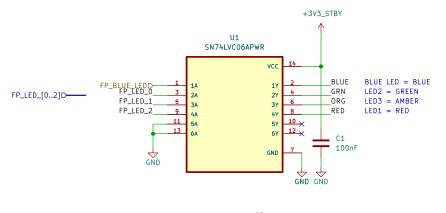
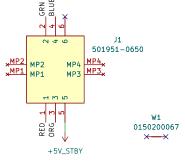
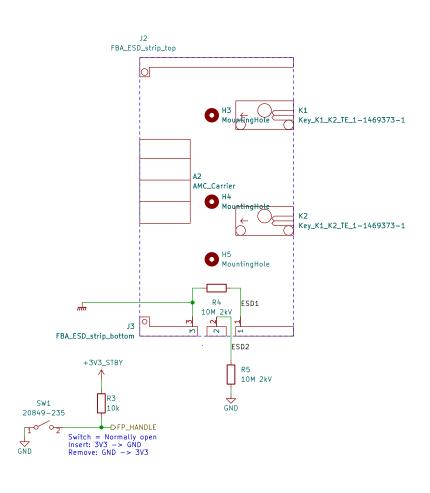


# Front Panel LEDs







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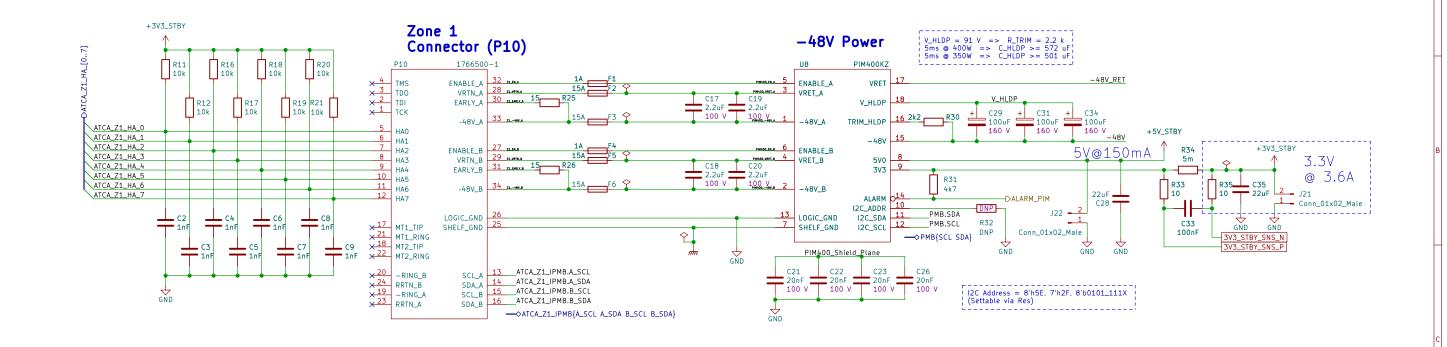
Luis Ardita
Carsten Schmerbeck
Karlsruhe Institute of Technology (KIT)

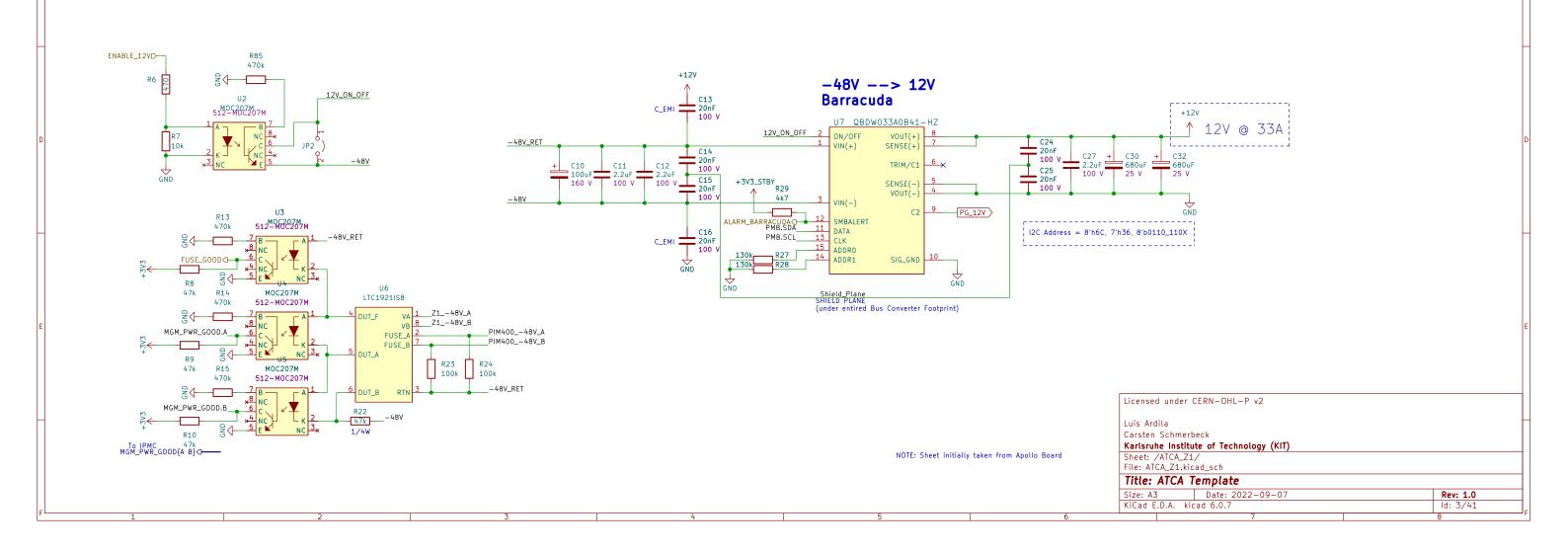
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File: mech.kicad\_sch

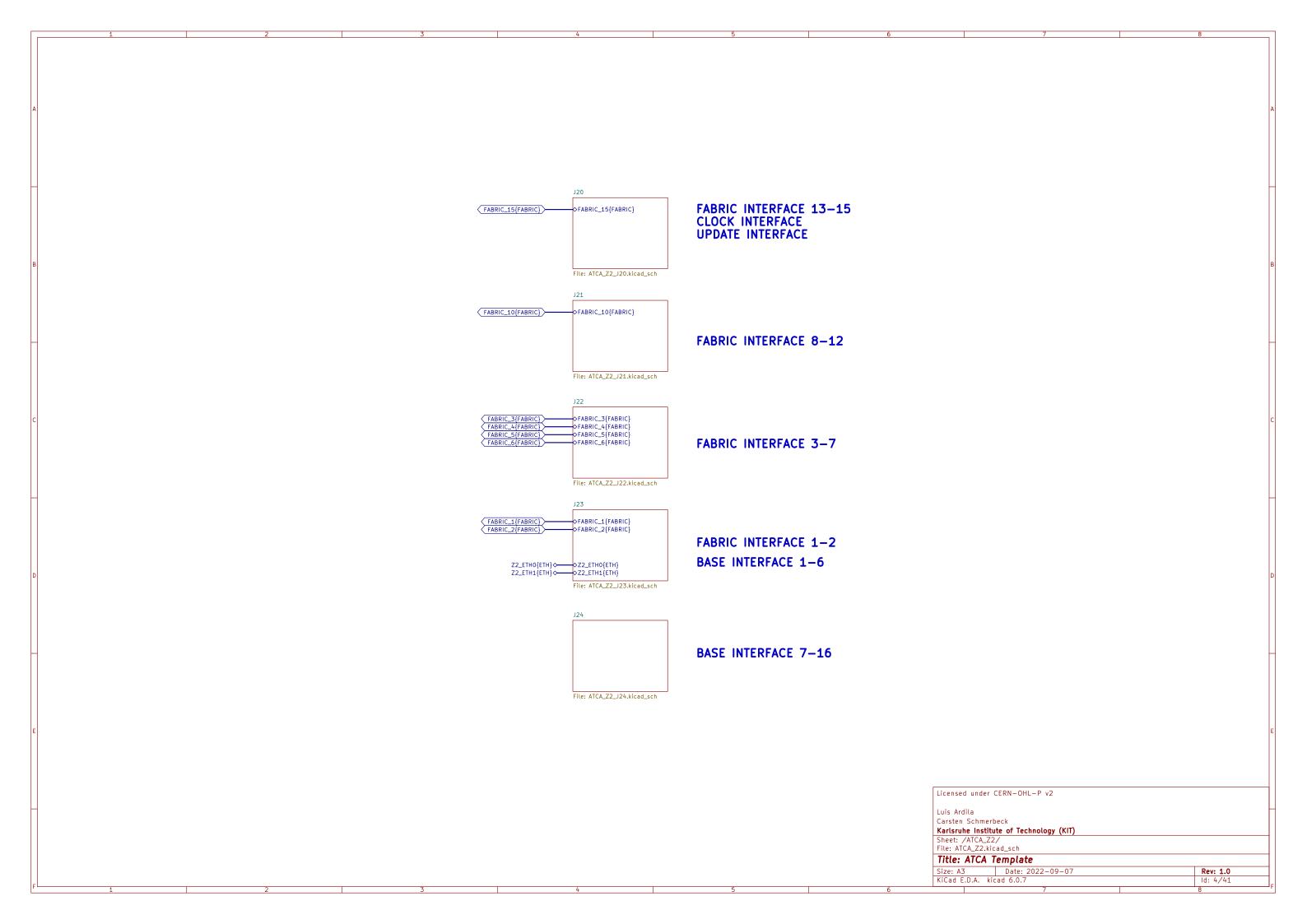
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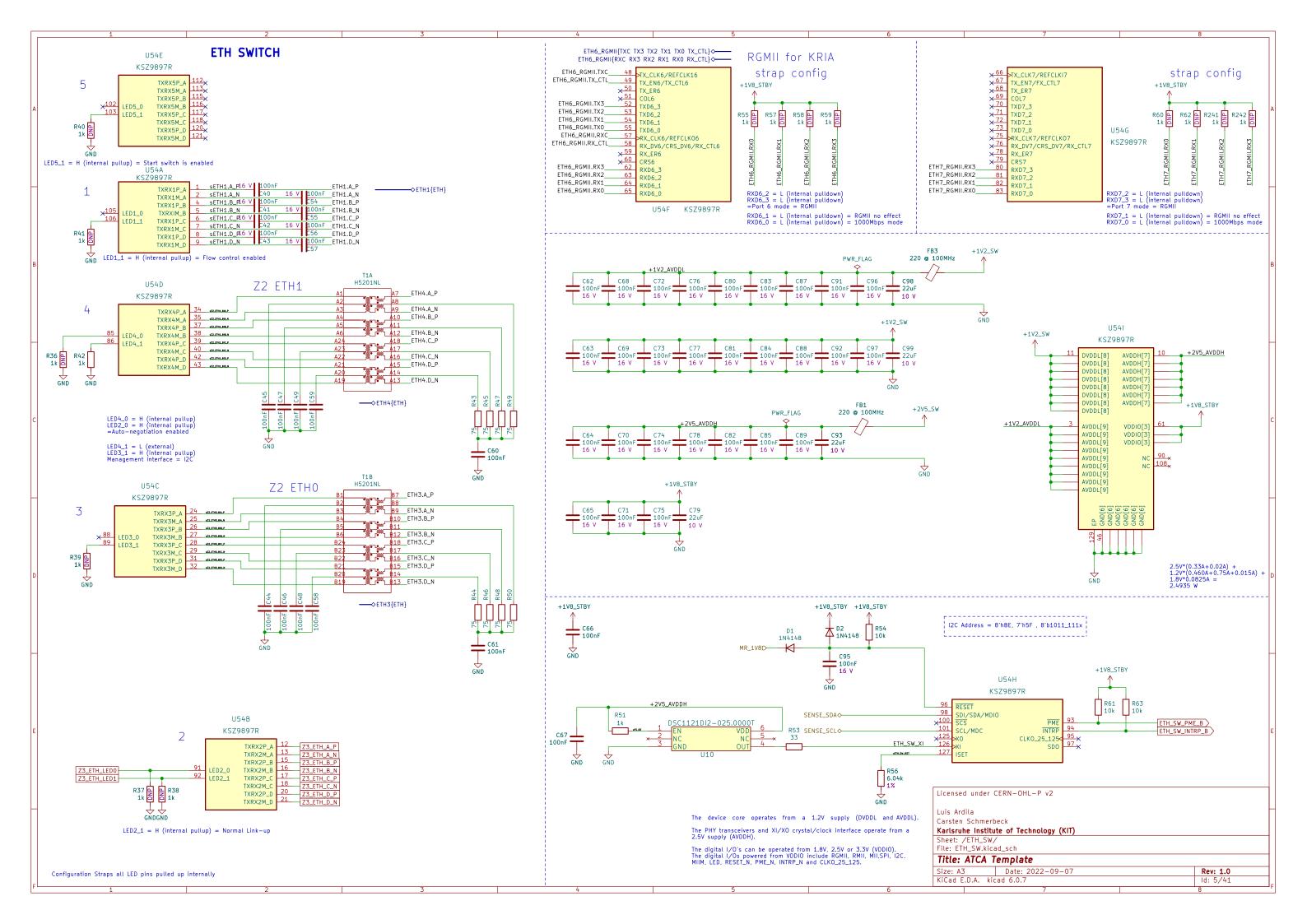
Size: A3 Date: 2022-09-07 Rev: 1.0

