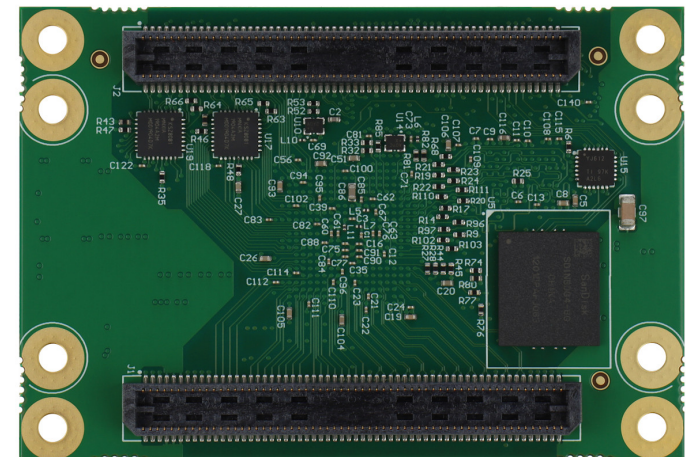
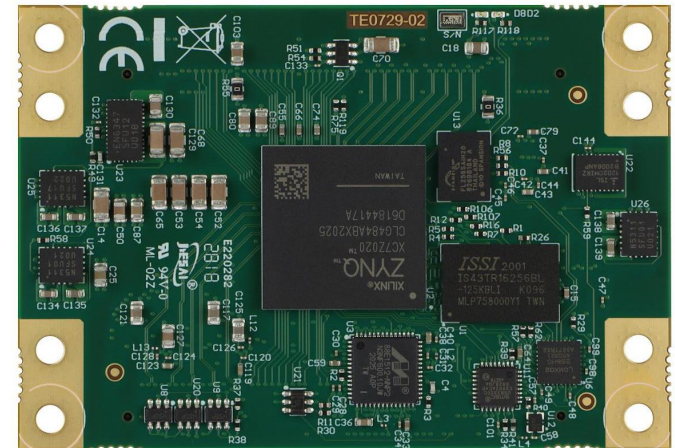
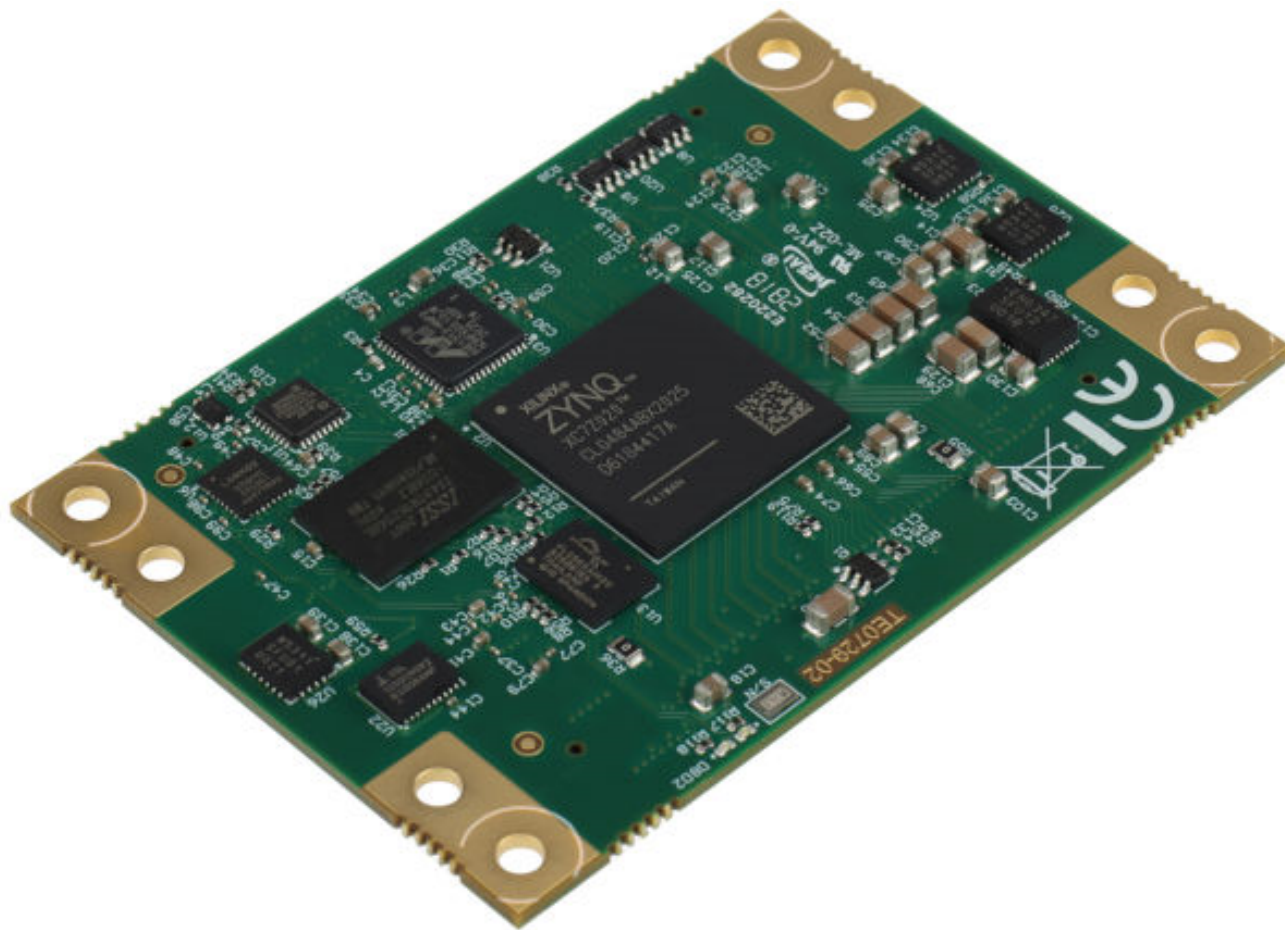




Regarding the usage of our schematics and alike documentation for Trenz module TE0729.

Project is protected under copyright and we strongly and strictly prohibit the reverse engineering or recreation, even if the design is just adapted or modified.

