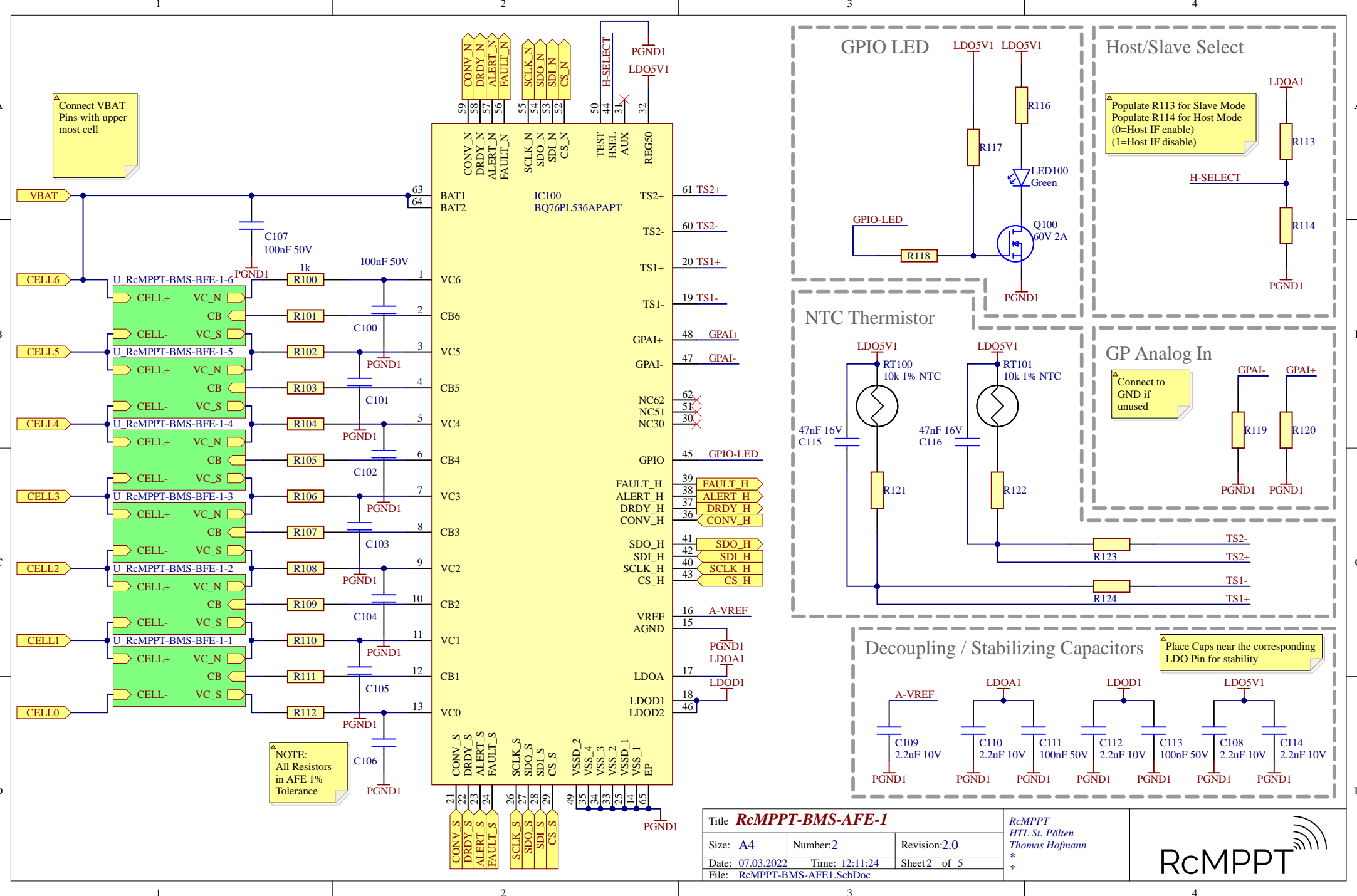
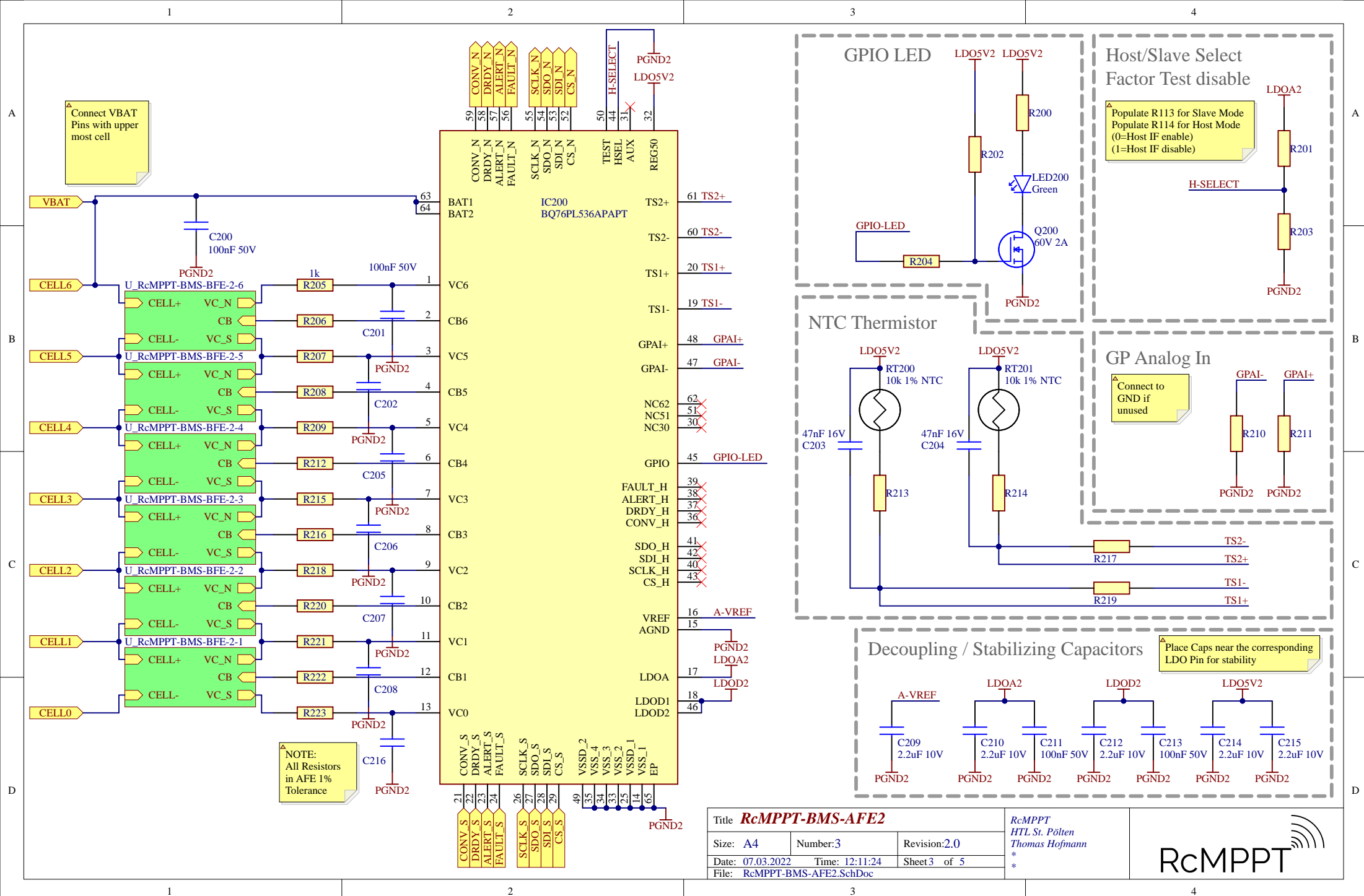
