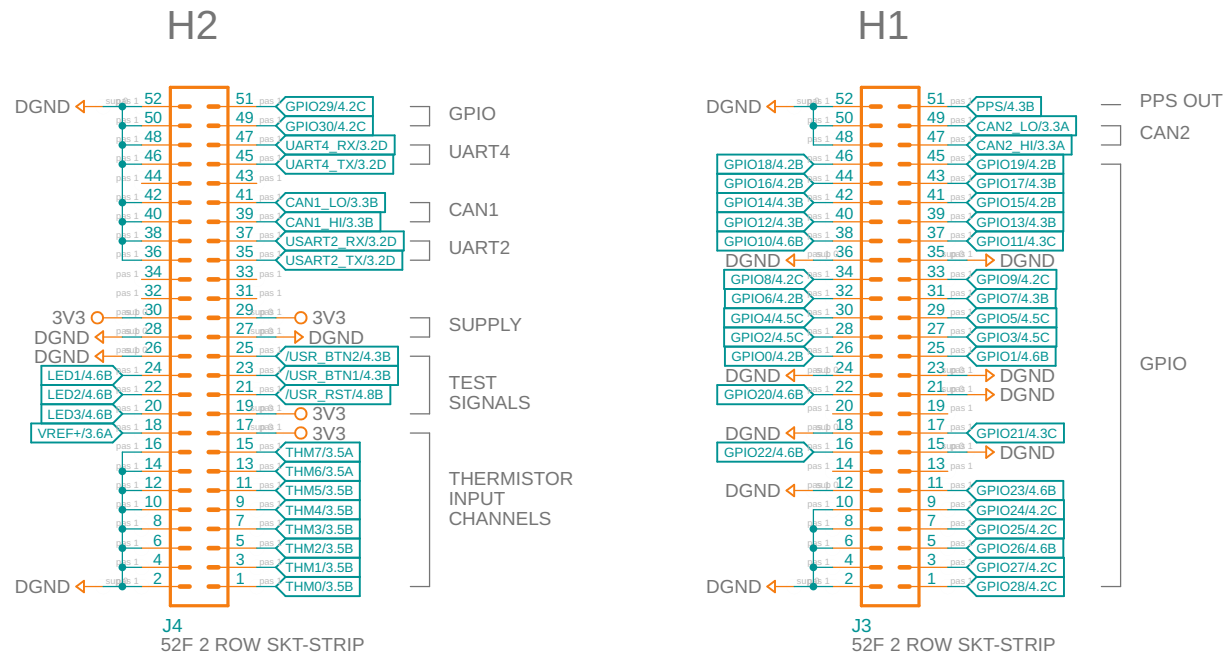
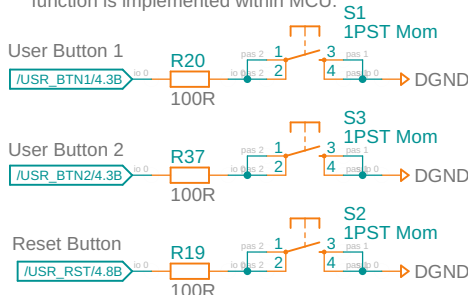


## Main Connectors (PC104)

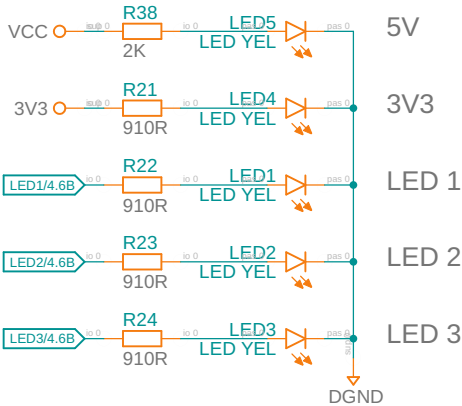


## Push Buttons

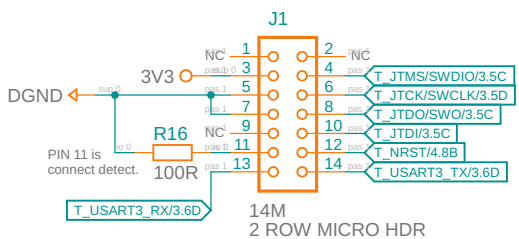
Design assumes that pull-up resistor function is implemented within MCU.