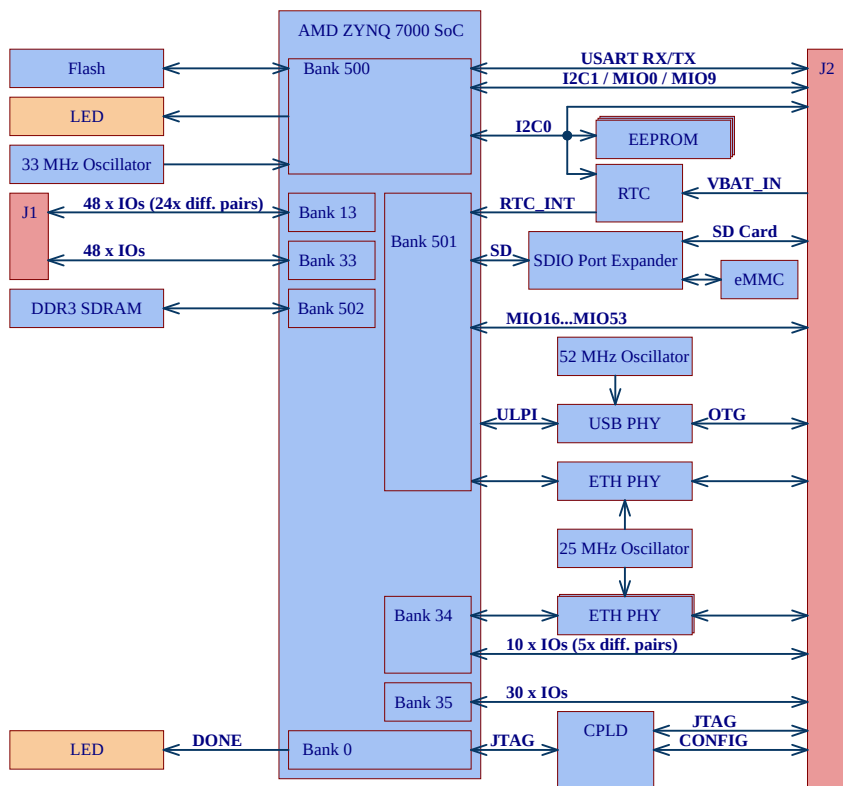
TE0729 is protected under such right and in case of plagiarism we will have to do anything necessary in order to protect our assets.

Schematics and other handouts serve for informational purposes only!

	Title: TE0729 – Legal Notice		
	A4	Number: TE0729 62I63MA	Rev. 03
	Date: 22.01.2024	Copyright: Trenz Electronic GmbH	Page 1 of 22
	Filename: Legal Notices Modules.SchDoc		



Title: TE0729 – Revision History		
A4	Number: TE0729 62I63MA	Rev. 03
Date: 22.01.2024	Copyright: Trenz Electronic GmbH	Page 2 of 22
Filename: Revision_Changes.SchDoc		



Supported Voltage Ranges:

Power Rail	Direction	Range	Tolerance	Description	Note
VIN	IN	3.3 V	+/- 5 %	Baseboard Power	Baseboard Power Supply.
VBAT_IN	IN	1.8 V - 5.5 V	-	Micromodule Power	Supplies RTC.
VCCIO_13	OUT	3.3 V	-	Micromodule Power	Supplied by [3.3V].
VCCIO_33	OUT	3.3 V	-	Micromodule Power	Supplied by [3.3V].
1.8V	OUT	1.8 V	-	Micromodule Power	Supplies module periphery.
2.5V	OUT	2.5 V	-	Micromodule Power	Supplies module periphery.
3.3V	OUT	3.3 V	-	Micromodule Power	Supplies module periphery.

I2C Address:

Device	I2C BUS	I2C ADDR	Note
SoC U2E	I2C0	-	Master
EEPROM U8	I2C0	0x50	-
EEPROM U9	I2C0	0x51	-
EEPROM U20	I2C0	0x52	-
RTC U22	I2C0	0x6F	-
SRAM U22	I2C0	0x57	-

Legend:



B2B Connector



LED Interface



On-board Components

ZYNC_POWER

Power



Title:

TE0729

A4

Number: TE0729
62I63MA

Rev.