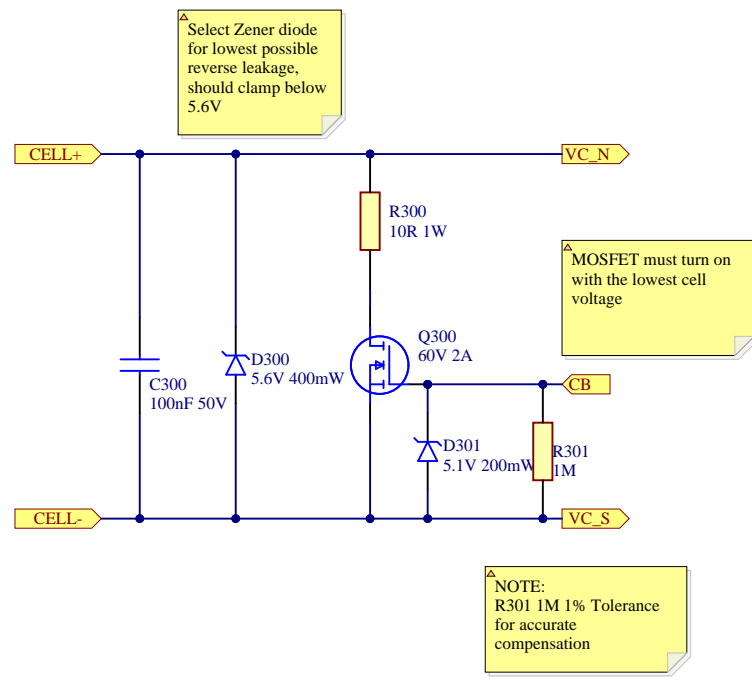
Title **RcMPPT-Top BMS**Size: **A4**Number: **0**Revision: **2.0**Date: **07.03.2022**Time: **12:11:23**Sheet **1** of **5**File: **RcMPPT-Top.SchDoc**