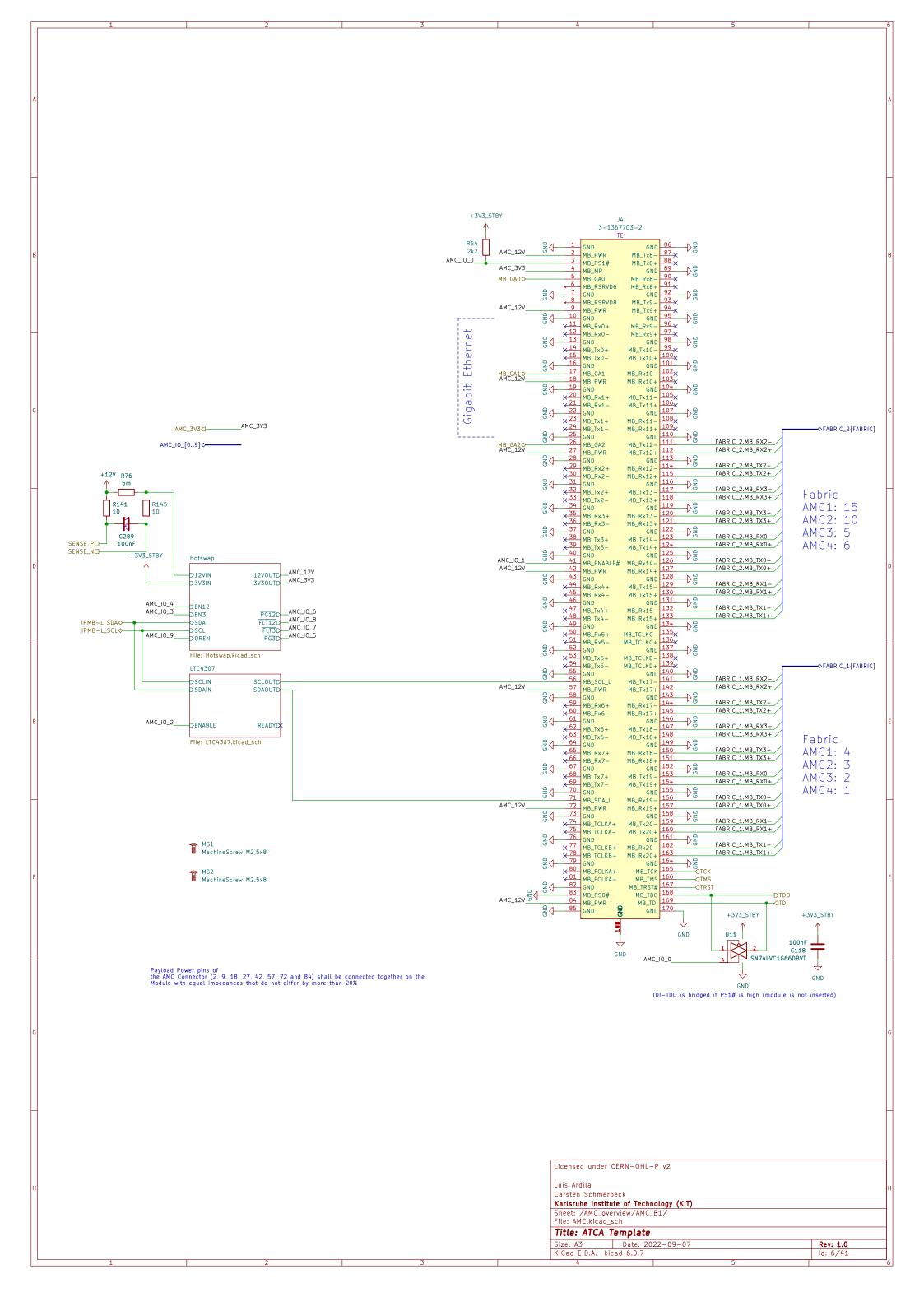
KiCad E.D.A. kicad 6.0.7 Id: 2/41

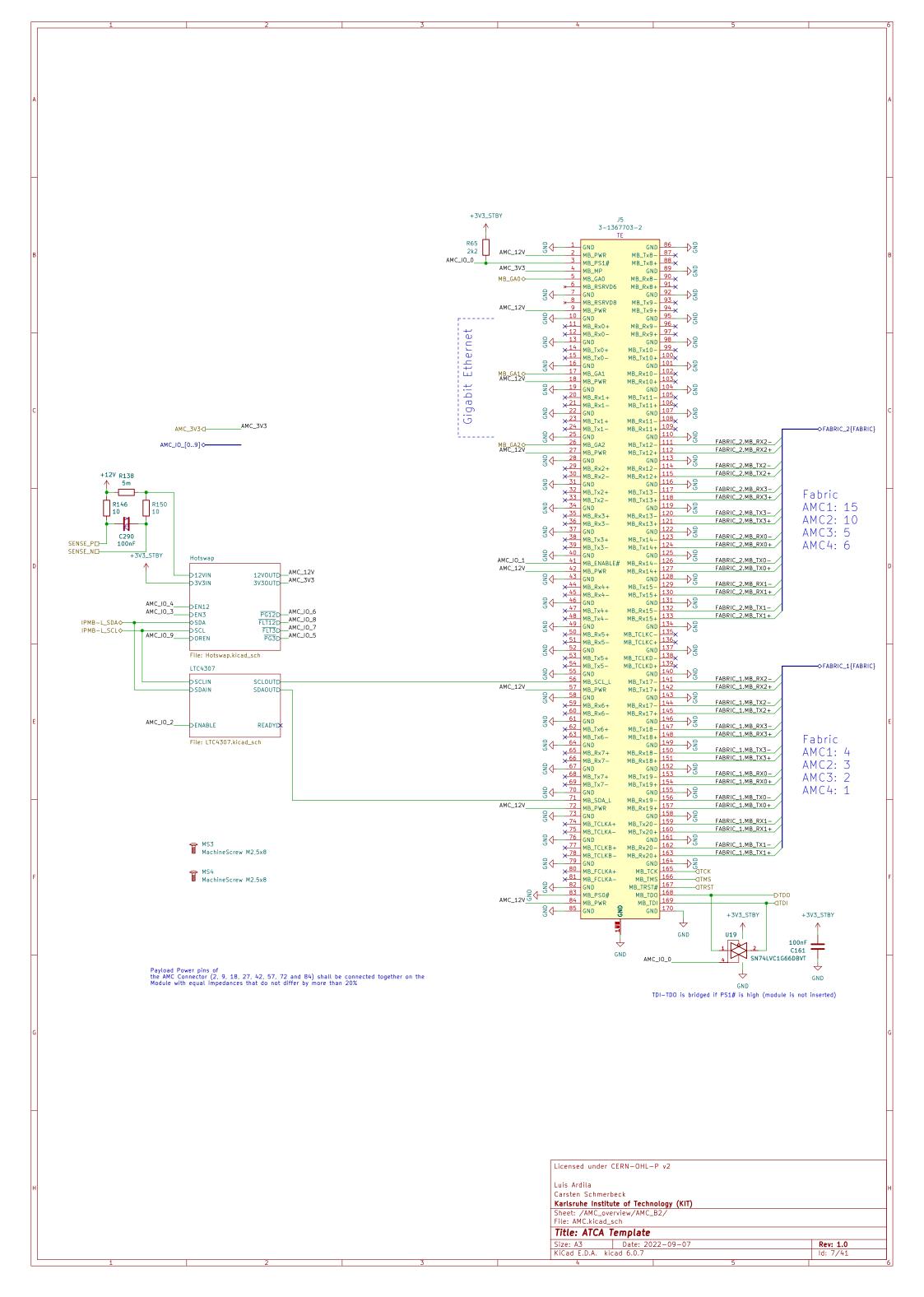


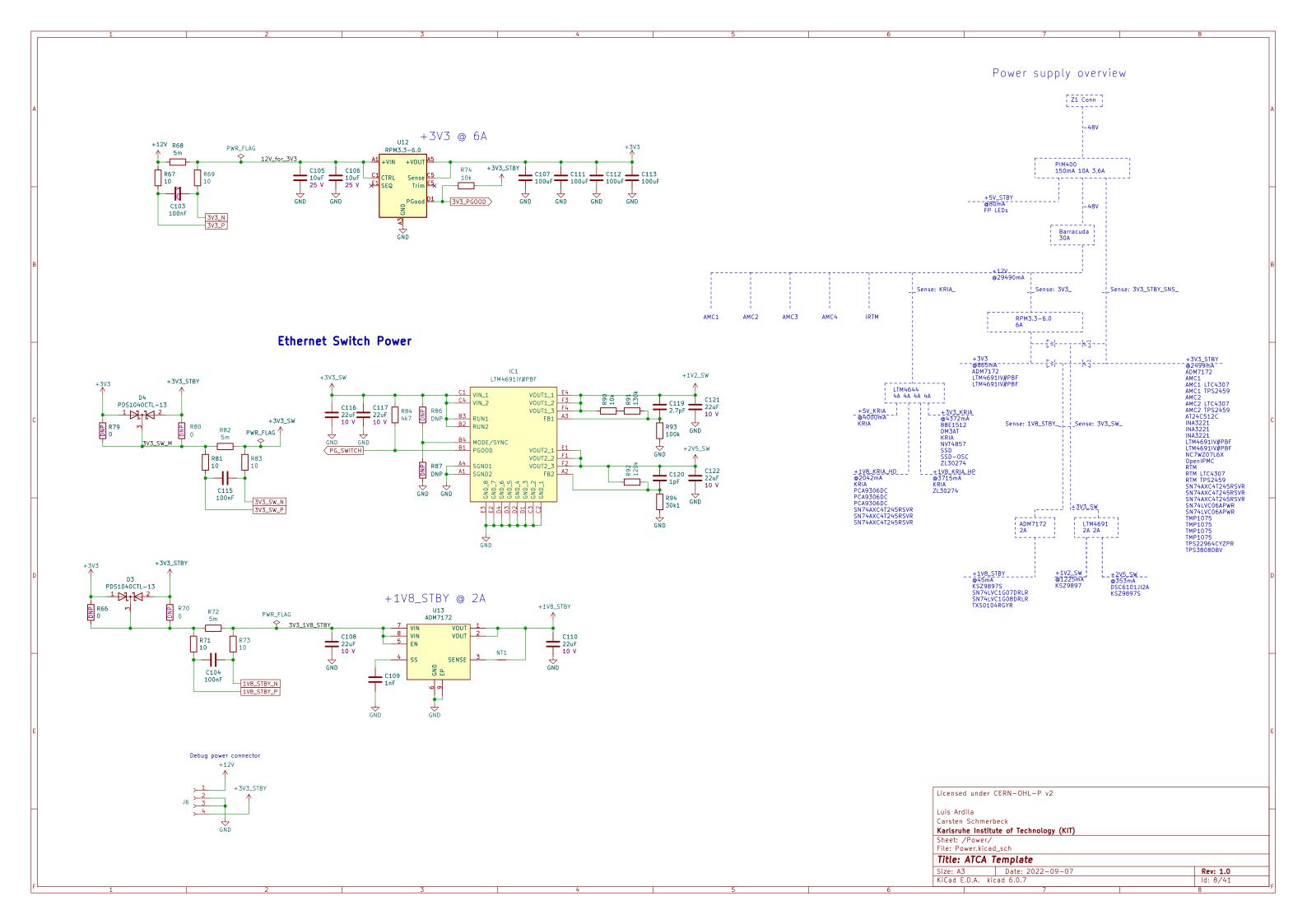


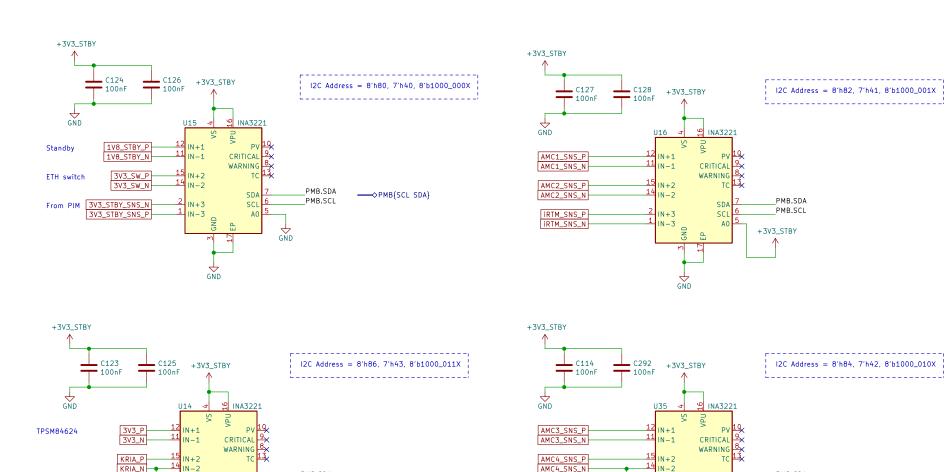












Unused Channe

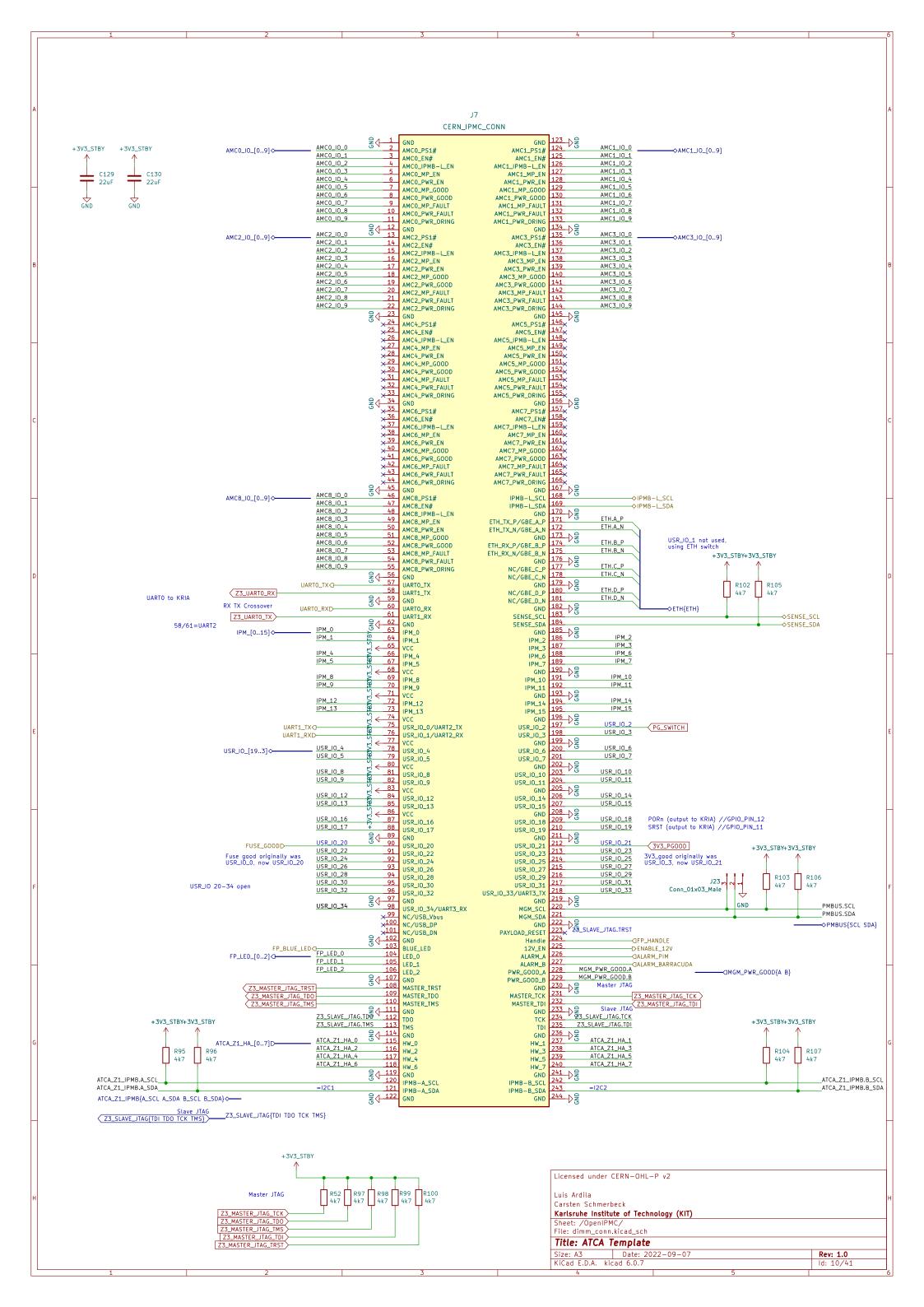
PMB.SCL

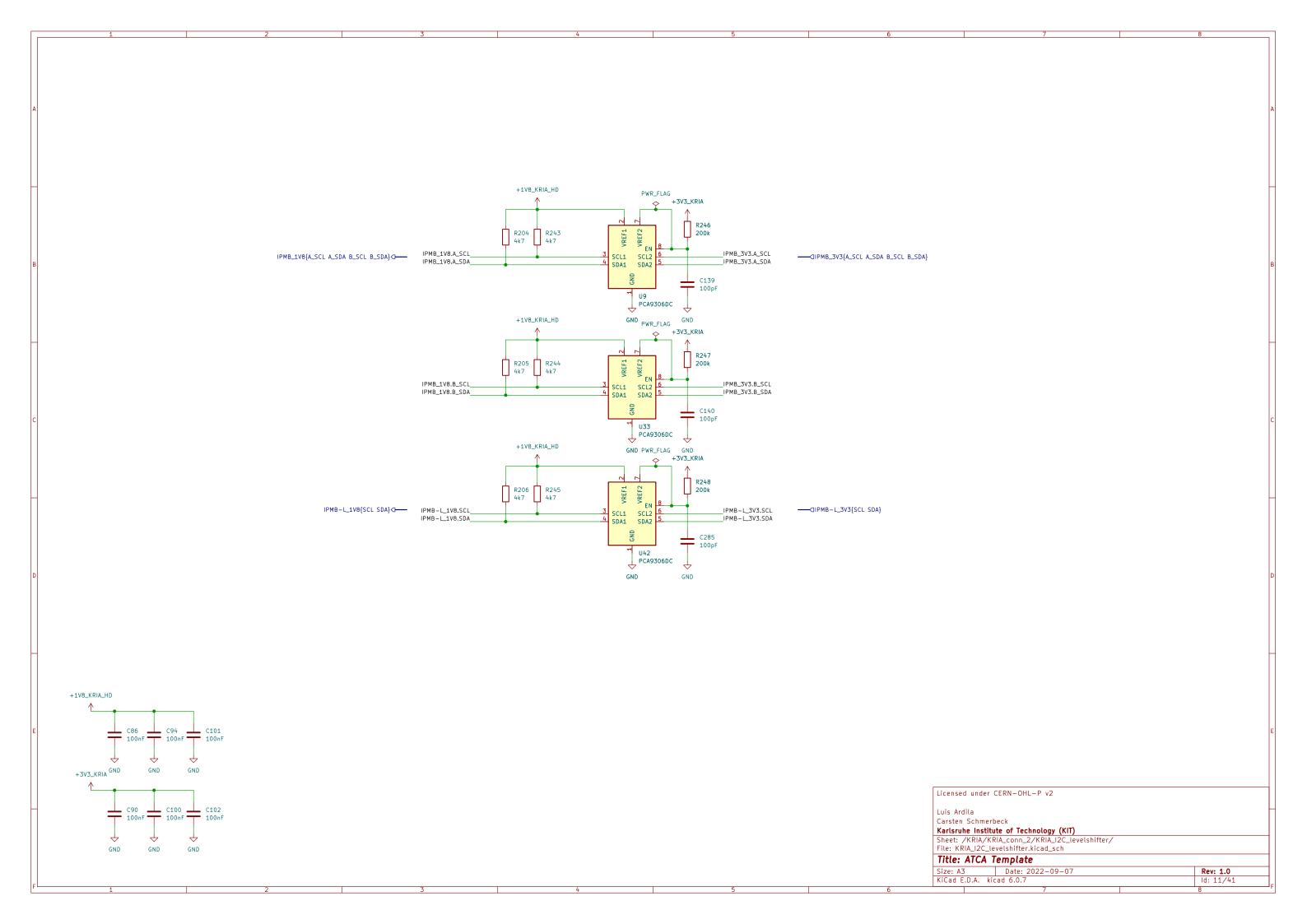
Unused Channel