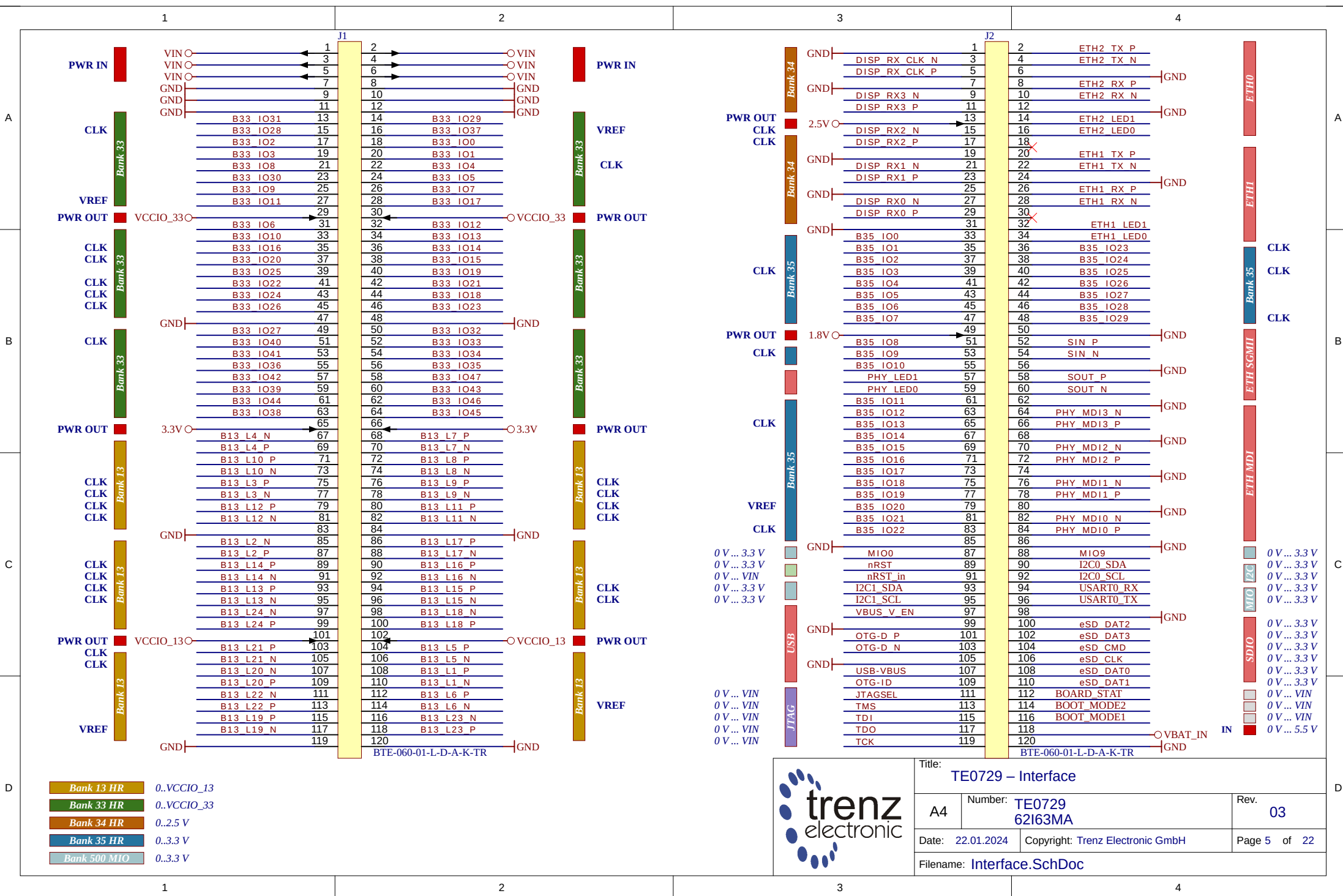
03

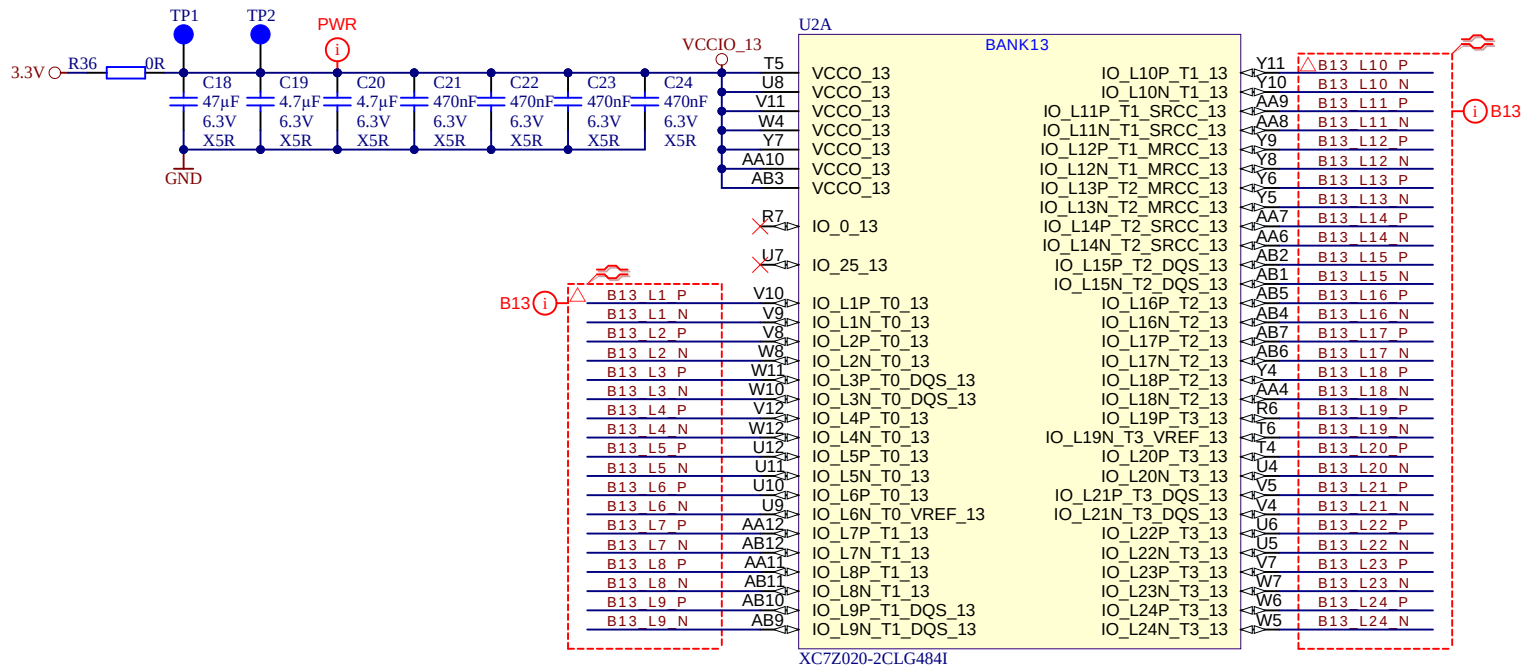
Date: 22.01.2024

Copyright: Trenz Electronic GmbH

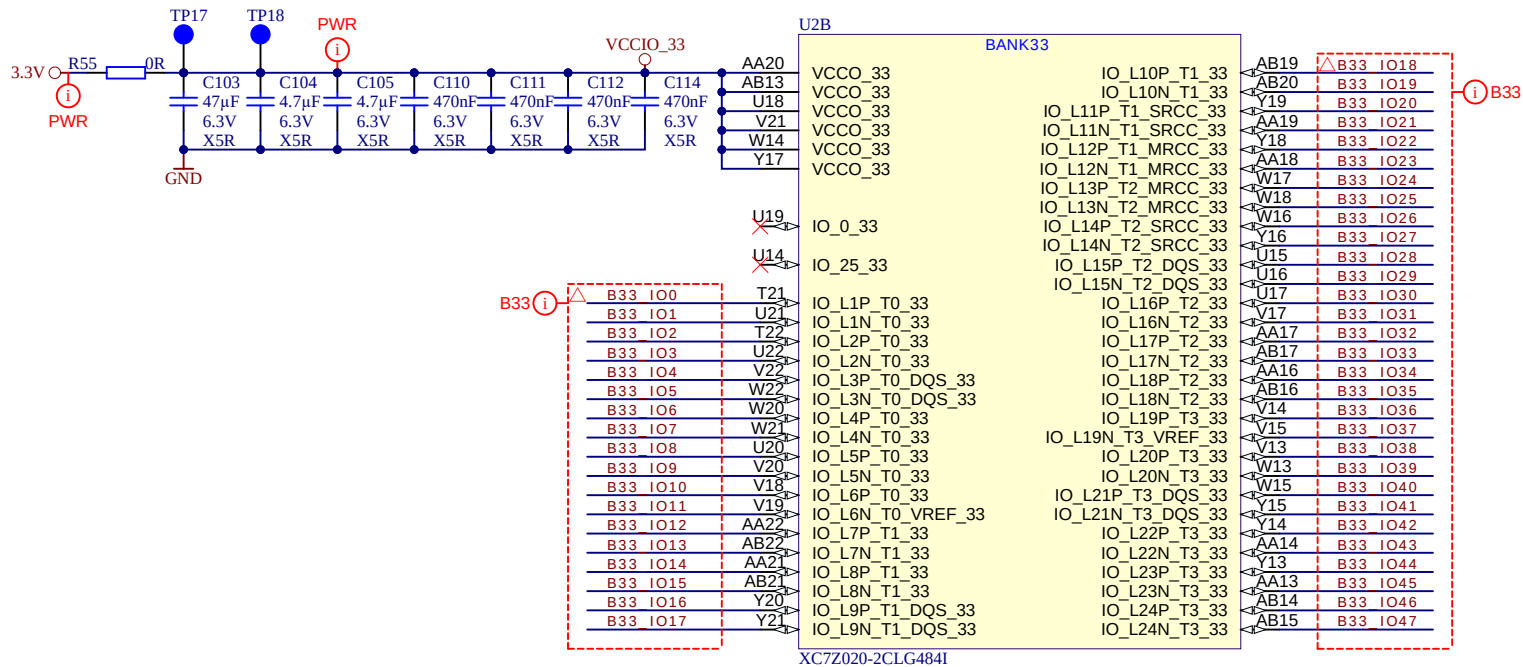
Page 3 of 22

Filename: TE0729.SchDoc

