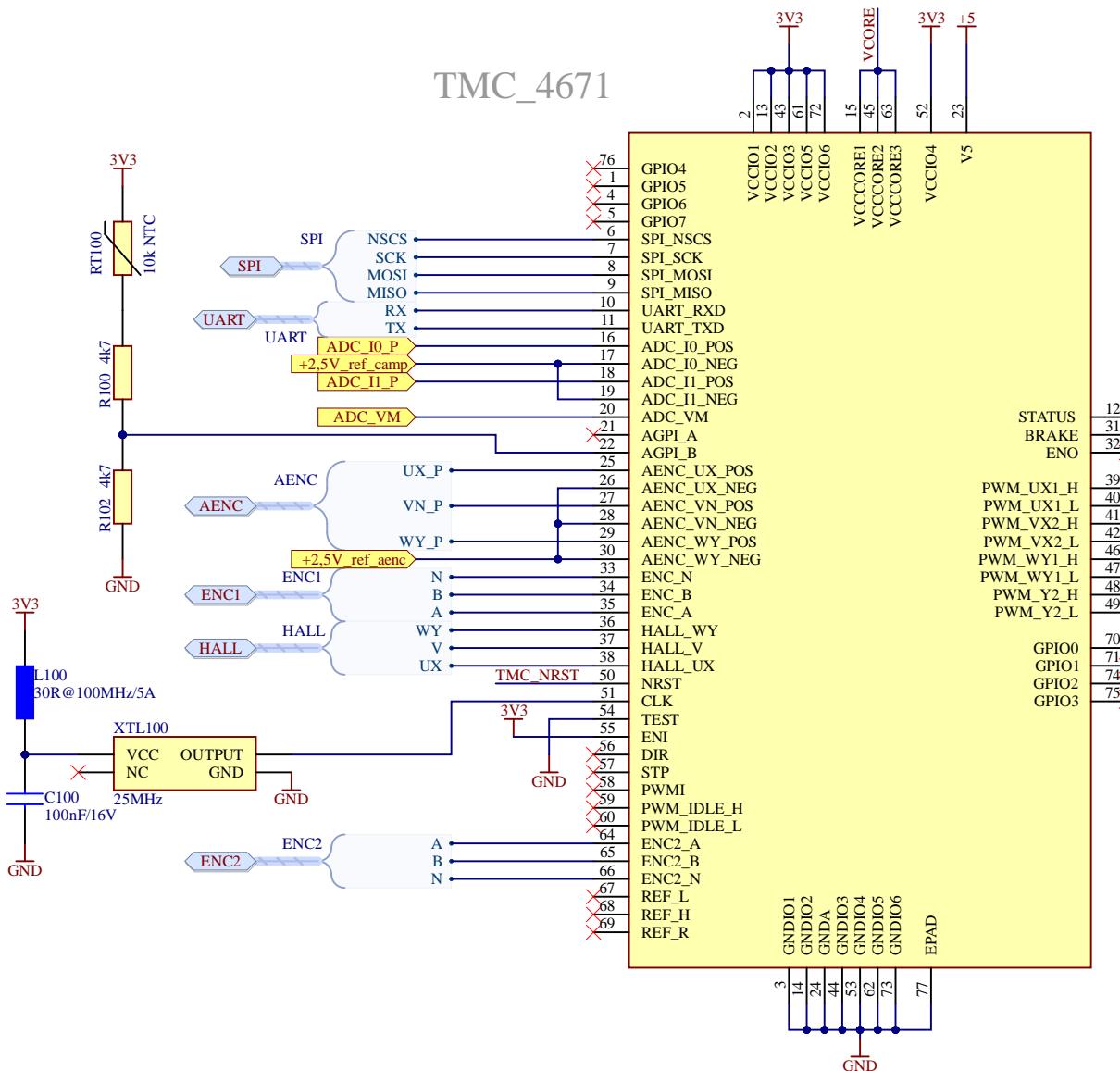
A

B

C

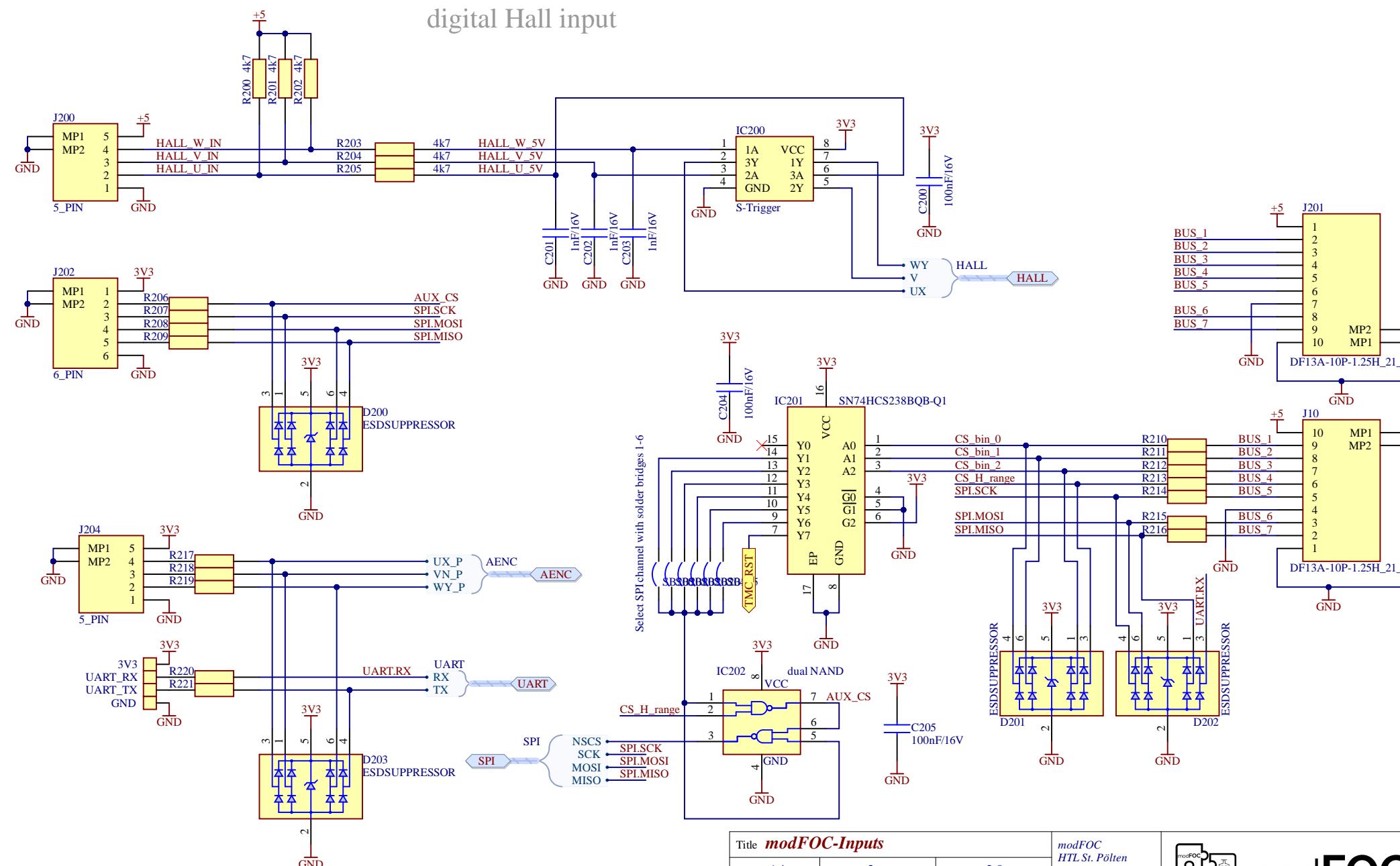
D





Title	<b>modFOC-Motion_Controller</b>	
Size:	A4	Number: 1
Date:	17.03.2022	Time: 21:50:11
File:	modFOC-Motion_Controller.SchDoc	