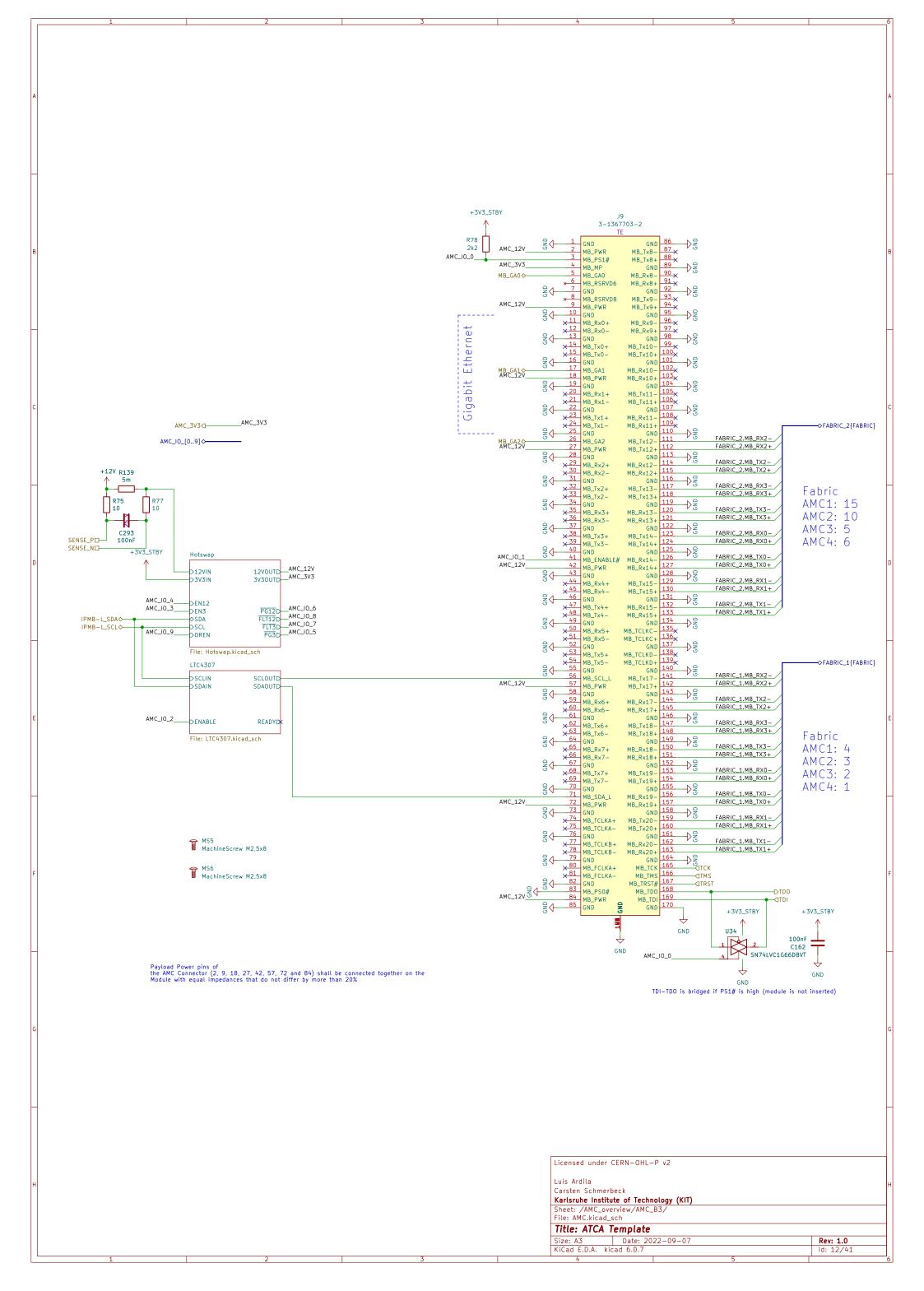
Licensed under CERN-OHL-P v2 Luis Ardila Carsten Schmerbeck
Karlsruhe Institute of Technology (KIT) Sheet: /PWR\_SENSE/ File: pwr\_sense.kicad\_sch 
 Title: ATCA Template

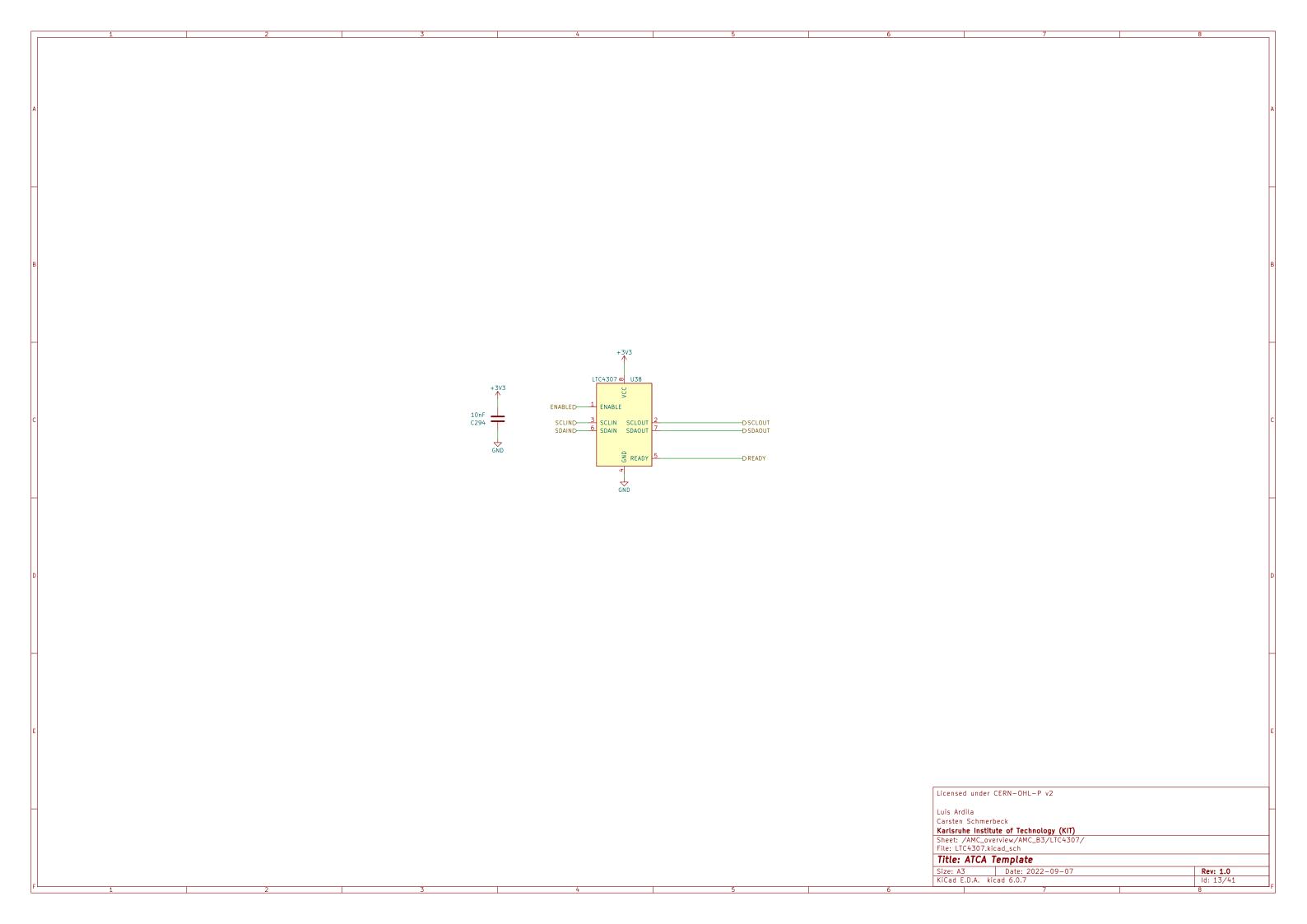
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 Date: 2022-09-07