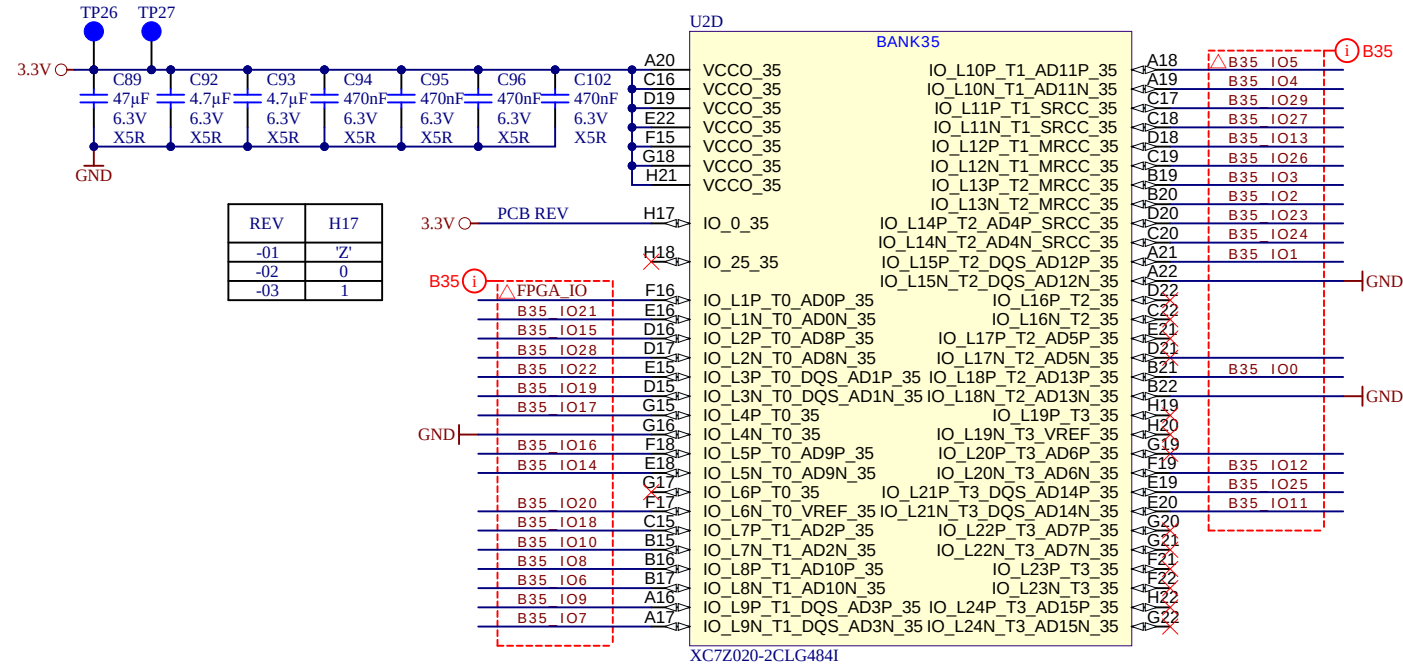




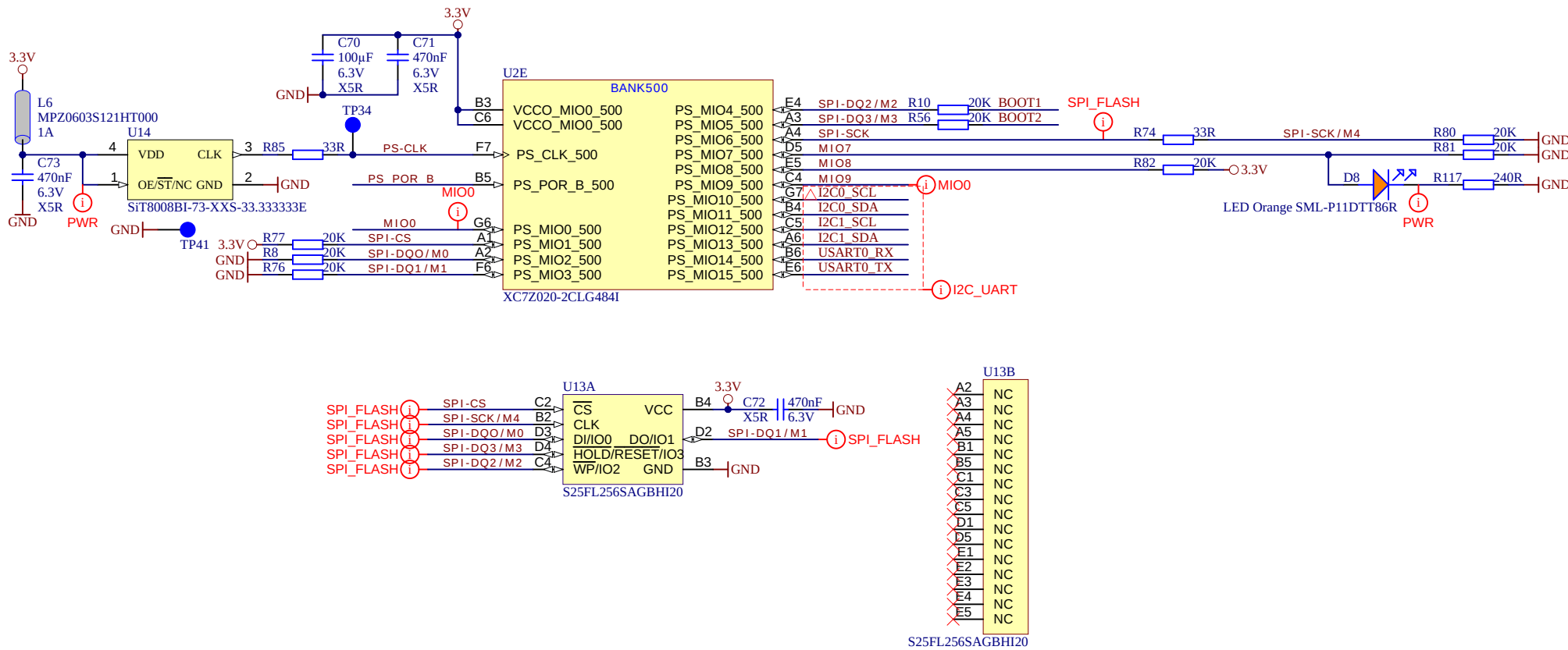
		Title: TE0729 – ZYNQ_B13	
		A4	Number: TE0729 62I63MA
Date: 22.01.2024		Copyright: Trenz Electronic GmbH	
Filename: B13.SchDoc		Page 6 of 22	