\*  
HTL St. Pölten  
Thomas Hofmann  
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RcMPPT





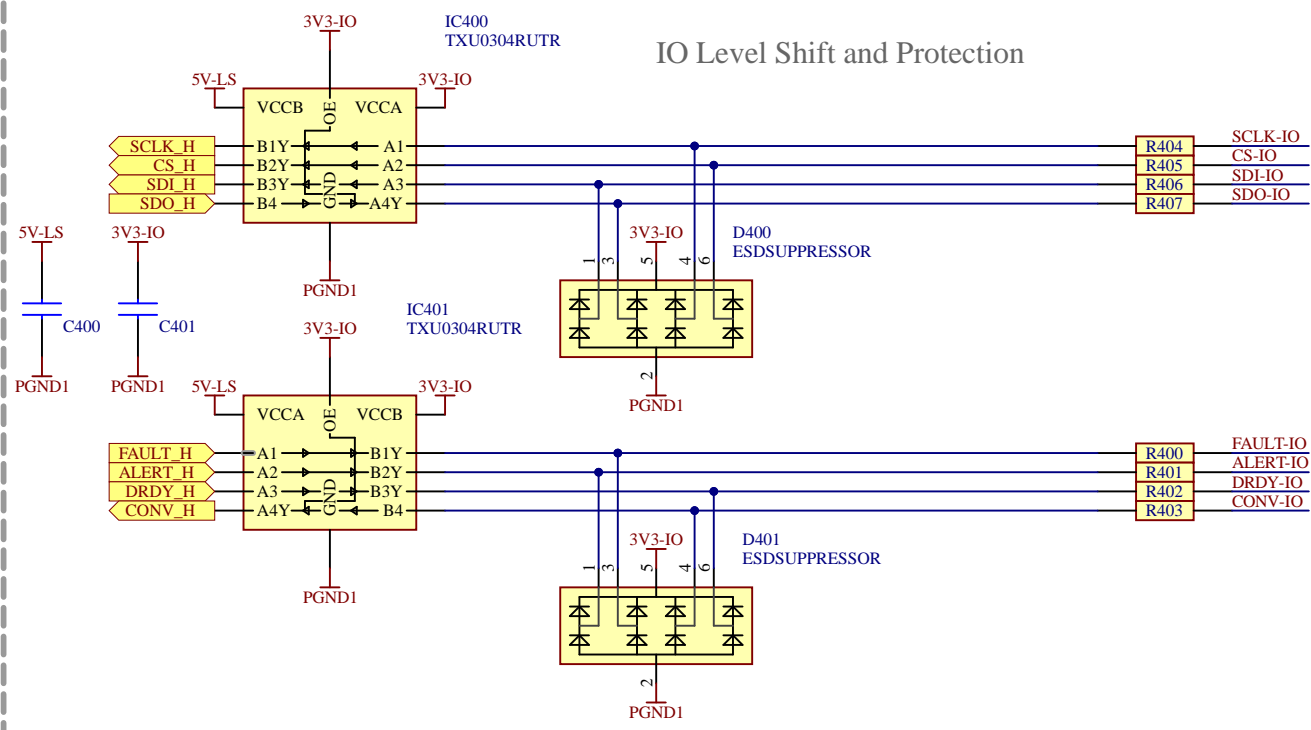


Title <b>RcMPPT-BMS-BFE</b>		
Size: <b>A4</b>	Number: <b>4</b>	Revision: <b>2.0</b>
Date: <b>07.03.2022</b>	Time: <b>12:11:24</b>	Sheet <b>4</b> of <b>5</b>
File: <b>RcMPPT-BMS-BFE.SchDoc</b>		

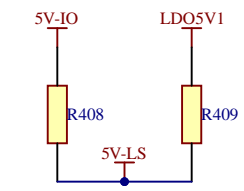
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Thomas Hofmann  
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RcMPPT

IO Level Shift and Protection



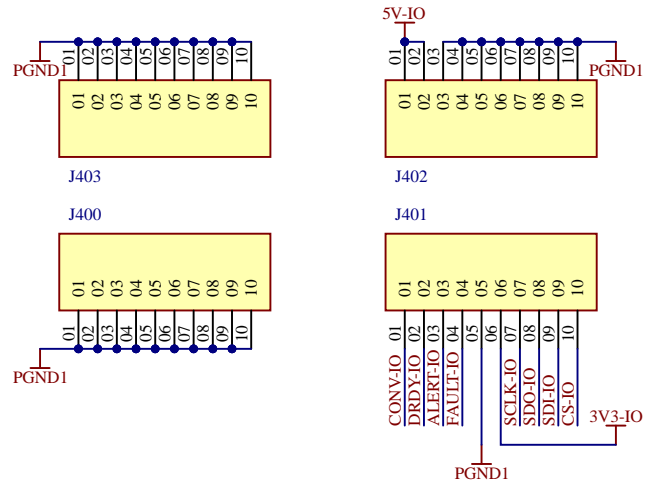
Level Shifter IO Voltage selection



Choose between on-Board 5V LDO and external 5V supply.

External 5V supply might be necessary because of the internal LDO shutting down in SLEEP Mode -> no wakeup