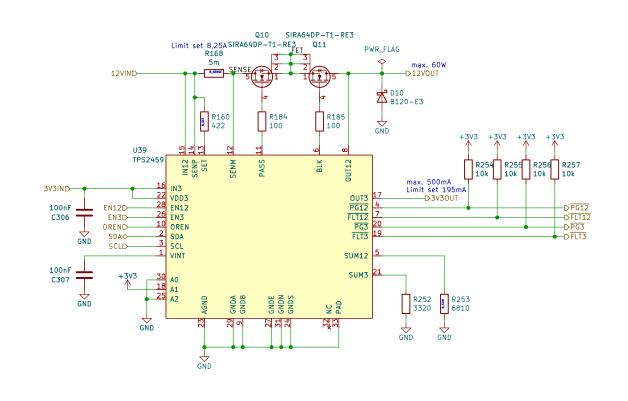
 KiCad E.D.A. kicad 6.0.7











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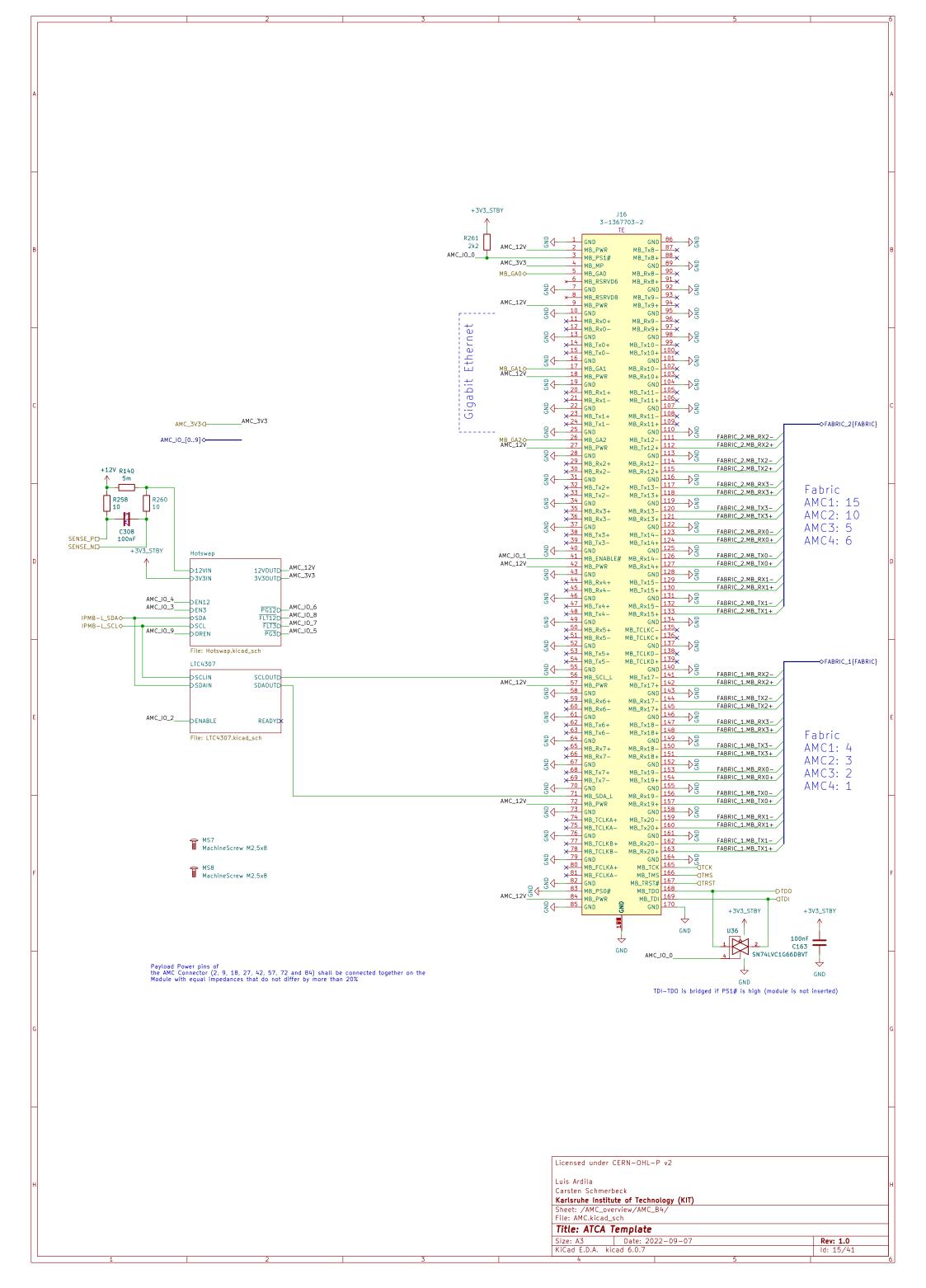
Luis Ardila
Carsten Schmerbeck
Karlsruhe Institute of Technology (KIT)

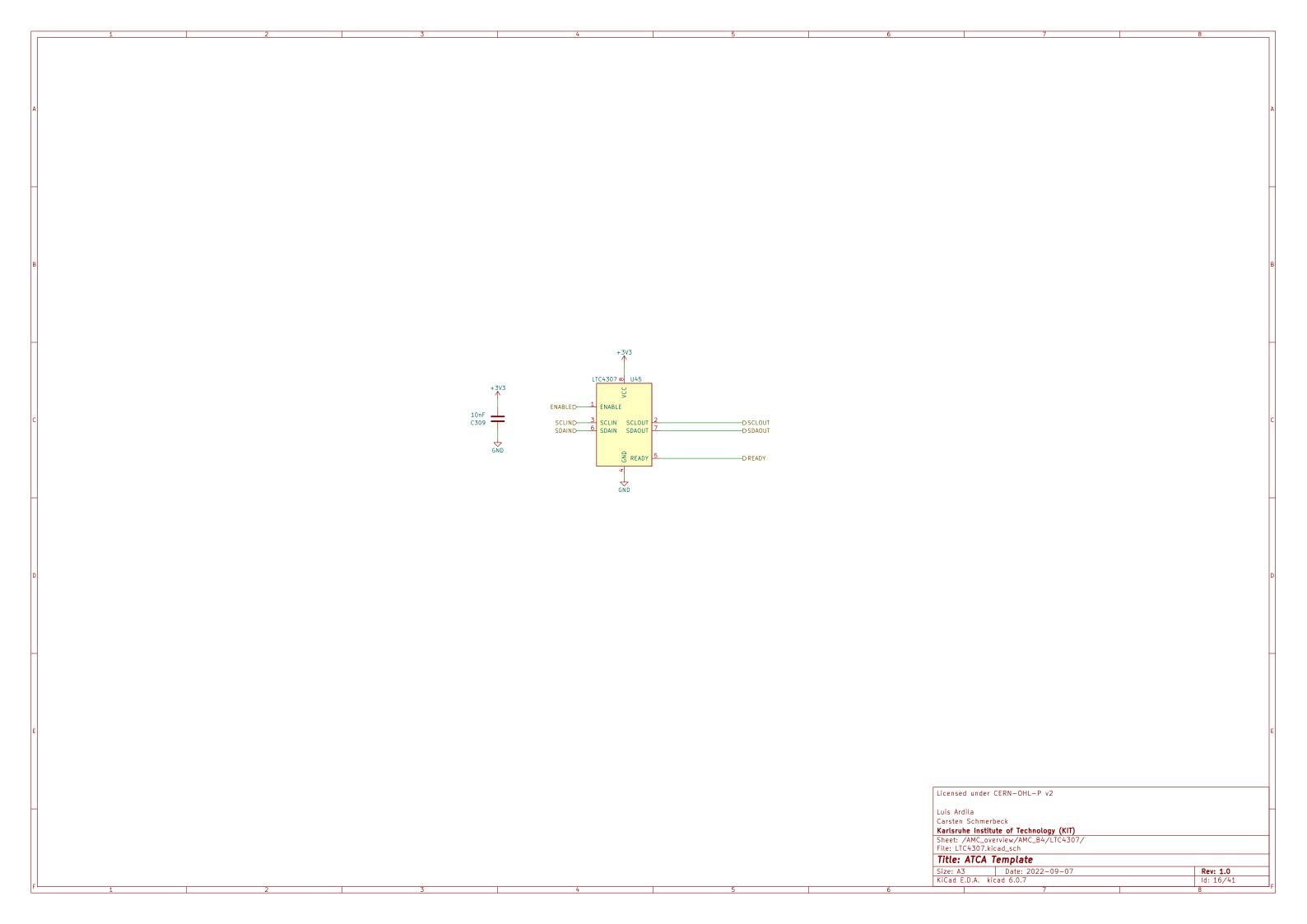
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File: Hotswap.kicad\_sch

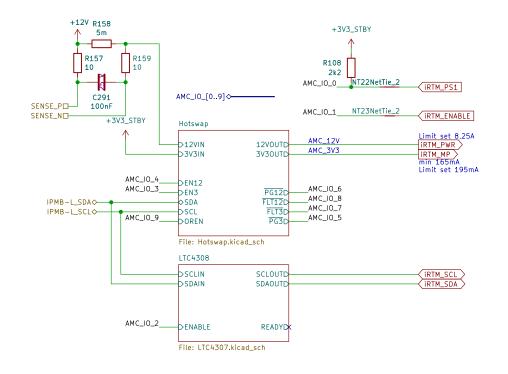
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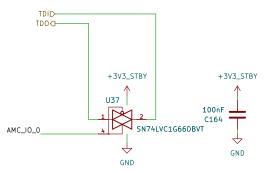
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KiCad E.D.A. kicad 6.0.7 Id: 14/41

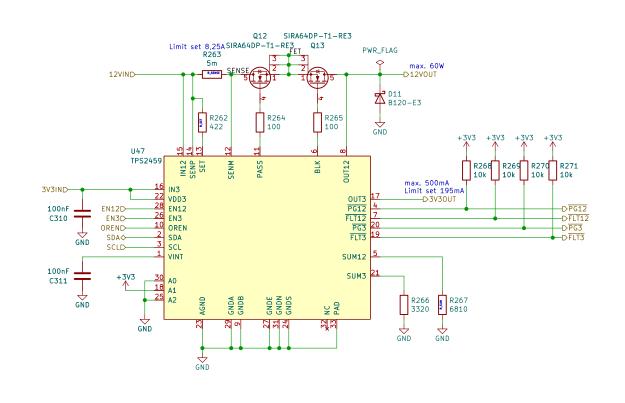








TDI-TDO is bridged if PS1# is high (module is not inserted)



| I2C Address | 8'h1C -> 8'b0001\_110(r/w) | 7'h0E -> 7'b000\_1110

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Sheet: /AMC\_overview/AMC\_B4/Hotswap/
File: Hotswap.kicad\_sch

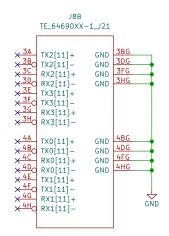
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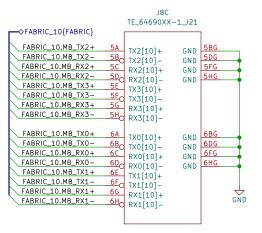
KiCad E.D.A. kicad 6.0.7 Id: 18/41



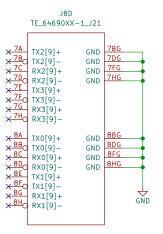
# **FABRIC INTERFACE 11**



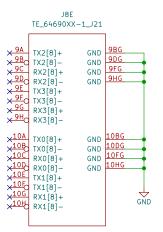
# FABRIC INTERFACE 10



### FABRIC INTERFACE 9



# **FABRIC INTERFACE 8**



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Sheet: /ATCA\_Z2J21/
File: ATCA\_Z2J21.kicad\_sch

Title: ATCA Template

Size: A3 Date: 2022-09-07 Rev: 1.0

KiCad E.D.A. kicad 6.0.7 Id: 19/41

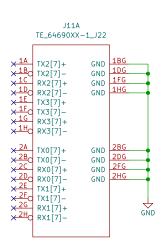
FABRIC INTERFACE 7

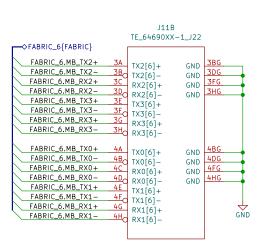
#### **FABRIC INTERFACE 6**

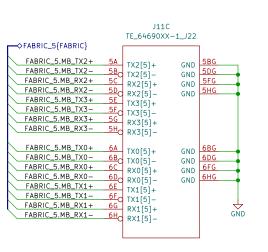
#### FABRIC INTERFACE 5

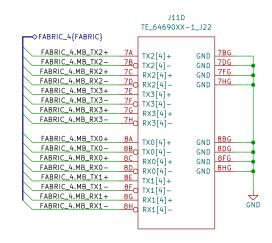
#### FABRIC INTERFACE 4

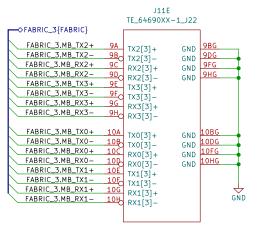
#### FABRIC INTERFACE 3











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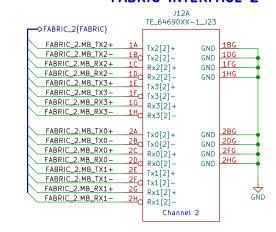
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Title: ATCA Template