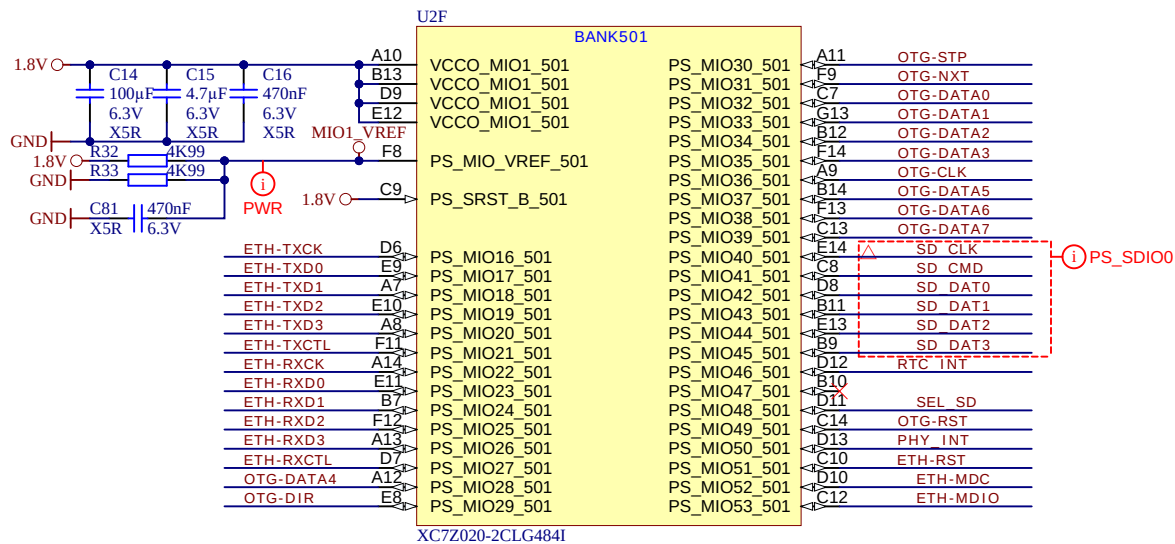
		Title: TE0729 – ZYNQ_B33	
		A4	Number: TE0729 62I63MA
Date: 22.01.2024		Copyright: Trenz Electronic GmbH	
Filename: B33.SchDoc		Page 7 of 22	



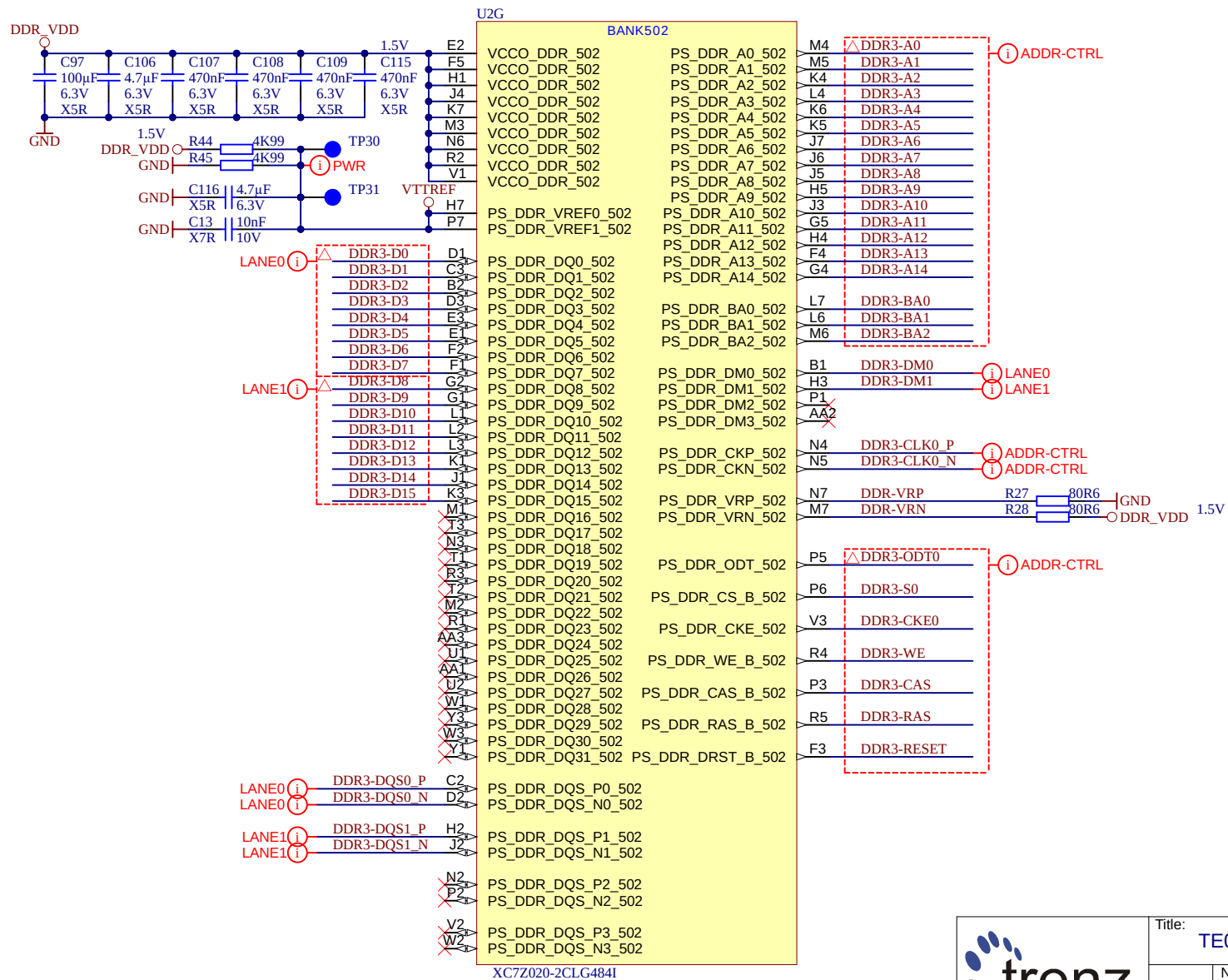
Title: TE0729 – ZYNQ_B35		
A4	Number: TE0729 62I63MA	Rev. 03
Date: 22.01.2024	Copyright: Trenz Electronic GmbH	Page 9 of 22
Filename: B35.SchDoc		