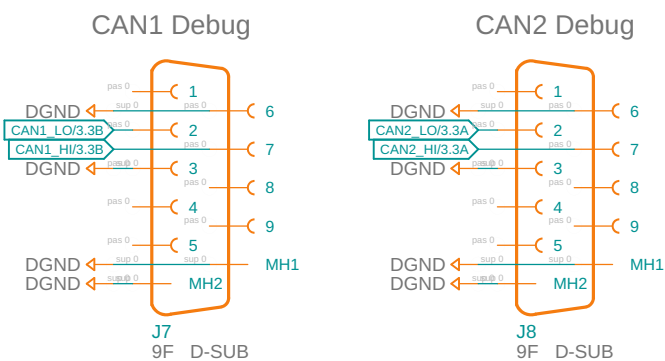
## Status LEDs



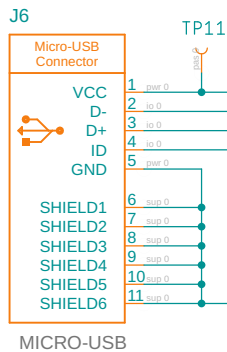
## ST-Link Connector



## CAN Breakout Connectors

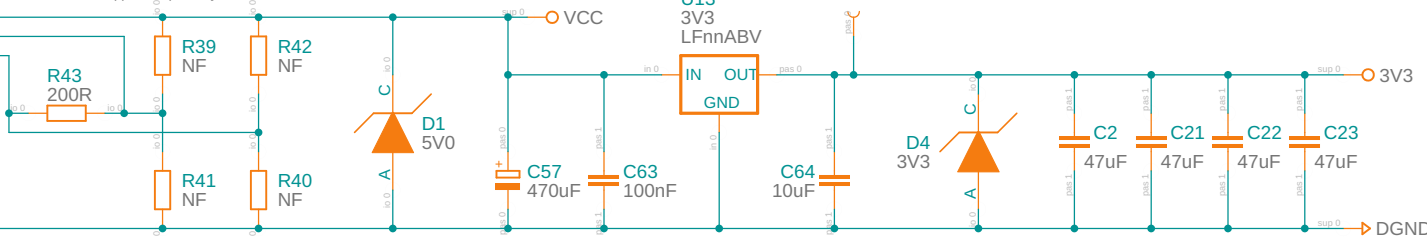


## USB Power Input Connector

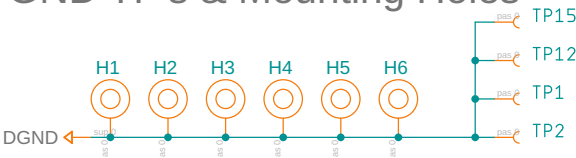




## 3.3V low Dropout Regulator

Resistors are to enable charge port. Typically fit R5=200R for EU / Chinese compatibility. For Apple compatibility use the other resistors.