# digital Hall input



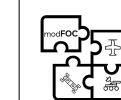
Title **modFOC-Inputs**

Size: A4 Number: 2 Revision: 2.0

Date: 17.03.2022 Time: 21:50:12 Sheet 2 of 7

File: modFOC-Inputs.SchDoc

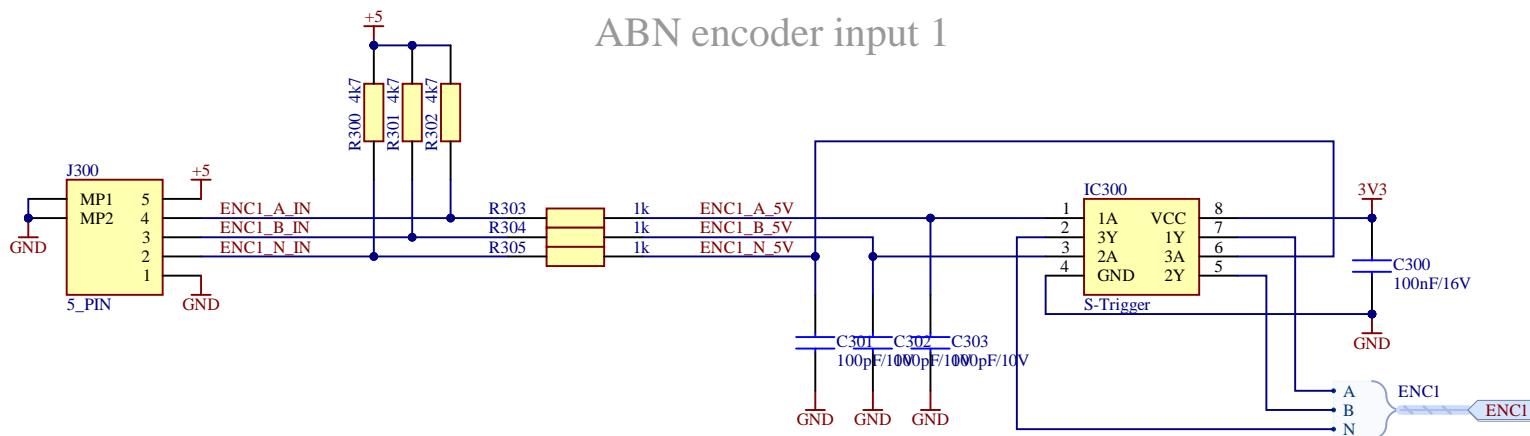
modFOC  
HTL St. Pölten  
Mathias Giller