IO Connector Population

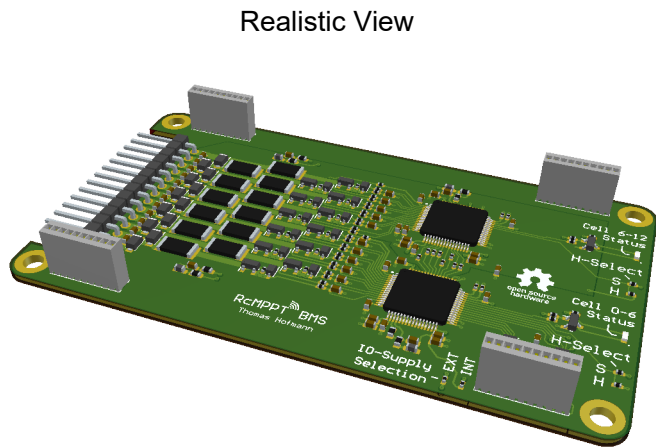
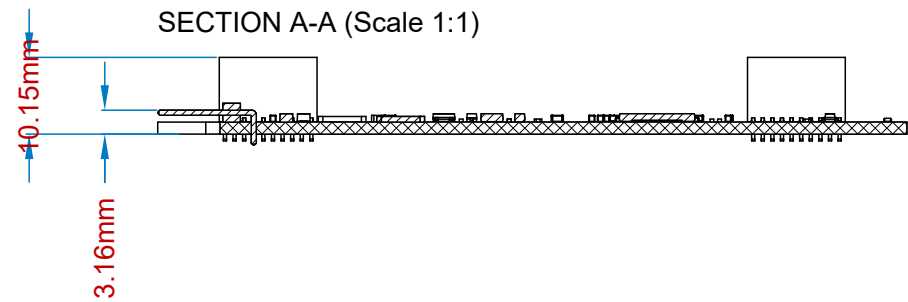
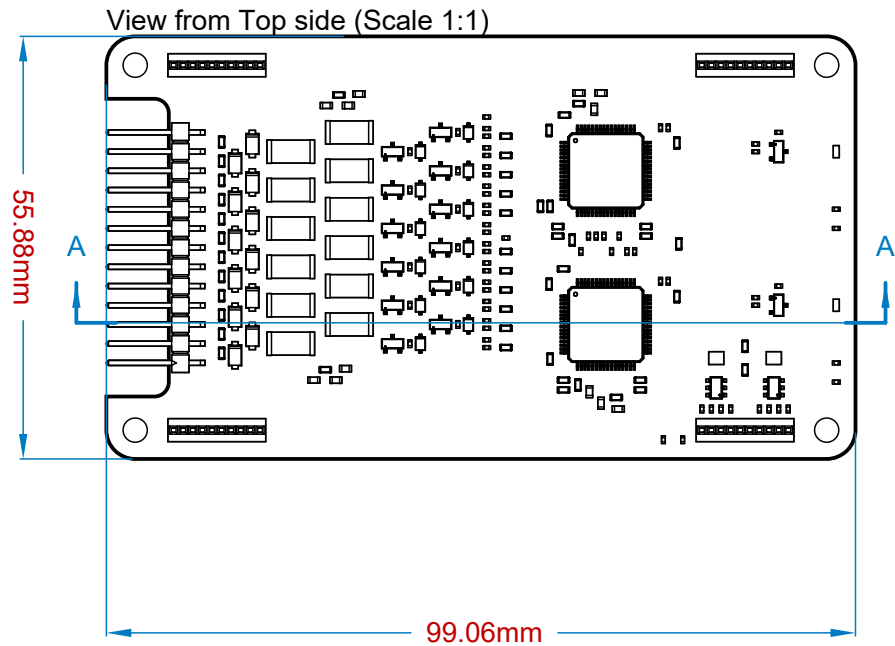


May be modified due to changes in layout

Title <b>RcMPPT-BMS-IO</b>		
Size: <b>A4</b>	Number: <b>5</b>	Revision: <b>2.0</b>
Date: <b>07.03.2022</b>	Time: <b>12:11:25</b>	Sheet <b>5</b> of <b>5</b>
File: <b>RcMPPT-IO.SchDoc</b>		

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Thomas Hofmann  
\*  
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Layer Stack Legend

Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Top Overlay			Legend	GTO
	Surface Material			Solder Mask	GTS
Copper	Top Layer	0.01mm	SM-001	Signal	GTL
Prepreg		0.21mm	PP-022	Dielectric	
Copper	Mid Layer 1	0.02mm		Signal	G1
Core		1.06mm	Core-040	Dielectric	
Copper	Mid Layer 2	0.02mm		Signal	G2
Prepreg		0.21mm	PP-022	Dielectric	
Copper	Bottom Layer	0.04mm		Signal	GBL
Surface Material	Bottom Solder	0.01mm	SM-001	Solder Mask	GBS
	Bottom Overlay			Legend	GBO
Total thickness: 1.61mm					