Size: A3 Date: 2022-09-07 Rev: 1.0

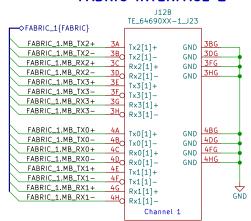
KiCad E.D.A. kicad 6.0.7 Id: 20/41



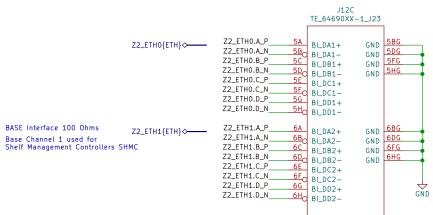


FABRIC Interface 100 Ohms

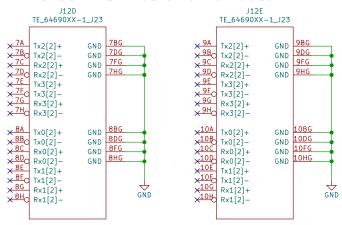
#### **FABRIC INTERFACE 1**



# BASE INTERFACE 1-2



# BASE INTERFACE 3-6 NOT USED



```
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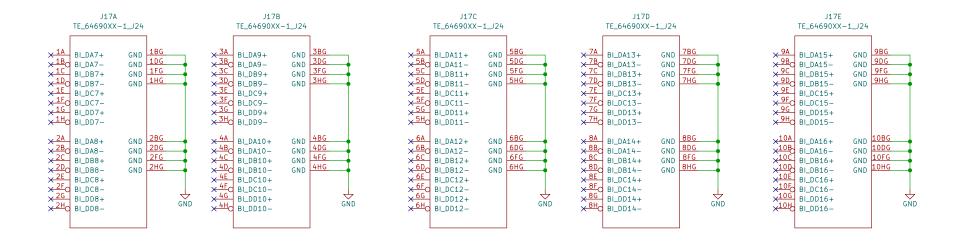
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Title: ATCA Template

Size: A3 Date: 2022-09-07 Rev: 1.0

KiCad E.D.A. kicad 6.0.7 Id: 21/41
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# **BASE INTERFACE**



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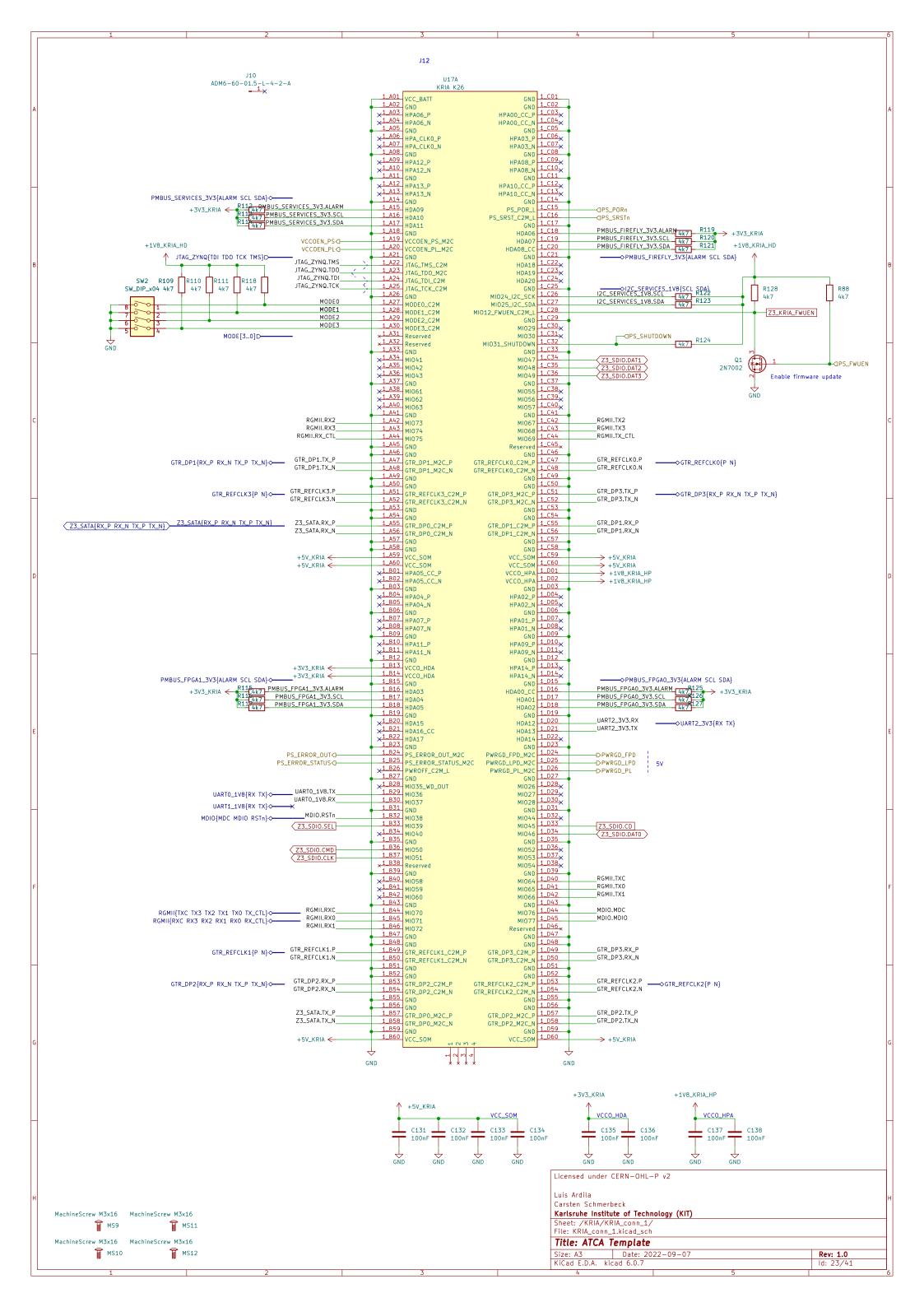
Luis Ardila
Carsten Schmerbeck
Karlsruhe Institute of Technology (KIT)

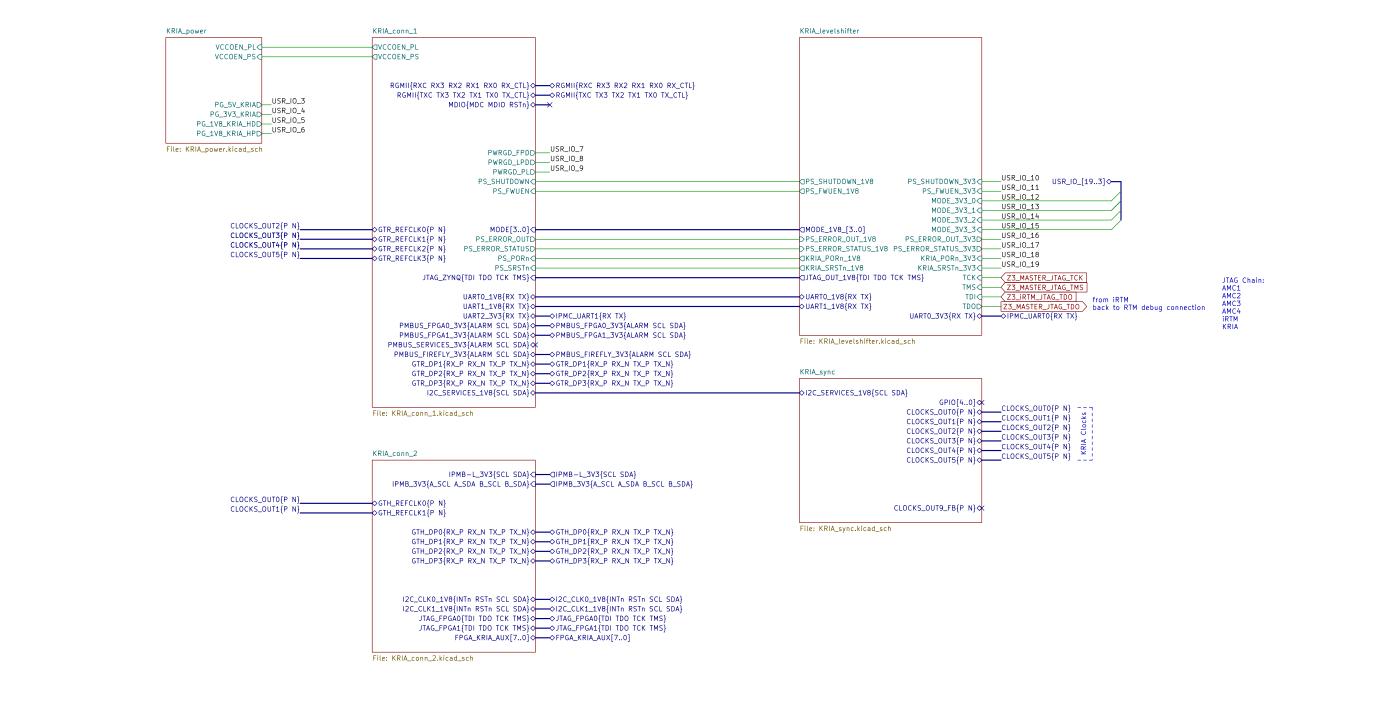
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Title: ATCA\_Template

Size: A3 Date: 2022-09-07 Rev: 1.0

KiCad E.D.A. kicad 6.0.7 Id: 22/41





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Sheet: /KRIA/
File: KRIA.kicad\_sch

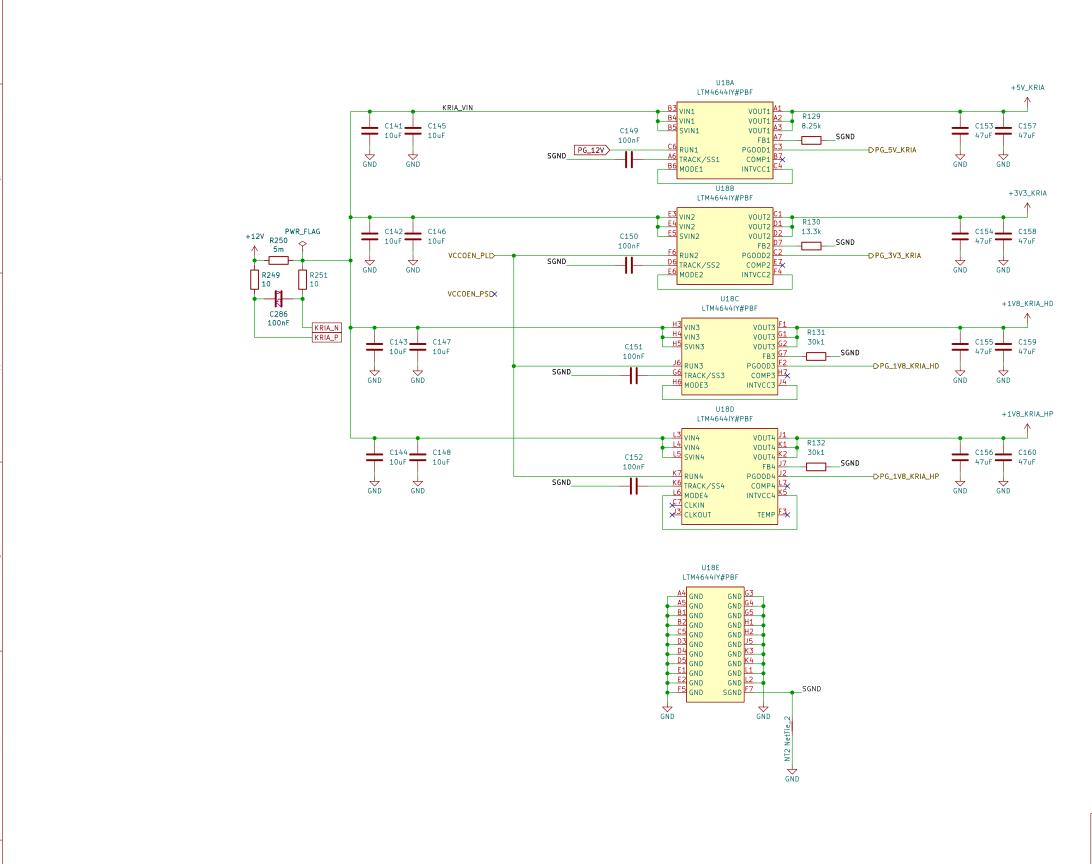
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Size: A3 Date: 2022-09-07 Rev: 1.0

KiCad E.D.A. kicad 6.0.7 Id: 25/41

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4 5