**modFOC**

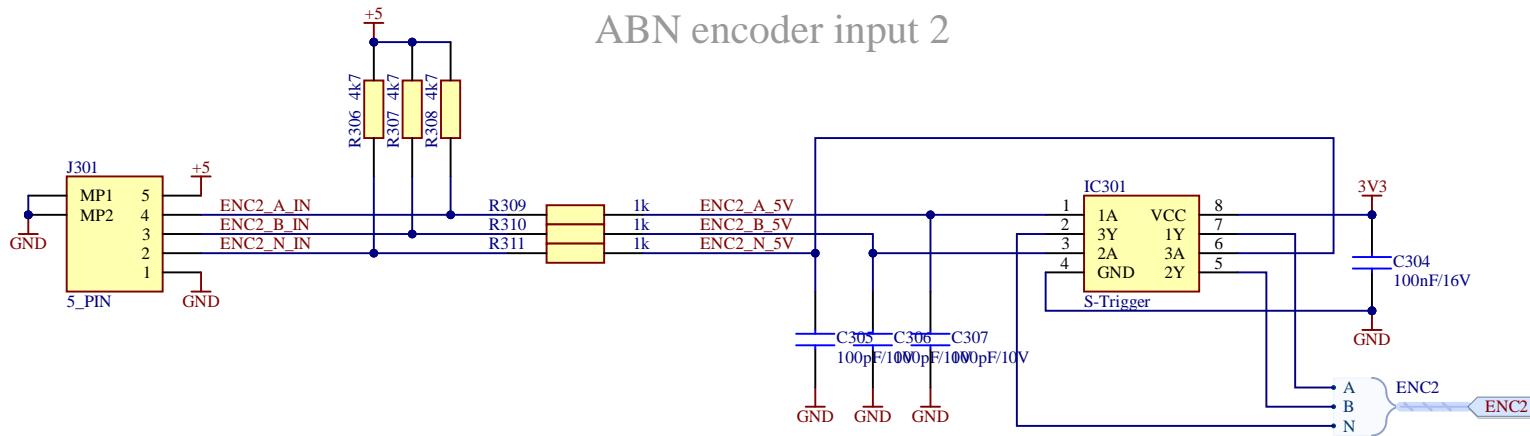
A

## ABN encoder input 1



B

## ABN encoder input 2



C

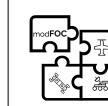
D

Title ***modFOC-ABNenc***

Size: A4 Number:3 Revision:2.0

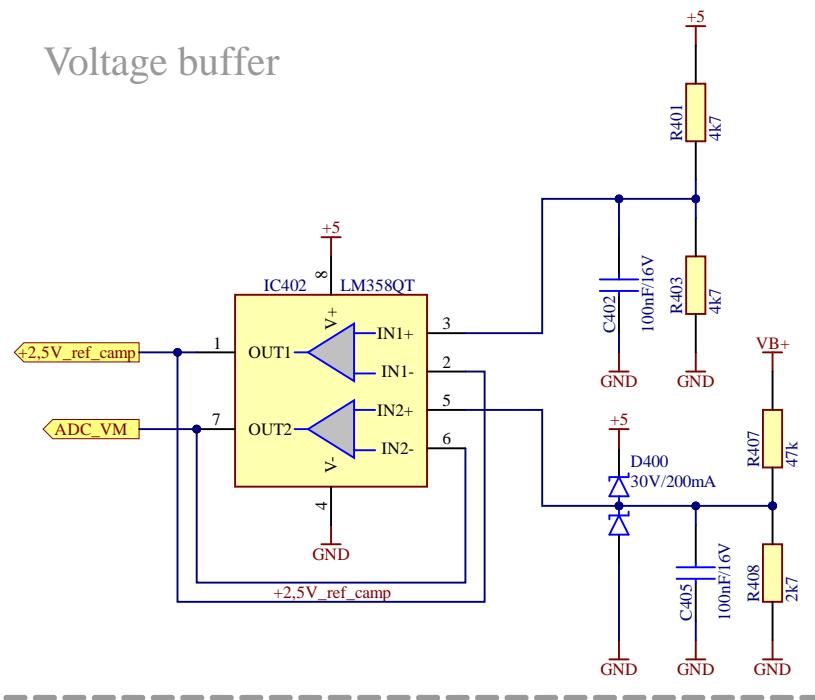
Date: 17.03.2022 Time: 21:50:12 Sheet 3 of 7

File: modFOC-ABNenc.SchDoc

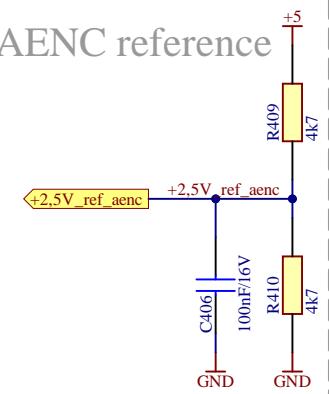
modFOC  
HTL St. Pölten  
Mathias Giller**modFOC**

A

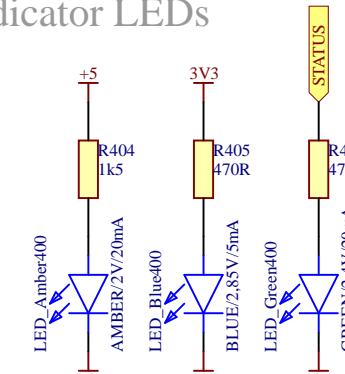
## Voltage buffer



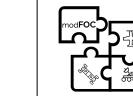
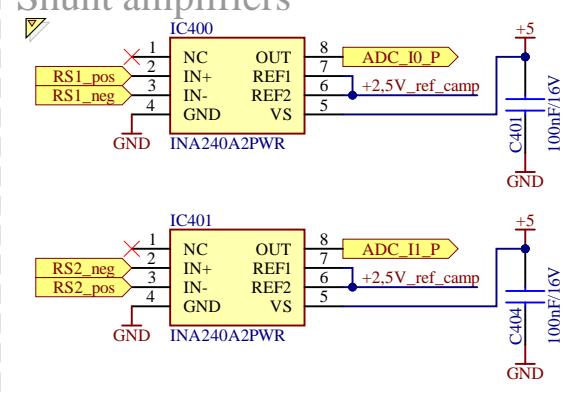
## AENC reference