A

B

C

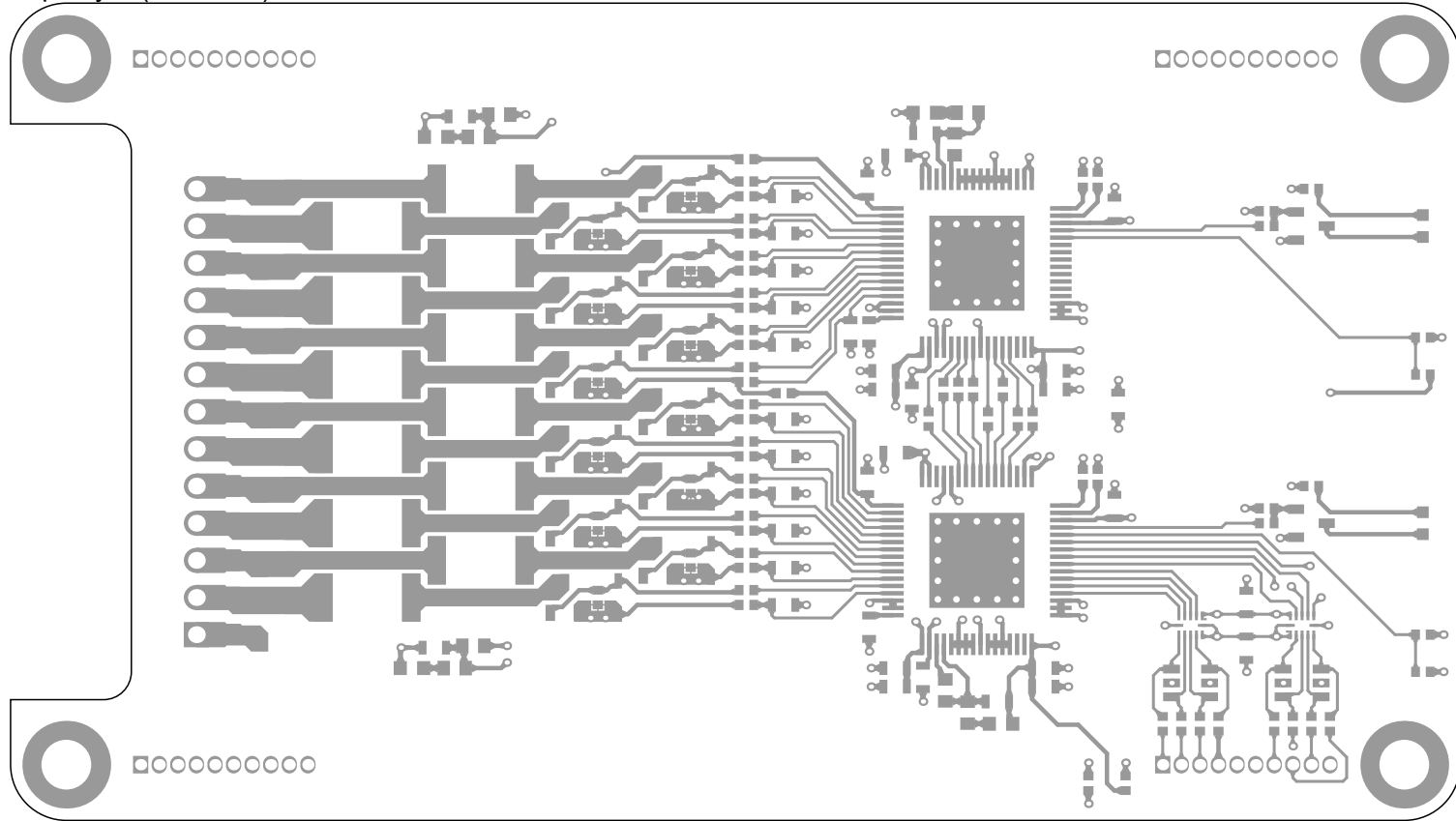
D

E

1

1

Top Layer (Scale 2:1)