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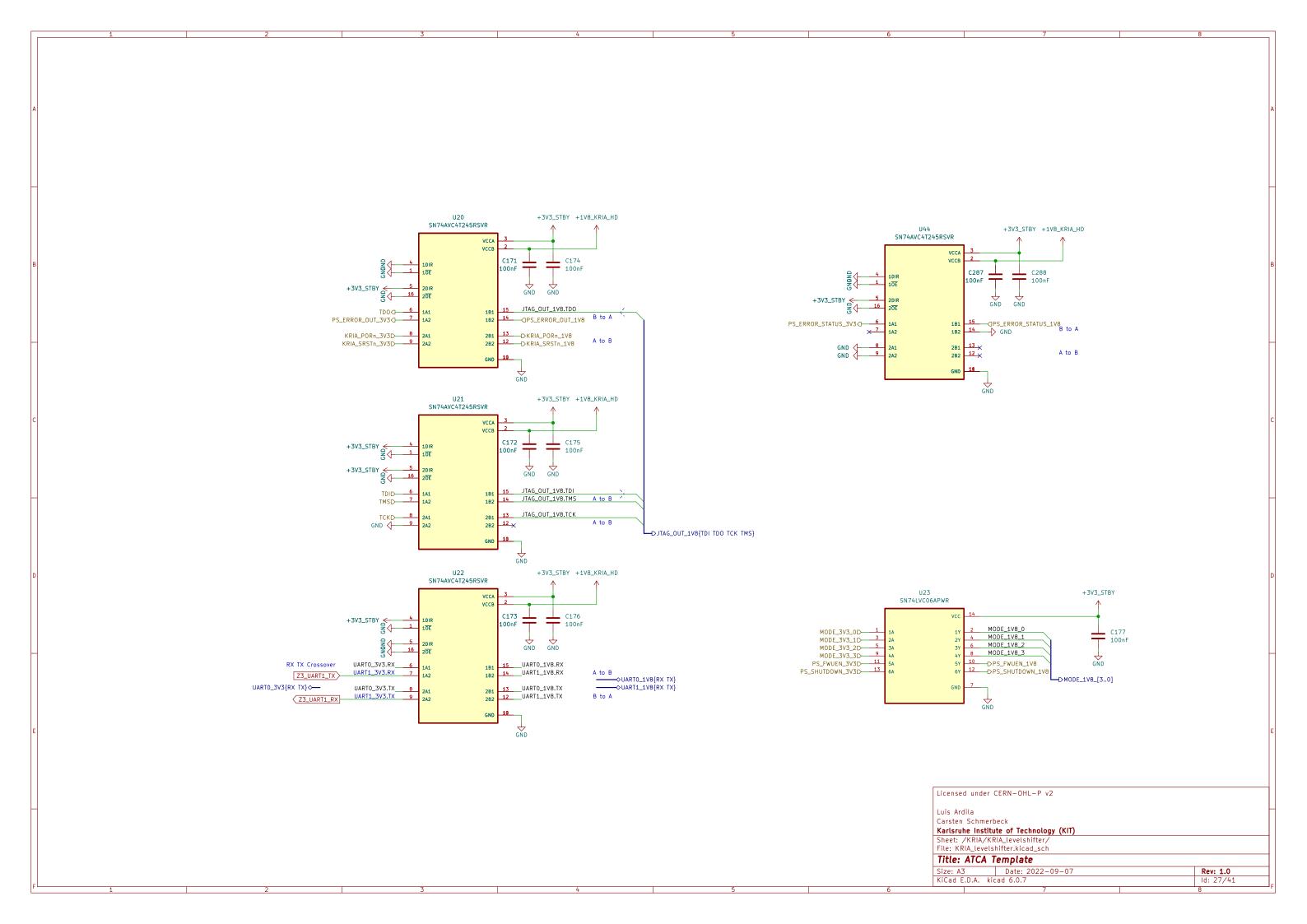
Luis Ardila
Carsten Schmerbeck
Karlsruhe Institute of Technology (KIT)

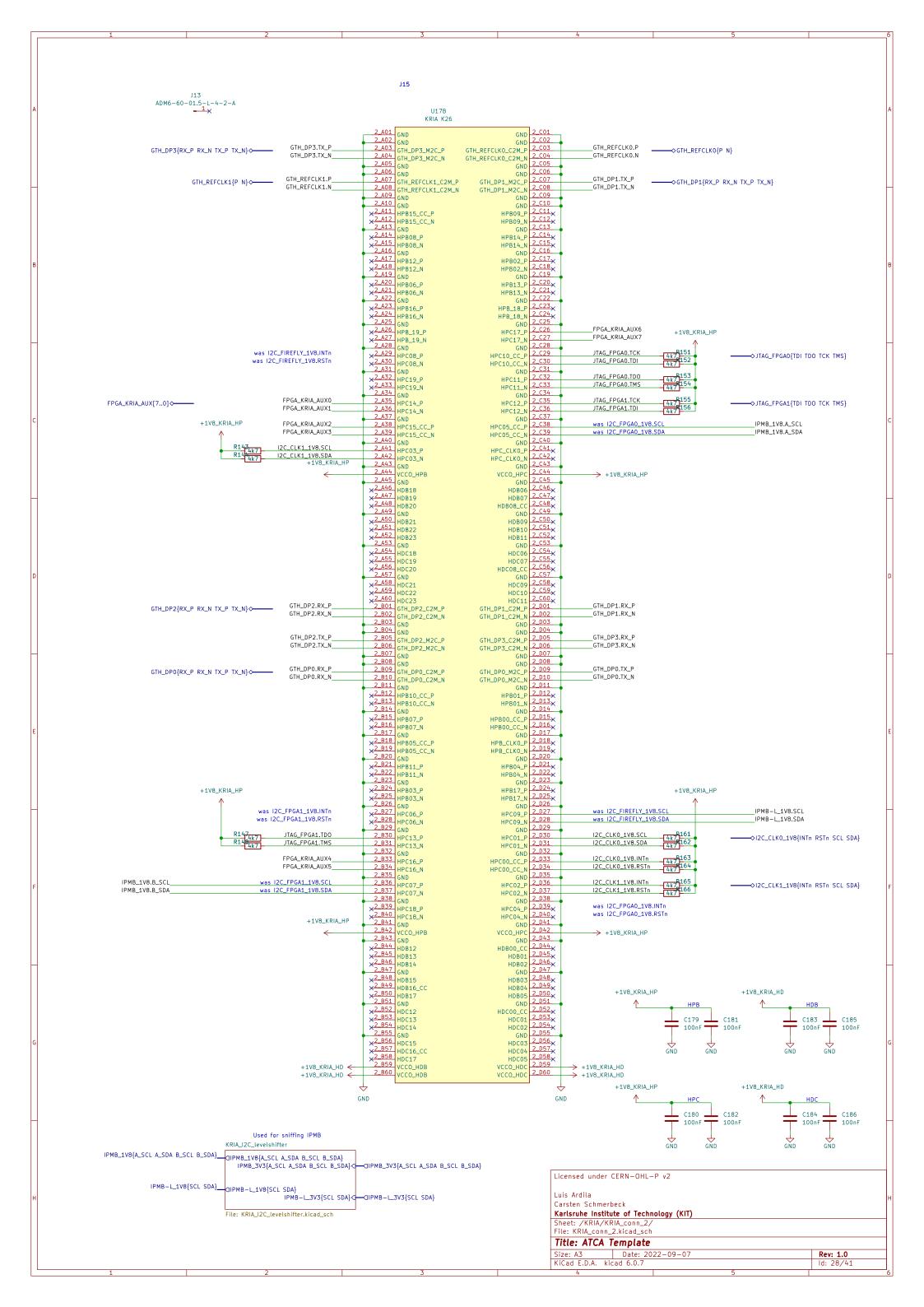
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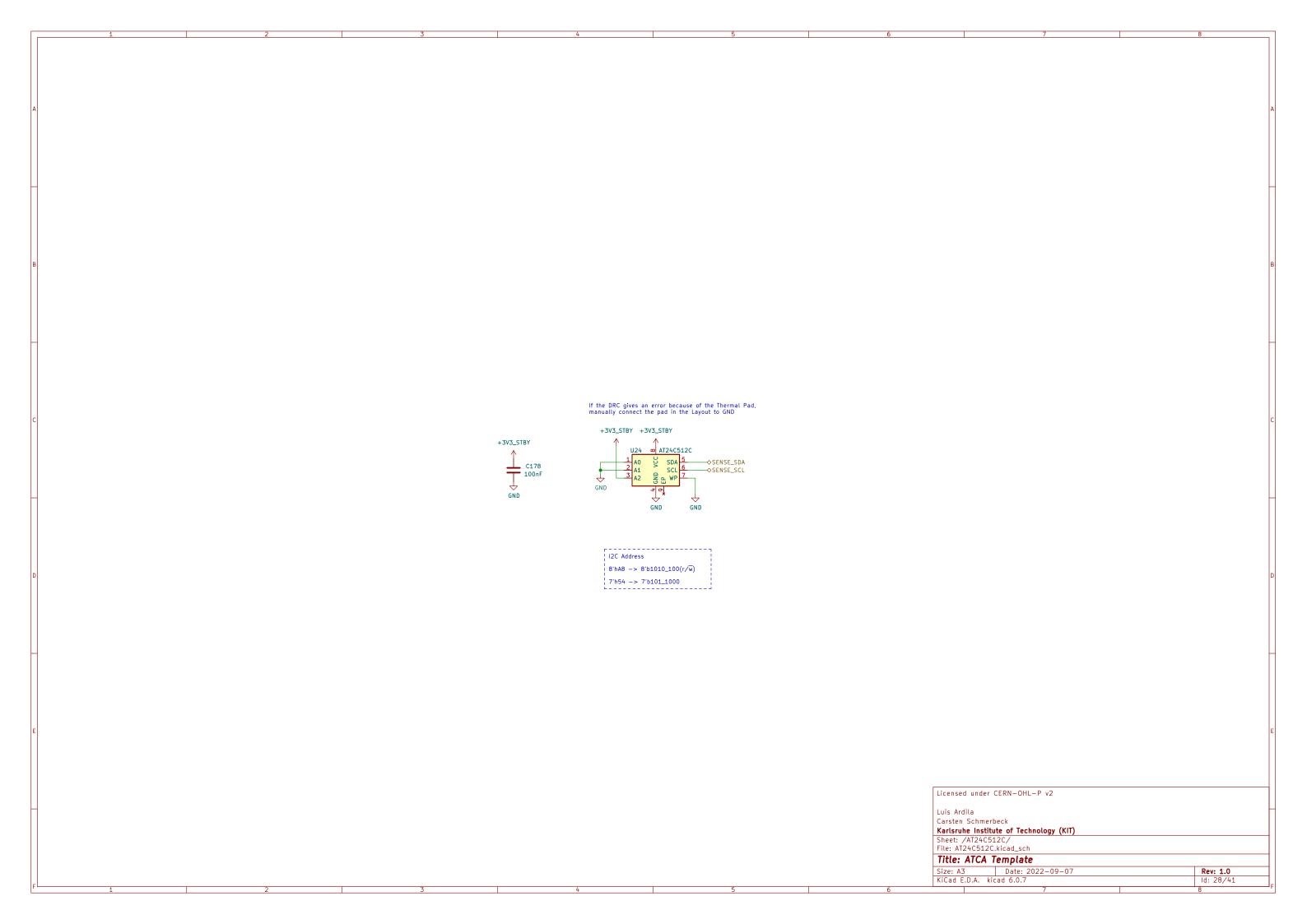
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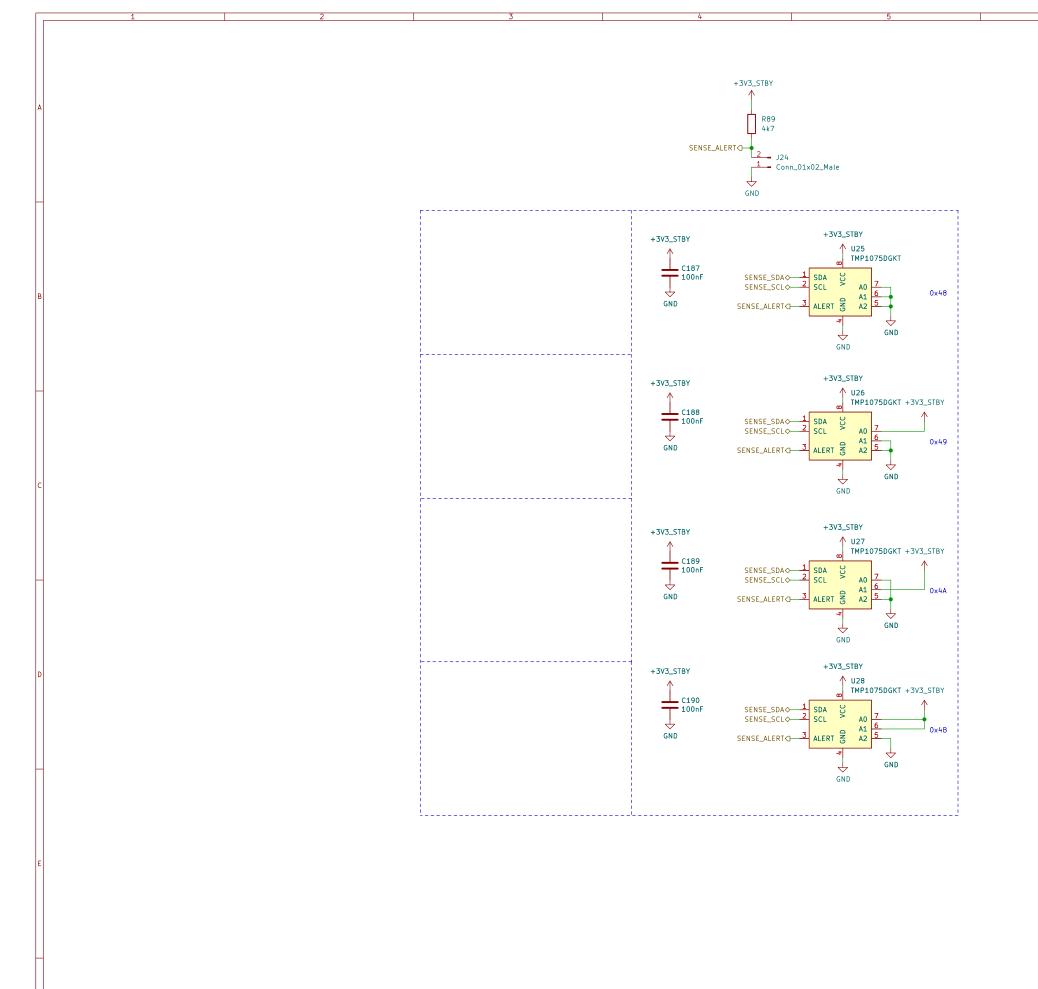
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KiCad E.D.A. kicad 6.0.7 Id: 26/41









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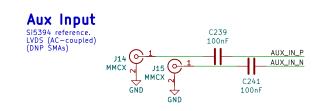
Luis Ardila
Carsten Schmerbeck
Karlsruhe Institute of Technology (KIT)

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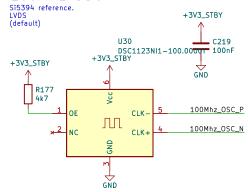
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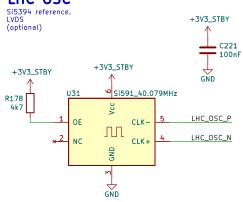
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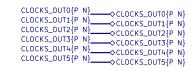
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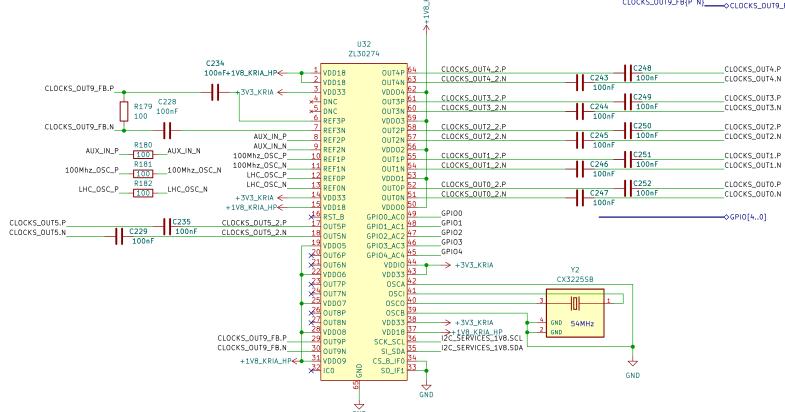
#### LHC OSC

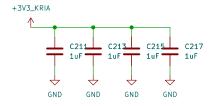


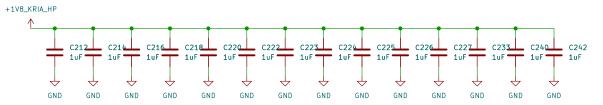
# I2C\_SERVICES\_1V8{SCL SDA}\_\_\_\_\_\_O12C\_SERVICES\_1V8{SCL SDA}











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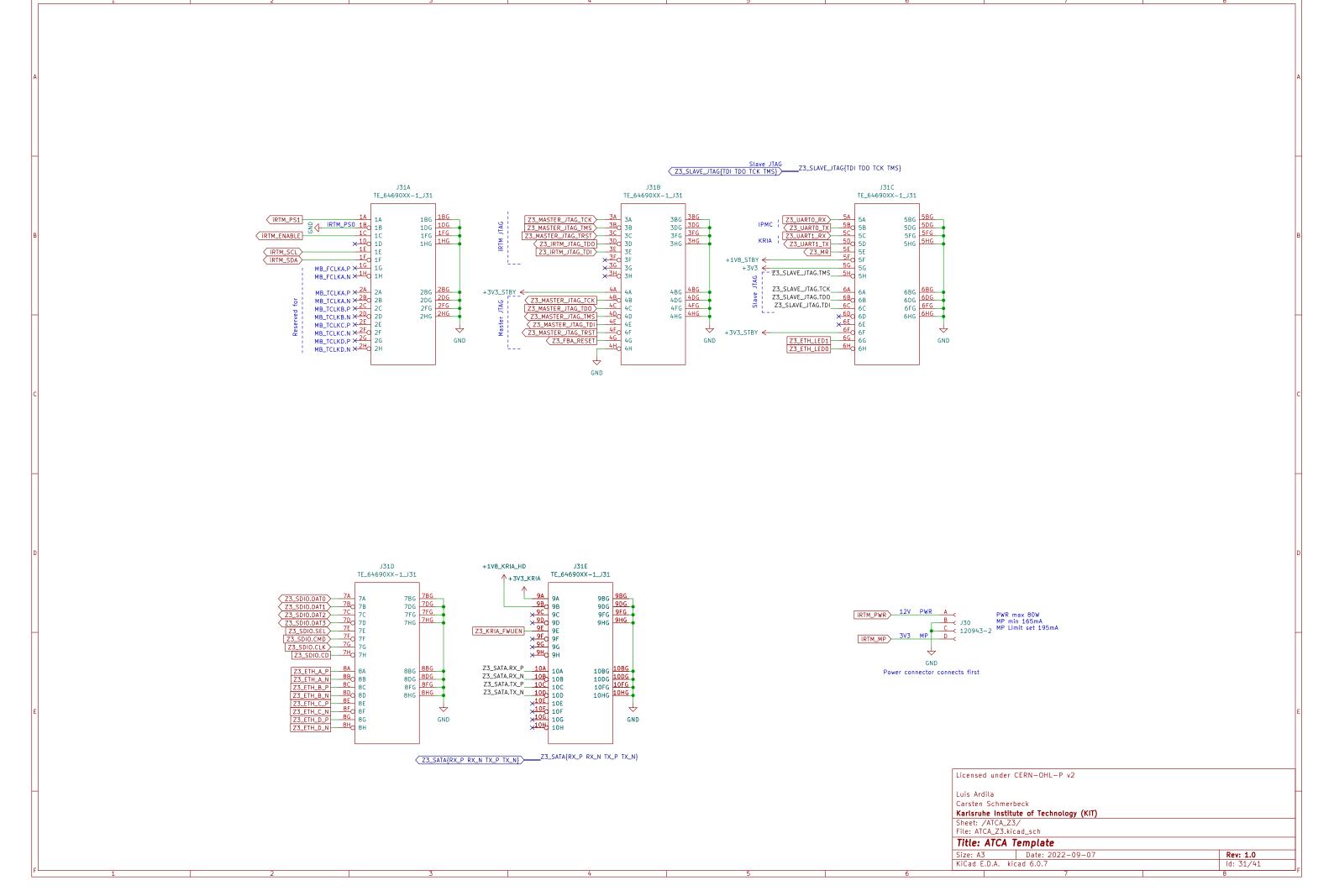