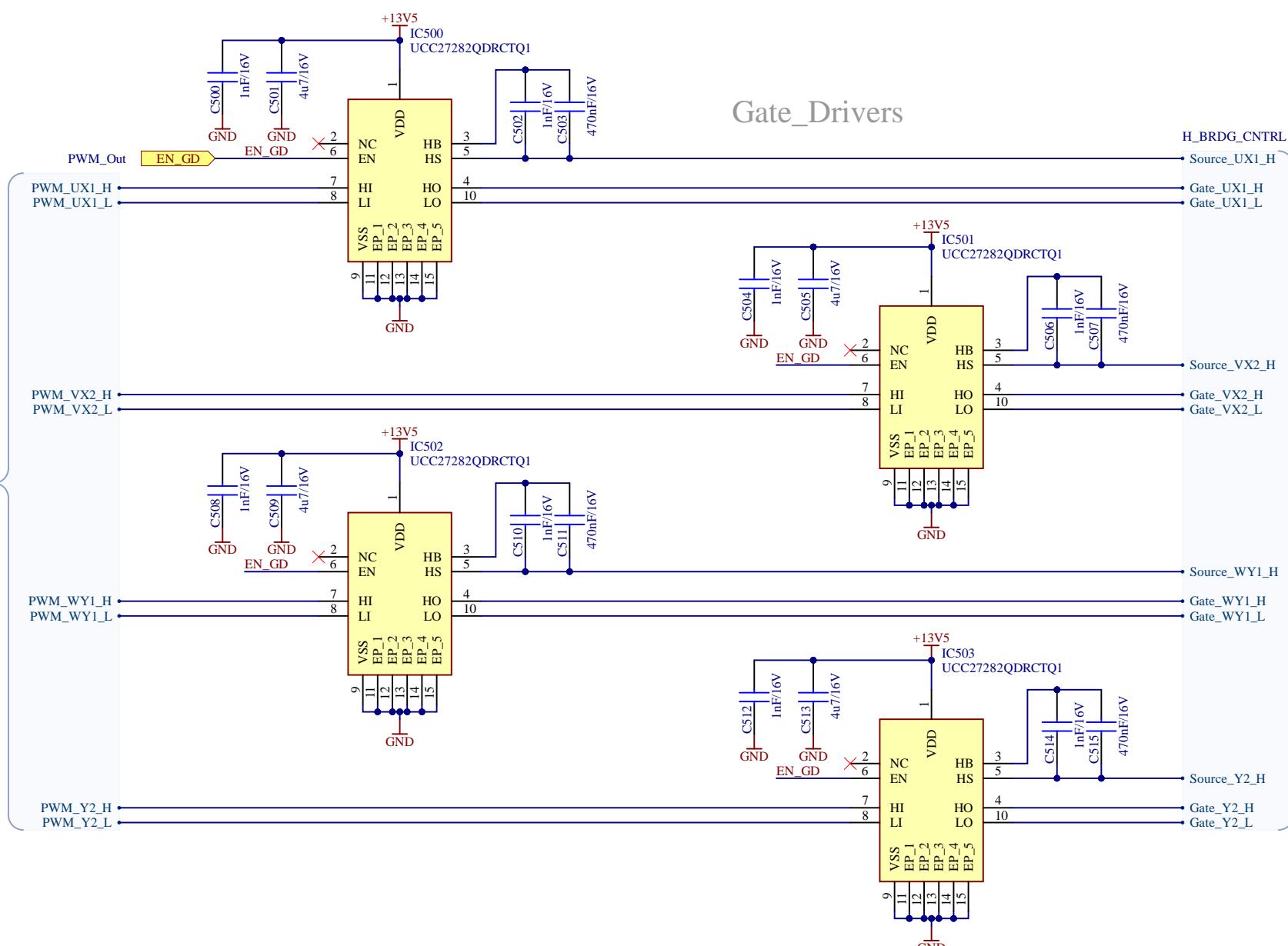
## Indicator LEDs



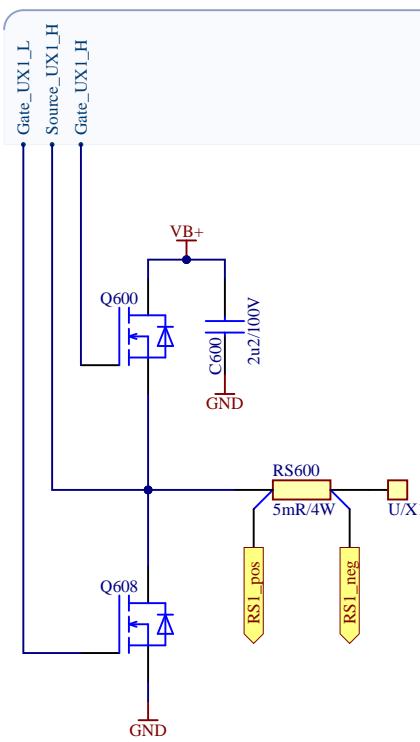
## Shunt amplifiers



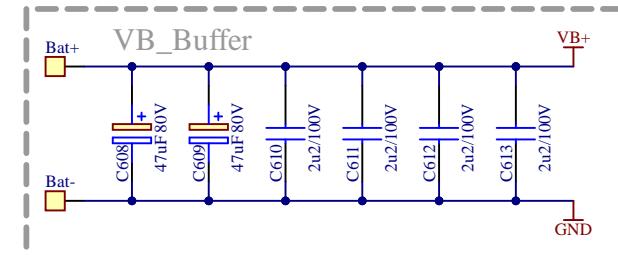
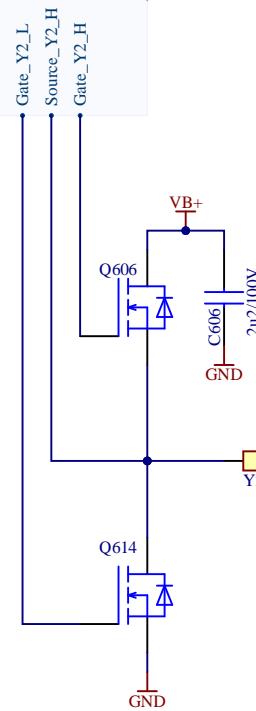
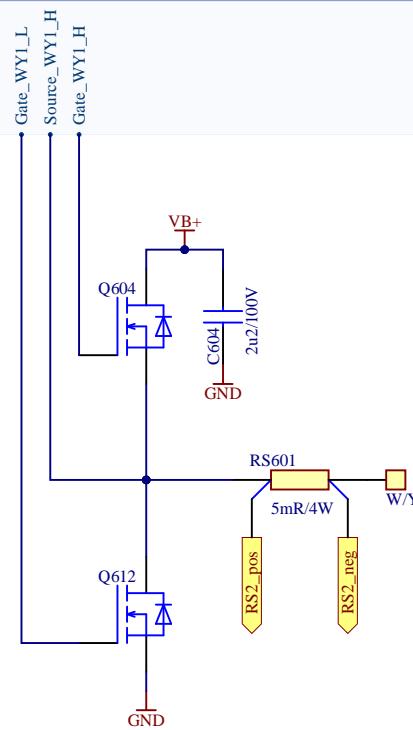
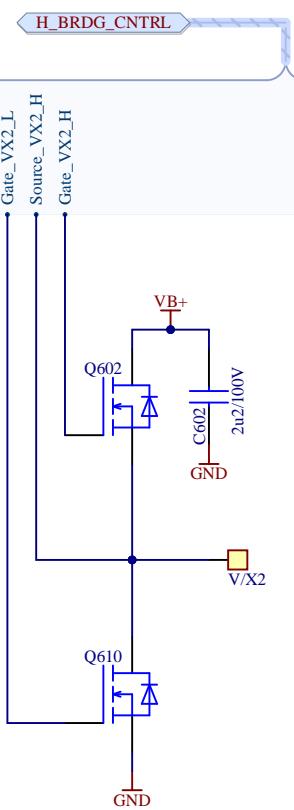
## Gate\_Drivers



A