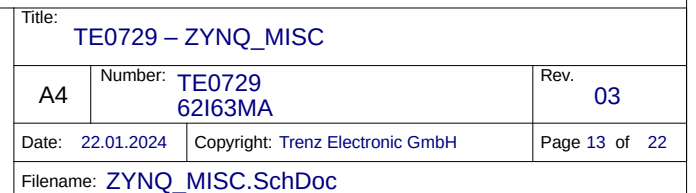
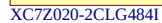


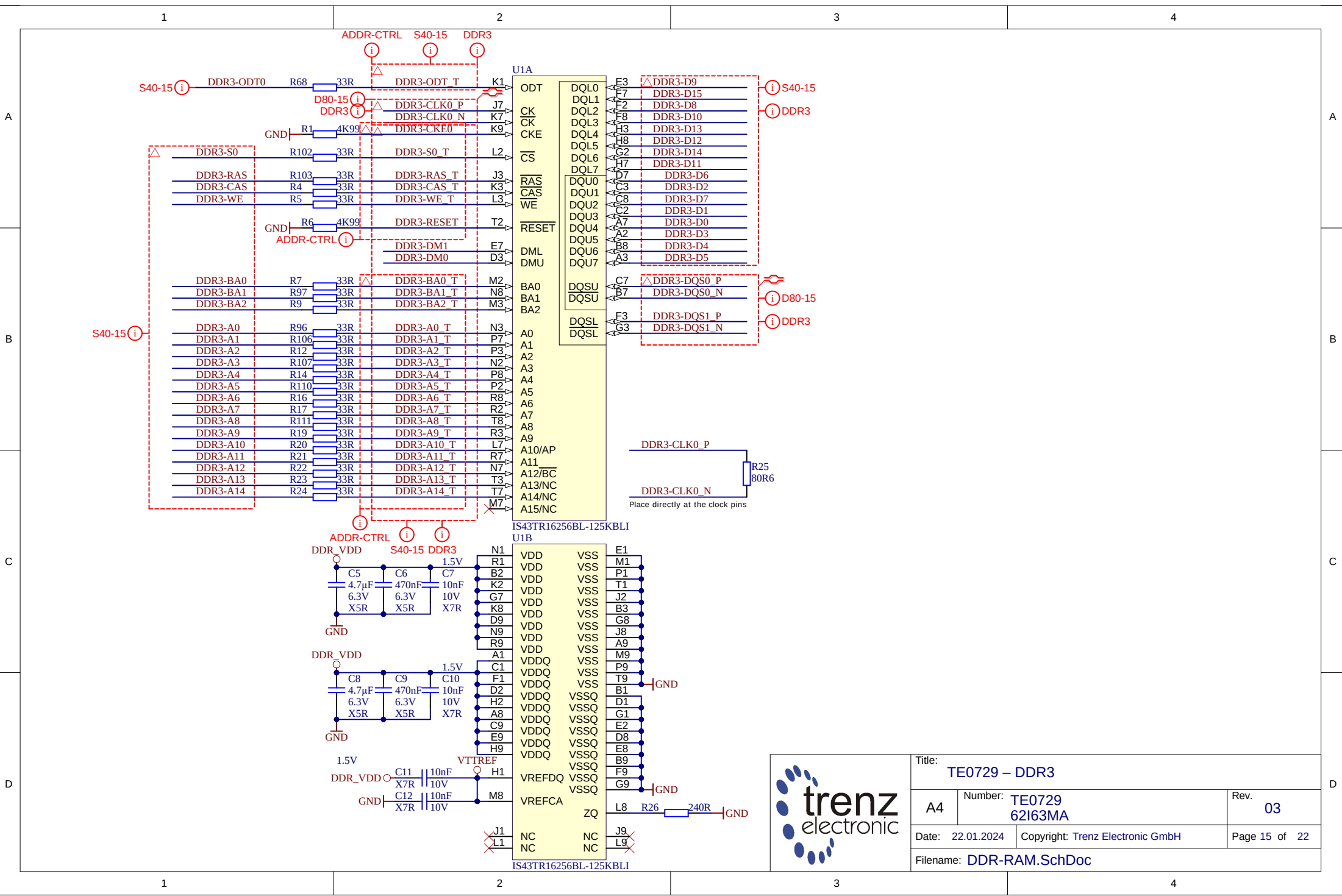
		Title: TE0729 – ZYNQ_MIO_B500	
		A4	Number: TE0729 62I63MA
Date: 22.01.2024		Copyright: Trenz Electronic GmbH	
Filename: MIO_B500.SchDoc		Page 10 of 22	



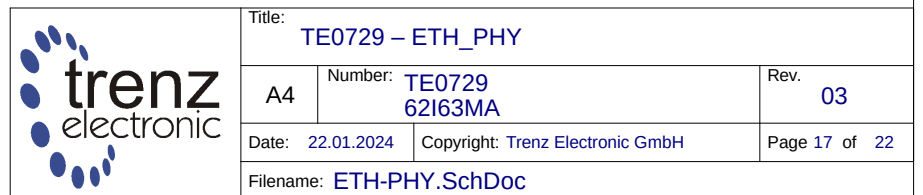
		Title: TE0729 – ZYNQ_MIO_B501	
		A4	Number: TE0729 62I63MA
Date: 22.01.2024		Copyright: Trenz Electronic GmbH	
Filename: MIO_B501.SchDoc		Page 11 of 22	
		Rev. 03	







Title: TE0729 – DDR3			
A4	Number: TE0729 62I63MA		Rev. 03
Date: 22.01.2024	Copyright: Trenz Electronic GmbH		Page 15 of 22
Filename: DDR-RAM.SchDoc			