2

3

4

A

B

C

D

E

A

B

C

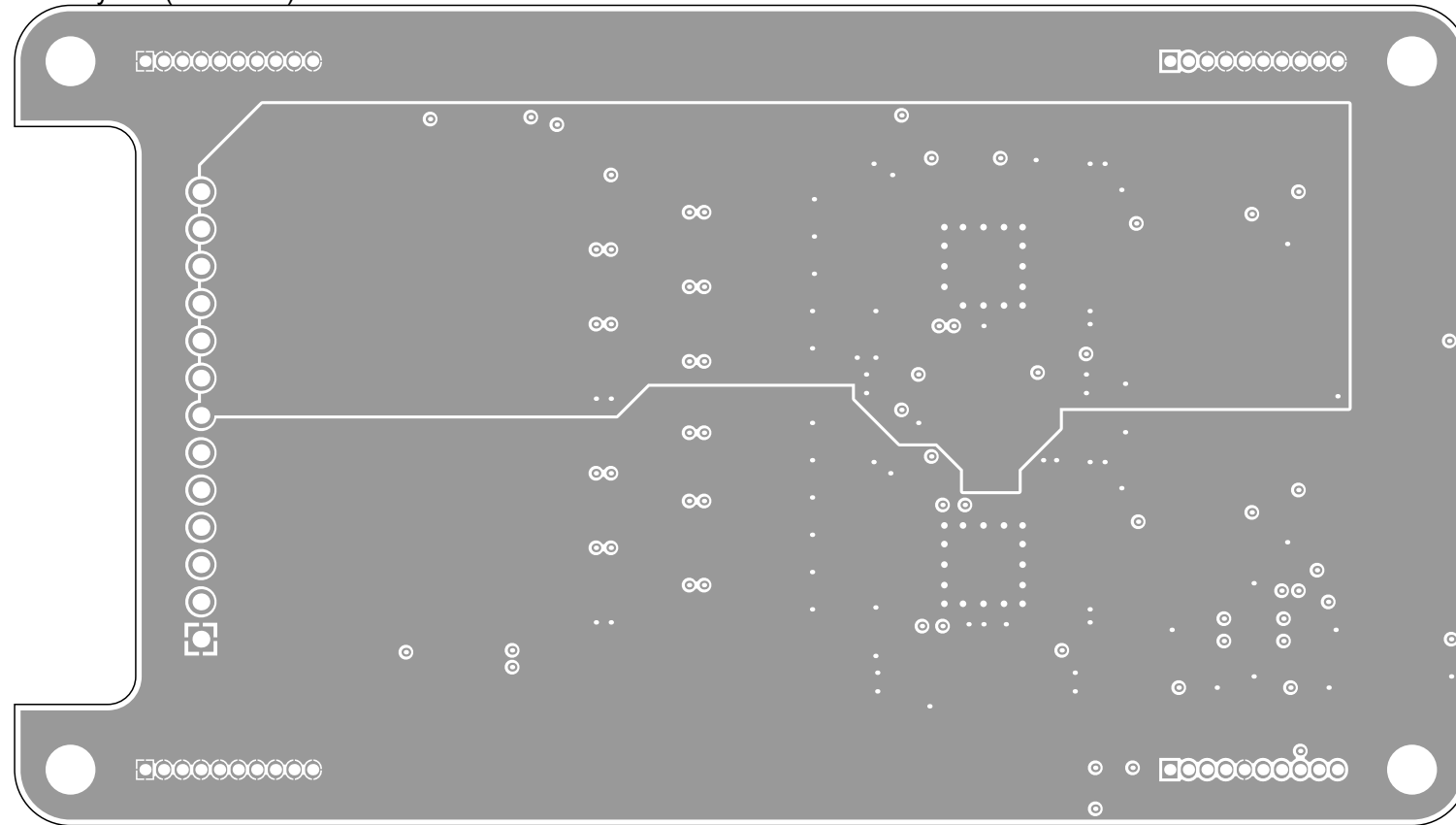
D

E

1

1

Mid Layer 1 (Scale 2:1)