**H\_BRDG\_CNTRL**

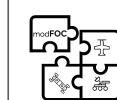
B

Title **modFOC-H-Bridges**

Size: A4 Number:6 Revision:2.0

Date: 17.03.2022 Time: 21:50:14 Sheet 6 of 7

File: modFOC-H\_Bridges.SchDoc

modFOC  
HTL St. Pölten  
Mathias Giller**modFOC**

A

A

B

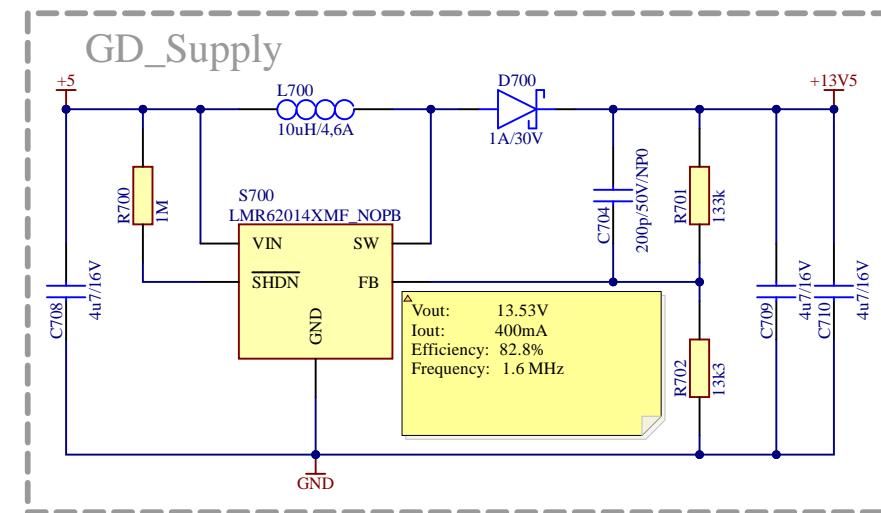
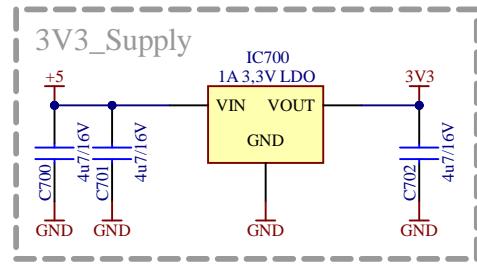
B