1

2

3

4

A

A

B

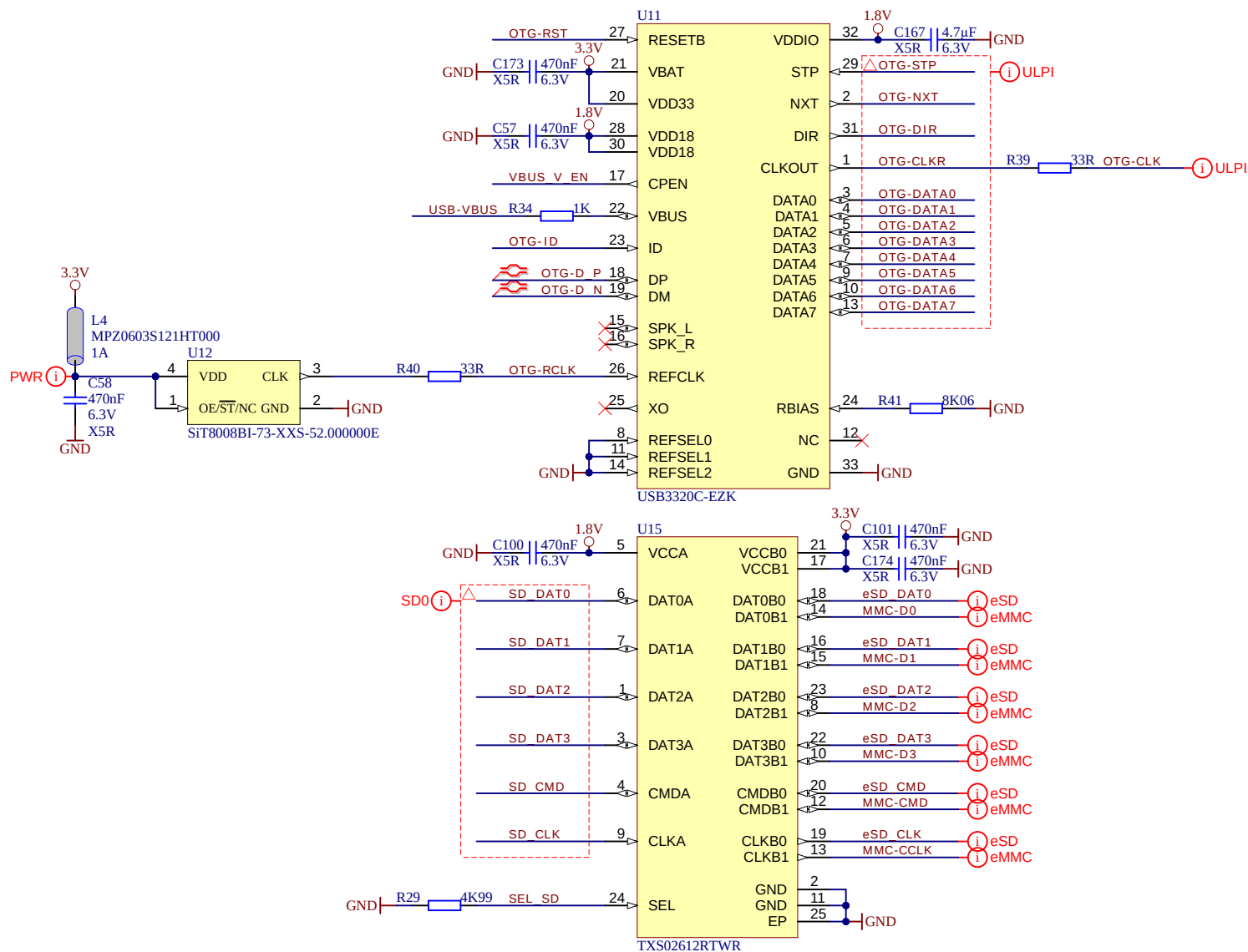
B

C

C

D

D



Title: TE0729 – USB_PHY		
A4	Number: TE0729 62I63MA	Rev. 03
Date: 22.01.2024	Copyright: Trenz Electronic GmbH	Page 19 of 22
Filename: USB-PHY.SchDoc		

1

2

3

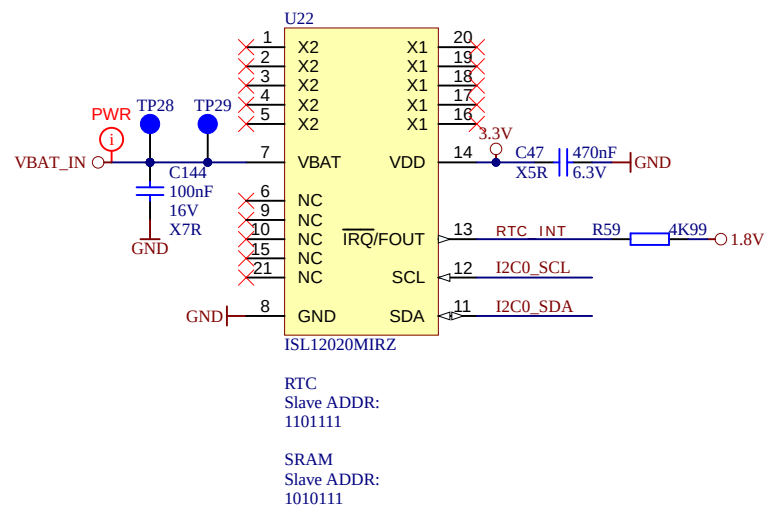
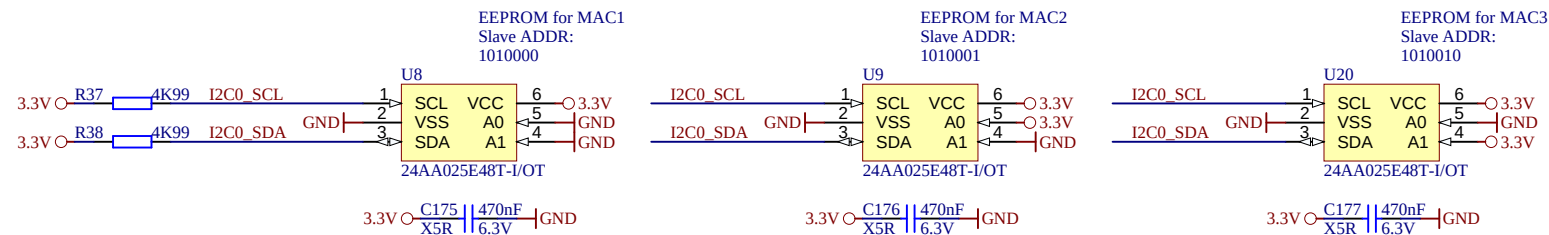
4

1

2

3

4



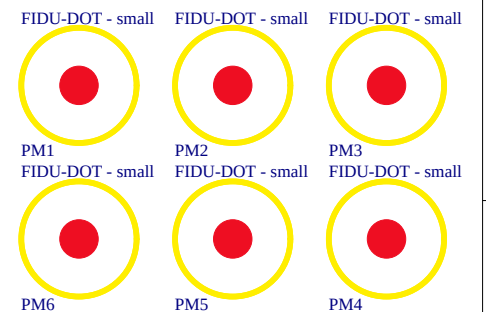
Title: TE0729 – RTC		
A4	Number: TE0729 62I63MA	Rev. 03
Date: 22.01.2024	Copyright: Trenz Electronic GmbH	Page 20 of 22
Filename: SENSOR-RTC.SchDoc		