Luis Ardila

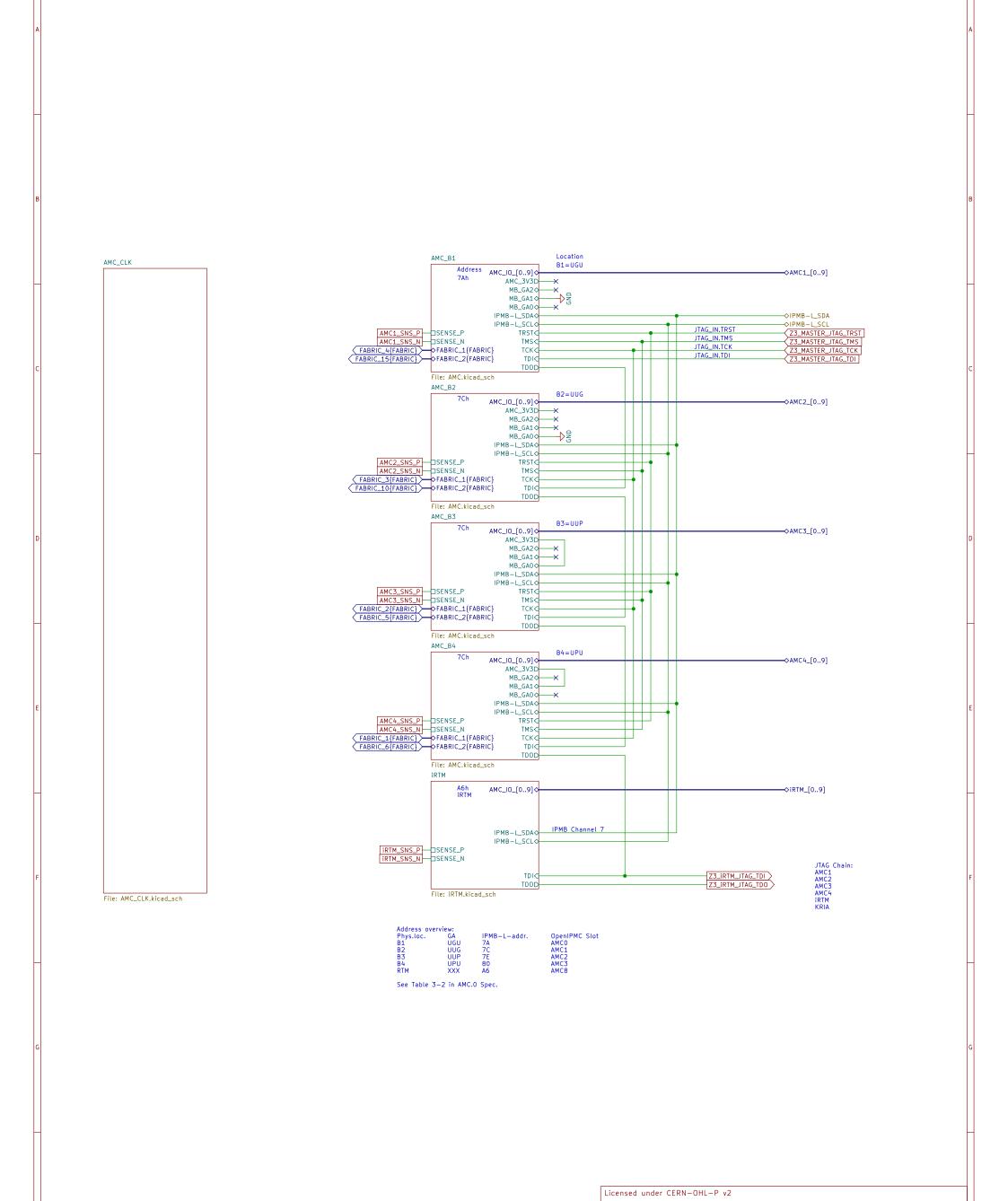
Carsten Schmerbeck Karlsruhe Institute of Technology (KIT)

Sheet: /KRIA/KRIA\_sync/ File: KRIA\_sync.kicad\_sch

Title: ATCA Template

Size: A3 Date: 2022-09-07 KiCad E.D.A. kicad 6.0.7





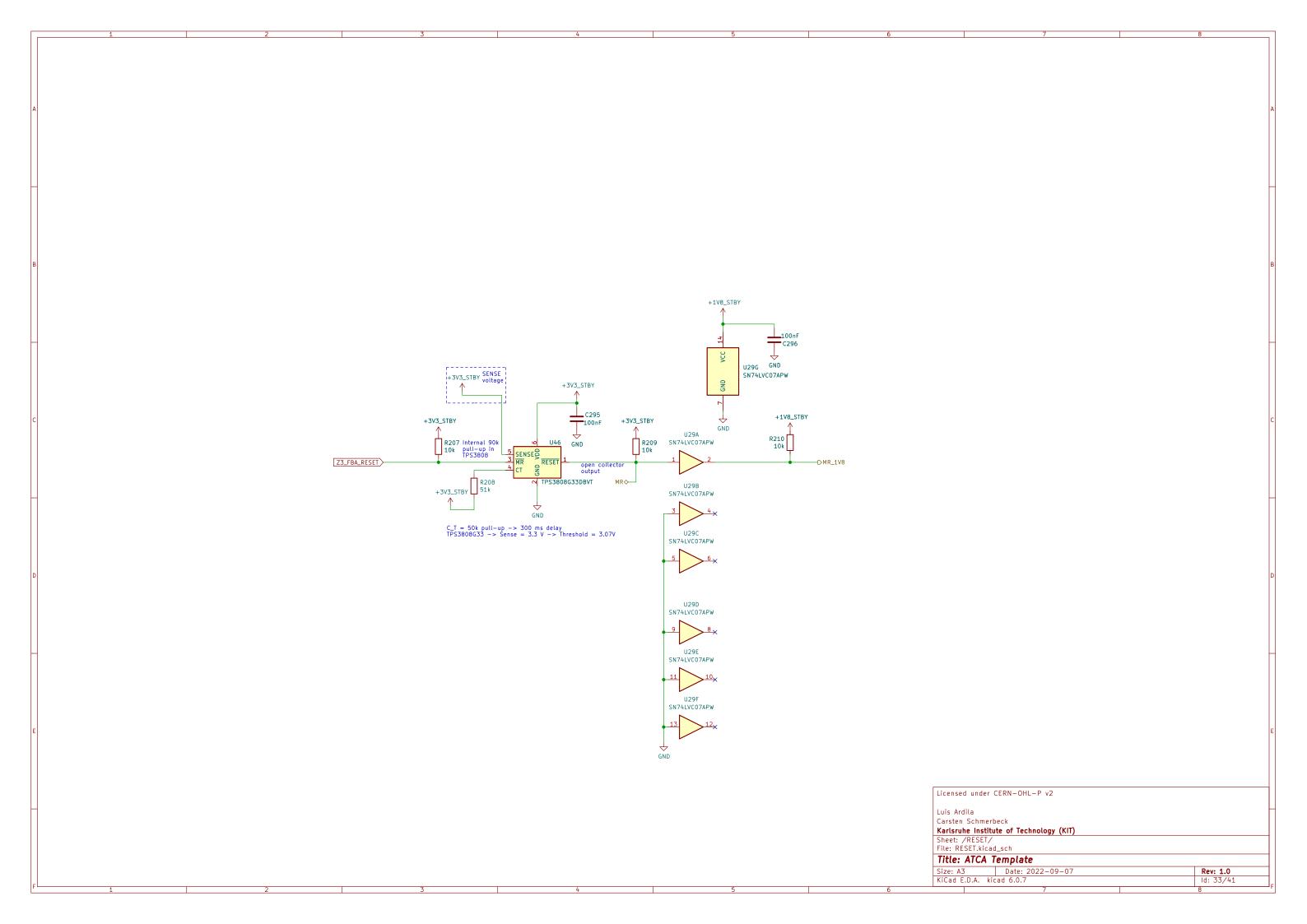
Luis Ardila
Carsten Schmerbeck
Karlsruhe Institute of Technology (KIT)

Sheet: /AMC\_overview/
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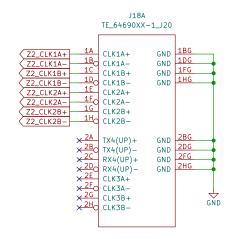
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KiCad E.D.A. kicad 6.0.7 Id: 32/41

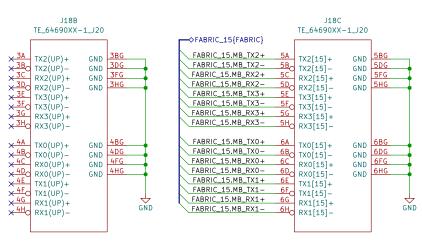


#### **CLOCK INTERFACE**

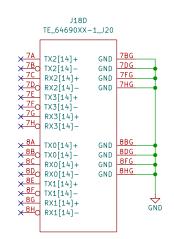


CLK1 = 8 kHZ CLK2 = 19.44 MHz CLK3 = 19.44 MHz

#### **UPDATE INTERFACE**



#### FABRIC INTERFACE 15 FABRIC INTERFACE 14



FABRIC INTERFACE 13

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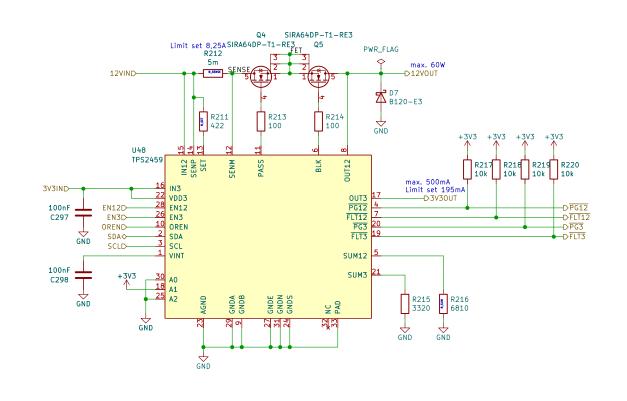
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Size: A3 Date: 2022-09-07 Rev: 1.0

KiCad E.D.A. kicad 6.0.7 Id: 39/41

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В							
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				Licensed under CERN-UHL-	r v∠		
				Luis Ardila			
				Carsten Schmerbeck			