2

2

3

3

4

4

A

B

C

D

E



A

B

C

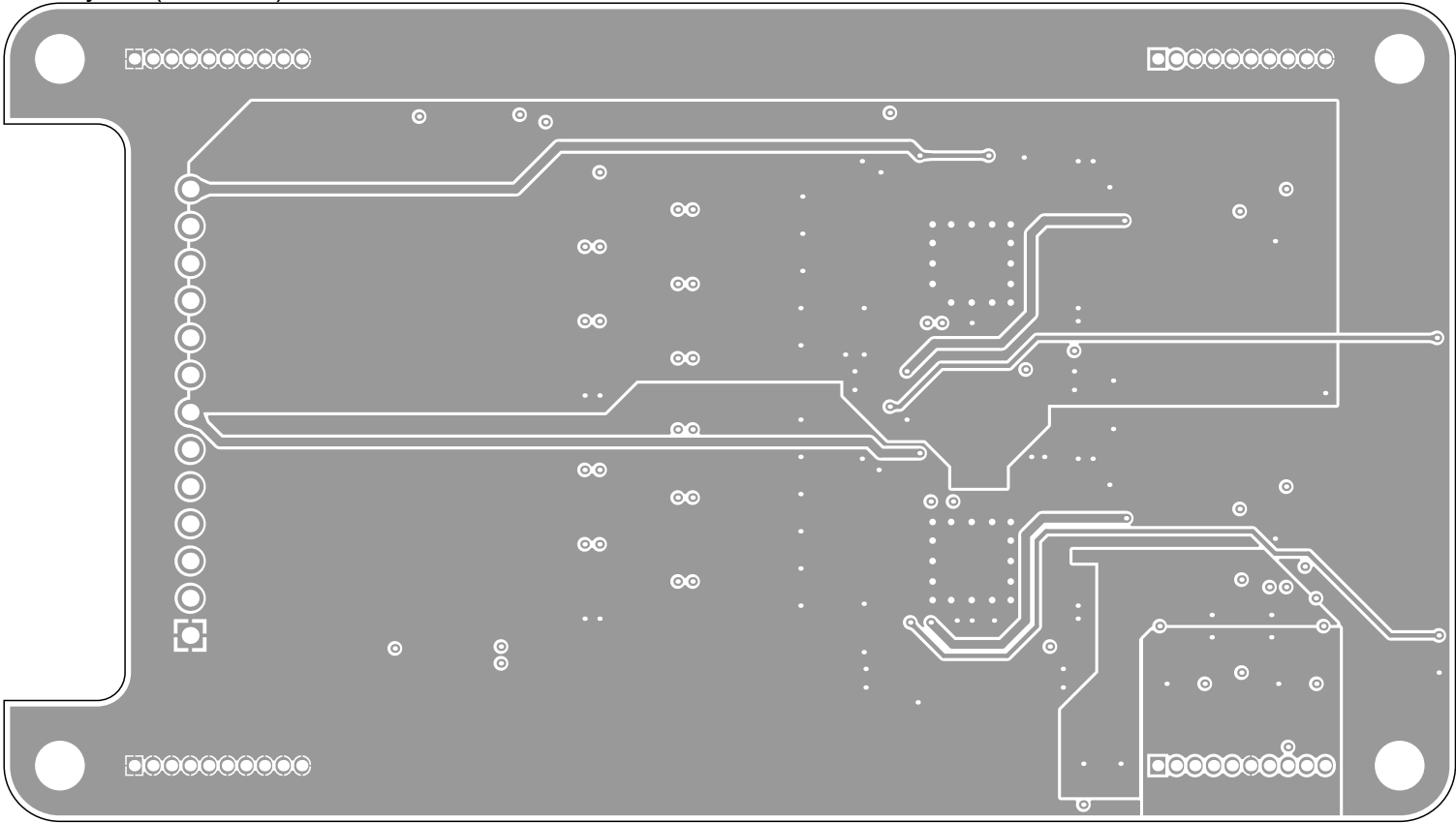
D

E

1

1

Mid Layer 2 (Scale 2:1)



2

2

3

3

4

4

A

B

C

D

E

A

B

C

D

E

1

1

Bottom Layer (Scale 2:1)

2

2

3

3

4

4