1

2

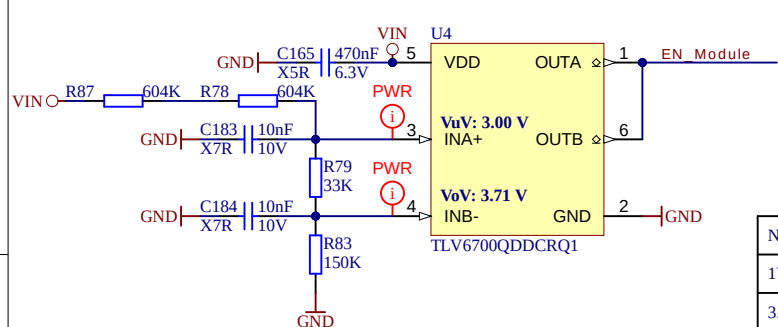
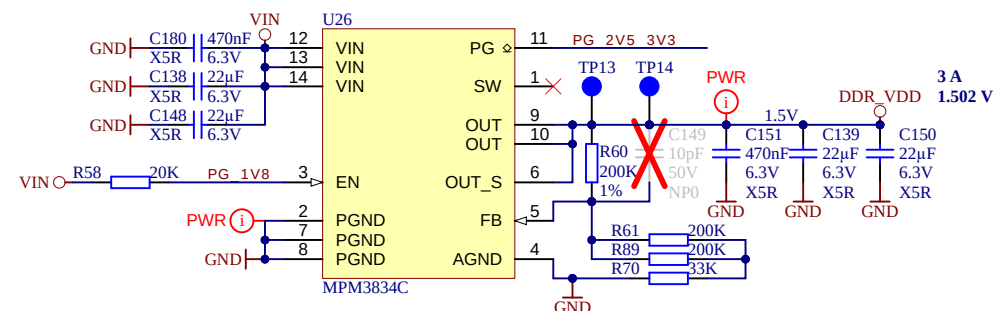
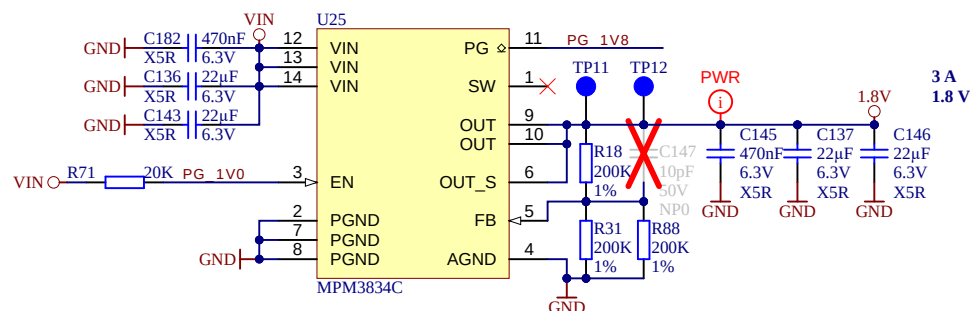
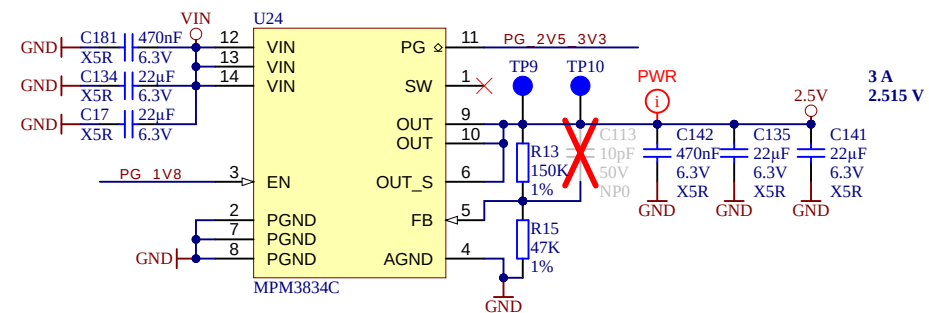
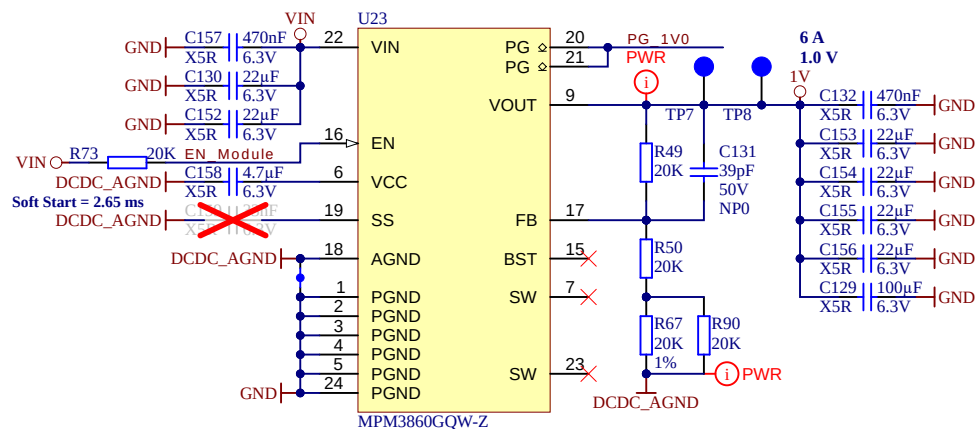
3

4

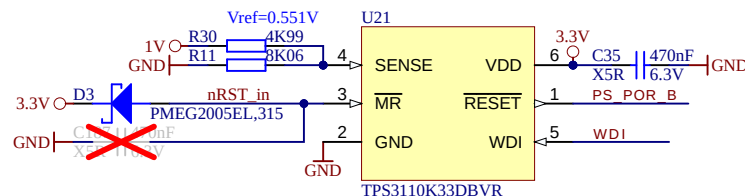
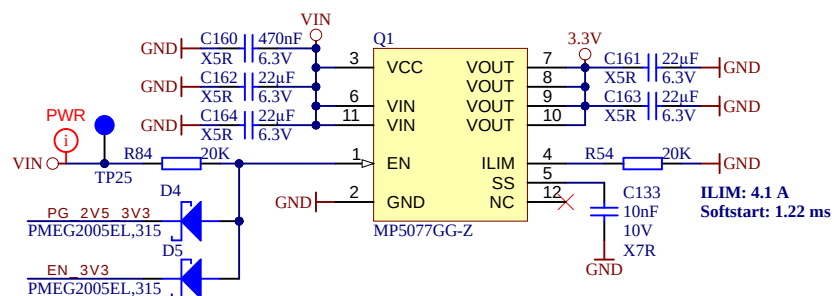


Title: TE0729 – CPLD			
A4	Number: TE0729 62I63MA		Rev. 03
Date: 22.01.2024		Copyright: Trenz Electronic GmbH	Page 21 of 22
Filename: CPLD.SchDoc			





Net Name	Voltage Rail	Low Detect
1V	1.0 V	0.892 V
3.3V	3.3 V	2.941 V



Title:	TE0729 – Power
--------	----------------

A4	Number: TE0729 62I63MA
----	---------------------------

Date: 22.01.2024	Copyright: Trenz Electronic GmbH
------------------	----------------------------------

Filename: Power.SchDoc

Rev.	03
------	----

Page 22 of 22