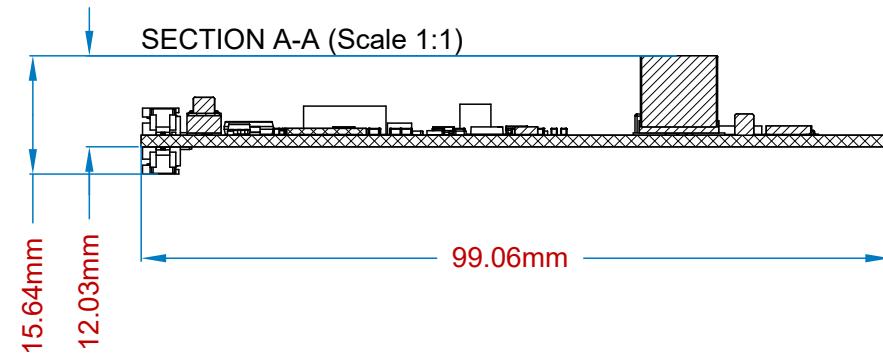
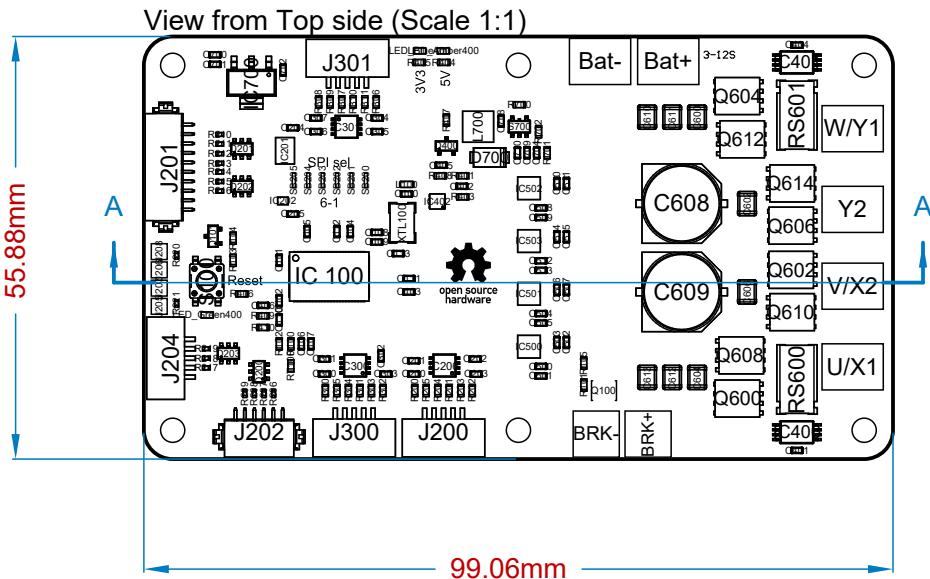
C