				Karlsruhe Institute of Technology (KIT)			
				Karlsruhe Institute of Technology (KIT) Sheet: /AMC_overview/AMC_CLK/ File: AMC_CLK.kicad_sch			
D				File: AMC_CLK.kicad_sch			
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				I KiCad F D A Vicad 6 0 7			
				4			10: 41/41

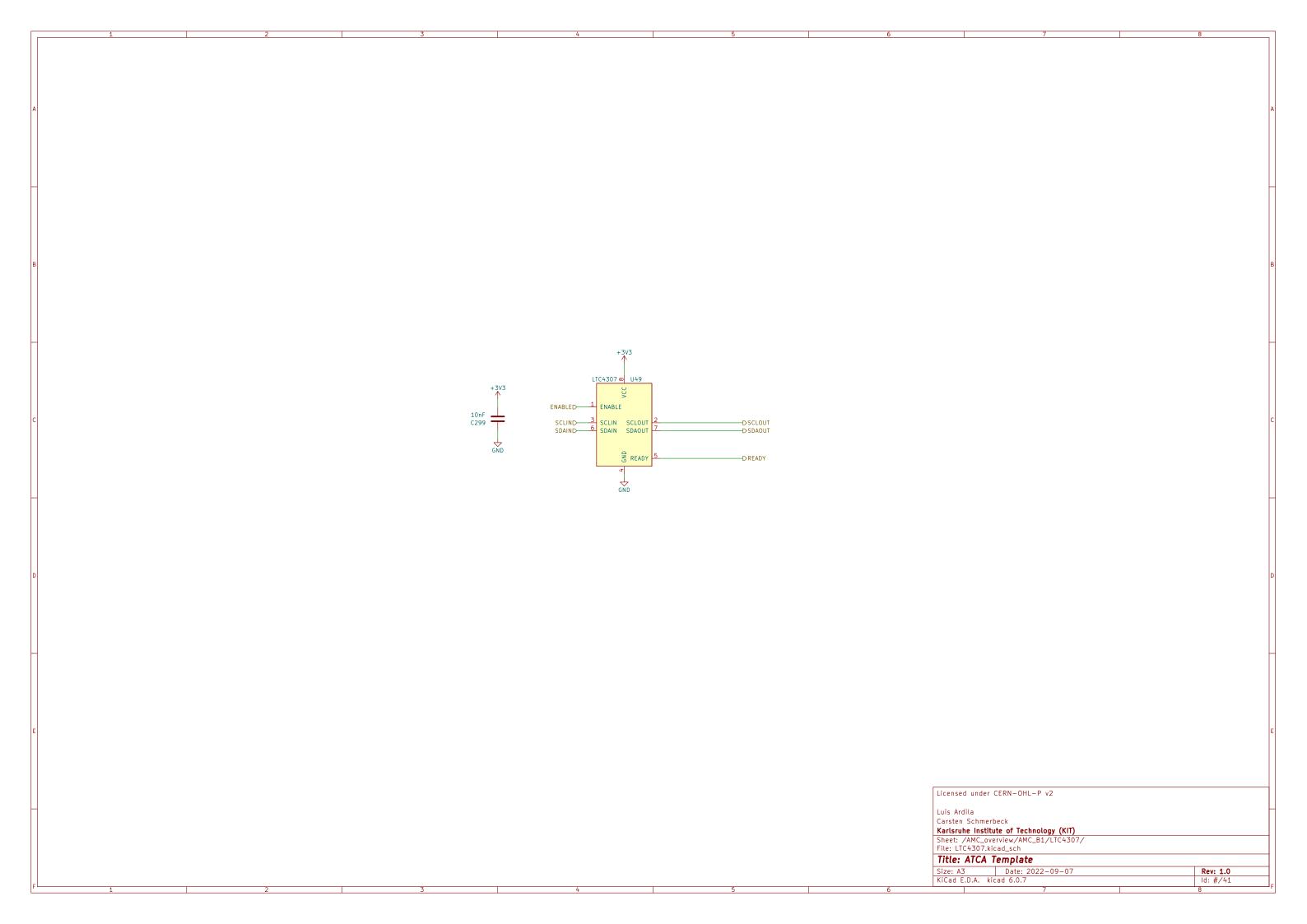


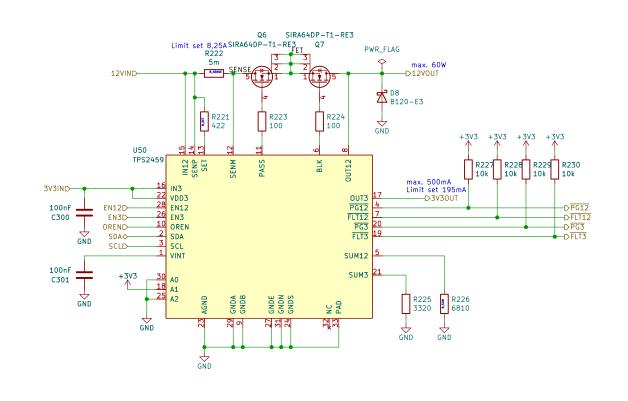
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Sheet: /AMC\_overview/AMC\_B1/Hotswap/
File: Hotswap.kicad\_sch

Title: ATCA Template
Size: A3 Date: 2022-09-07 Rev: 1.0
KiCad E.D.A. kicad 6.0.7 Id: #/41

Size: AS
KiCad E.D.A. kic





| I2C Address | 8'h1C -> 8'b0001\_110(r/w) | 7'h0E -> 7'b000\_1110

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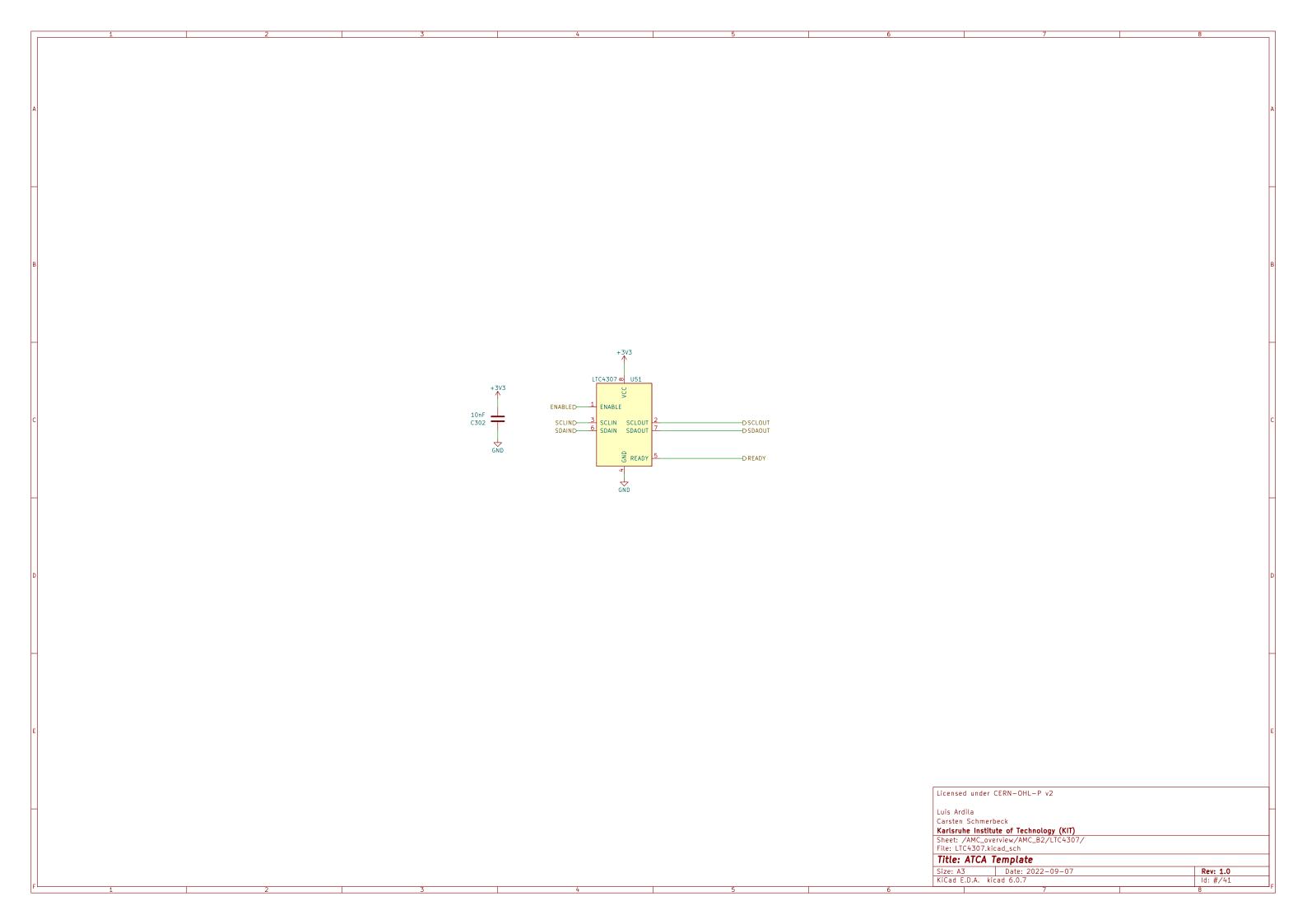
Luis Ardila
Carsten Schmerbeck
Karlsruhe Institute of Technology (KIT)

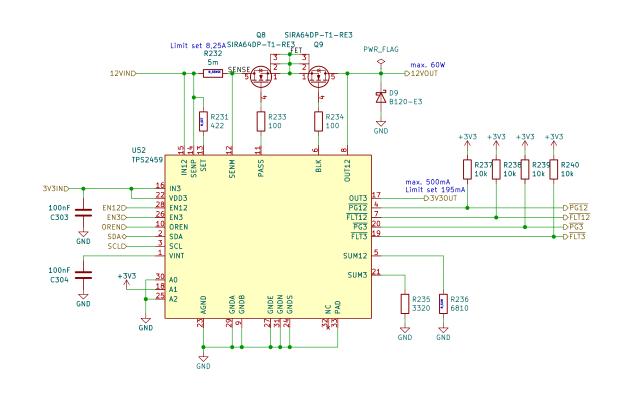
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Title: ATCA Template

Size: A3 Date: 2022-09-07 Rev: 1.0

KiCad E.D.A. kicad 6.0.7 Id: #/41





| I2C Address | 8'h1C -> 8'b0001\_110(r/w) | 7'h0E -> 7'b000\_1110

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Sheet: /AMC\_overview/iRTM/Hotswap/
File: Hotswap.kicad\_sch

Title: ATCA Template

Size: A3 Date: 2022-09-07 Rev: 1.0

KiCad E.D.A. kicad 6.0.7 Id: #/41