C

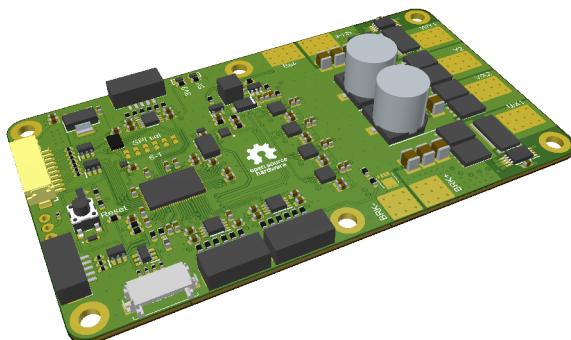
D

D





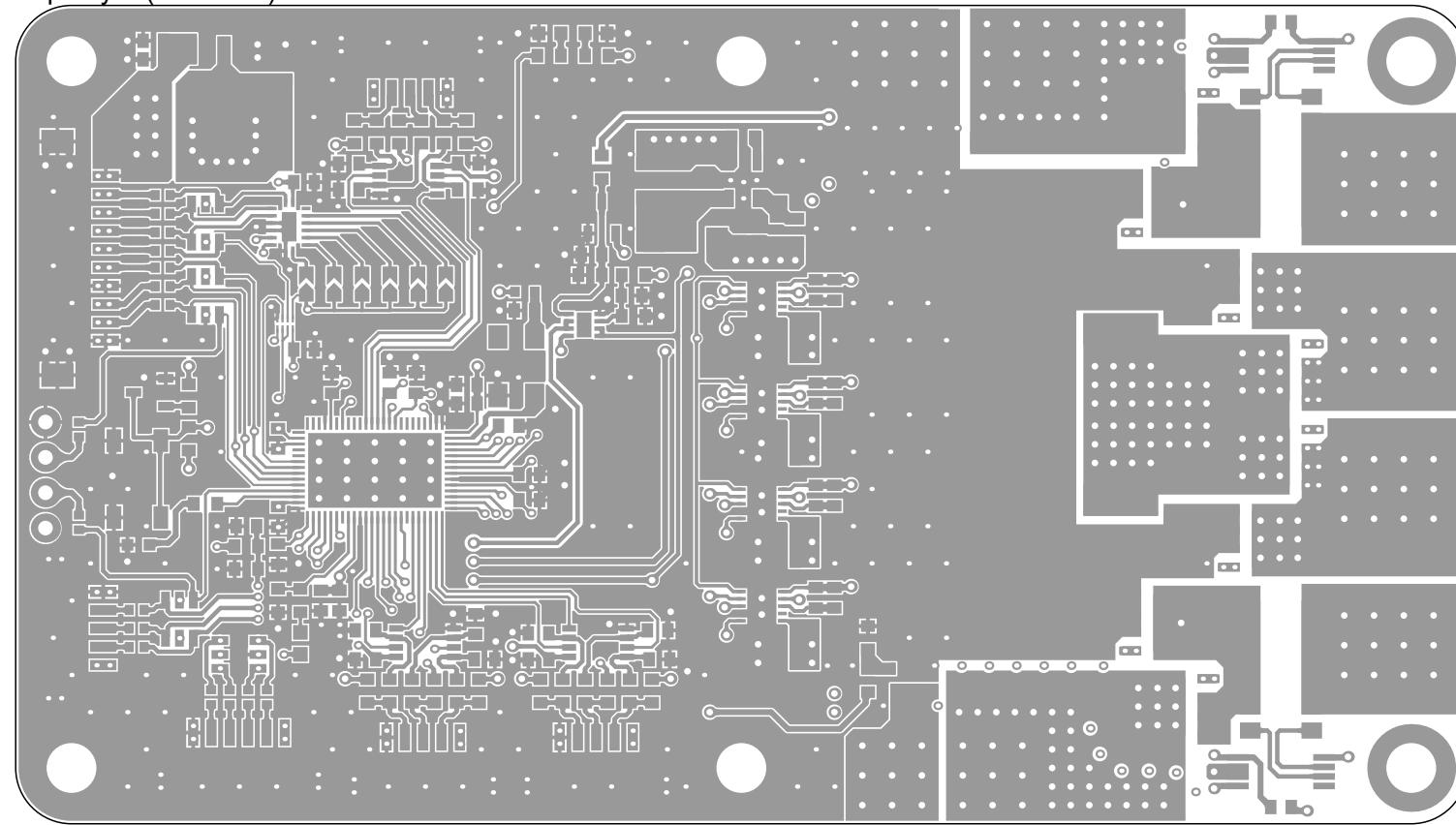
Realistic View



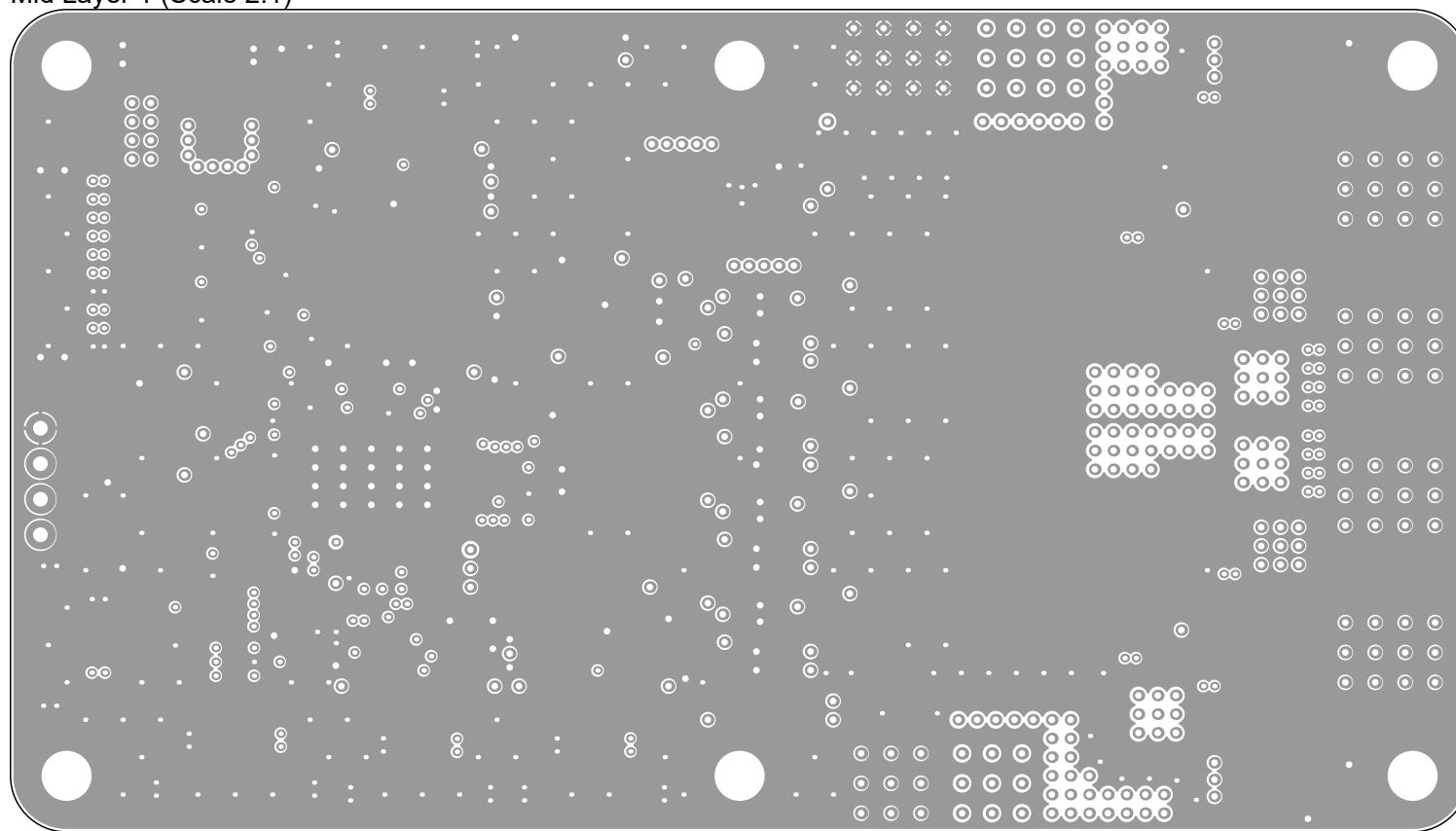
Layer Stack Legend

Material	Layer	Thickness	Dielectric Material	Type	Gerber
Surface Material	Top Overlay	0.01mm		Legend	GTO
Copper	Top Solder	0.01mm	Solder Resist	Solder Mask	GTS
<b>Copper</b>	<b>Top Layer</b>	<b>0.04mm</b>		<b>Signal</b>	<b>GTL</b>
Prepreg		0.18mm	7628	Dielectric	
Copper	Mid Layer 1	0.02mm		Signal	G1
Core		1.06mm	FR-4	Dielectric	
Copper	Mid Layer 2	0.02mm		Signal	G2
Prepreg		0.18mm	7628	Dielectric	
<b>Copper</b>	<b>Bottom Layer</b>	<b>0.04mm</b>		<b>Signal</b>	<b>GBL</b>
Surface Material	Bottom Solder	0.01mm	Solder Resist	Solder Mask	GBS
	Bottom Overlay			Legend	GBO
Total thickness: 1.56mm					

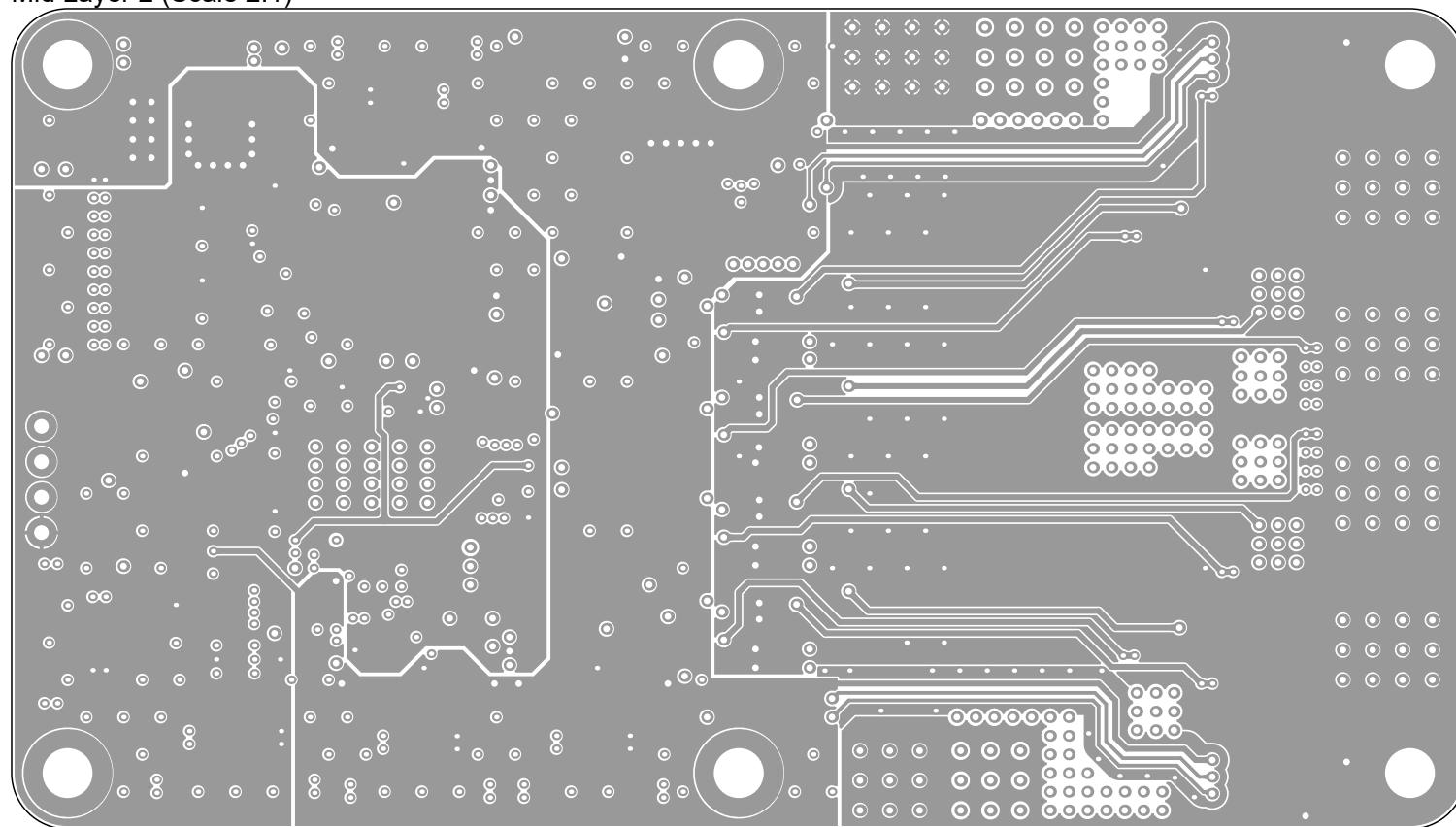
Top Layer (Scale 2:1)



Mid Layer 1 (Scale 2:1)



Mid Layer 2 (Scale 2:1)



Bottom Layer (Scale 2:1)