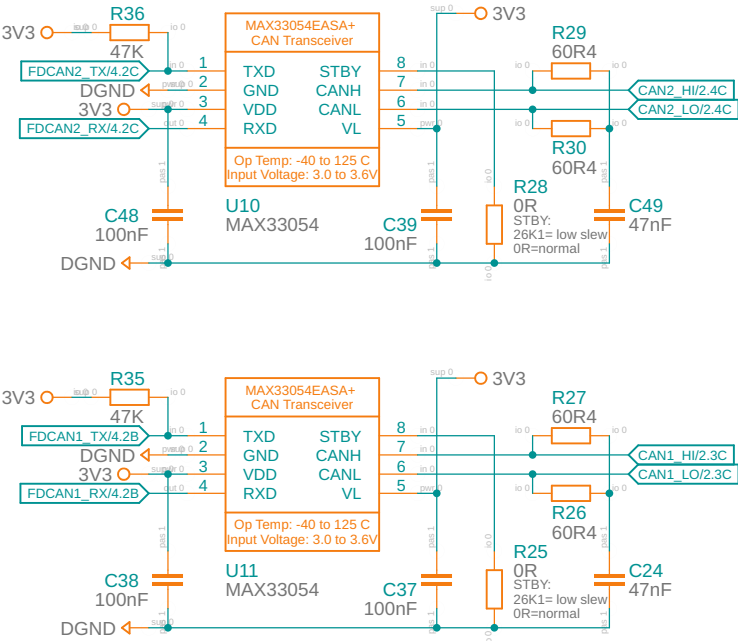


## GND TP's & Mounting Holes

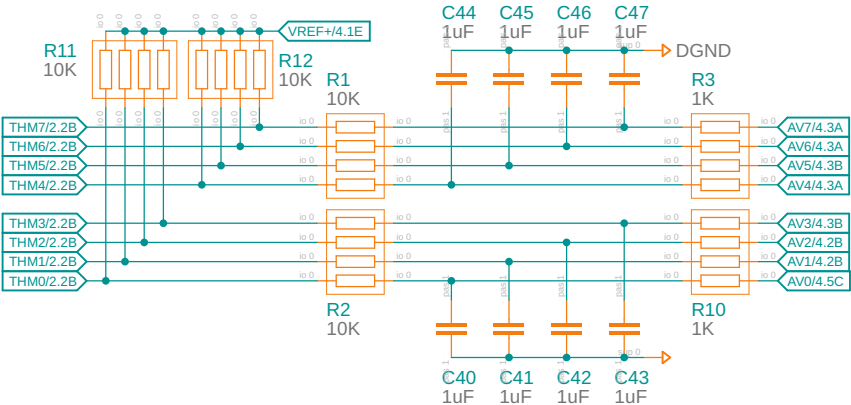


Engineer: KM	Schematic Title: OSSAT OBC Dev Board Schematic v269
Reviewer: VA	Variant:
Date: 02 NOV 2022	Company Name: KISPE Space Systems Ltd
 creative commons	Drawing Number: KS-SCH-01466
 OPEN SOURCE SATELLITE	Version Number: 01
License & Date: CC BY-SA 4.0: (2022) Open Source Satellite	Sheet Number: 2/6

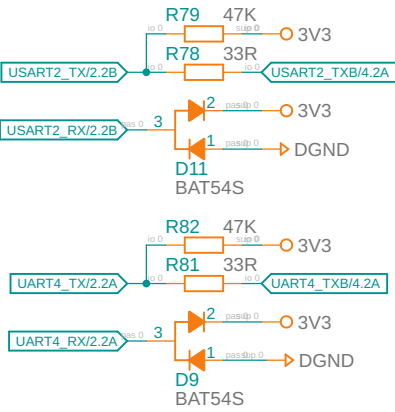
CAN Bus Interfaces



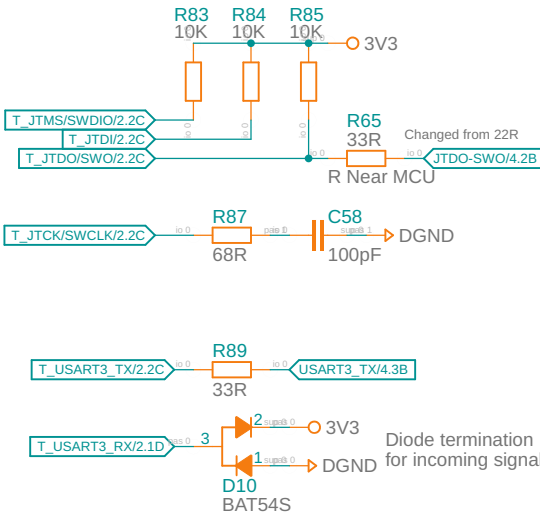
Thermistor Temperature Processing




UART Interfaces

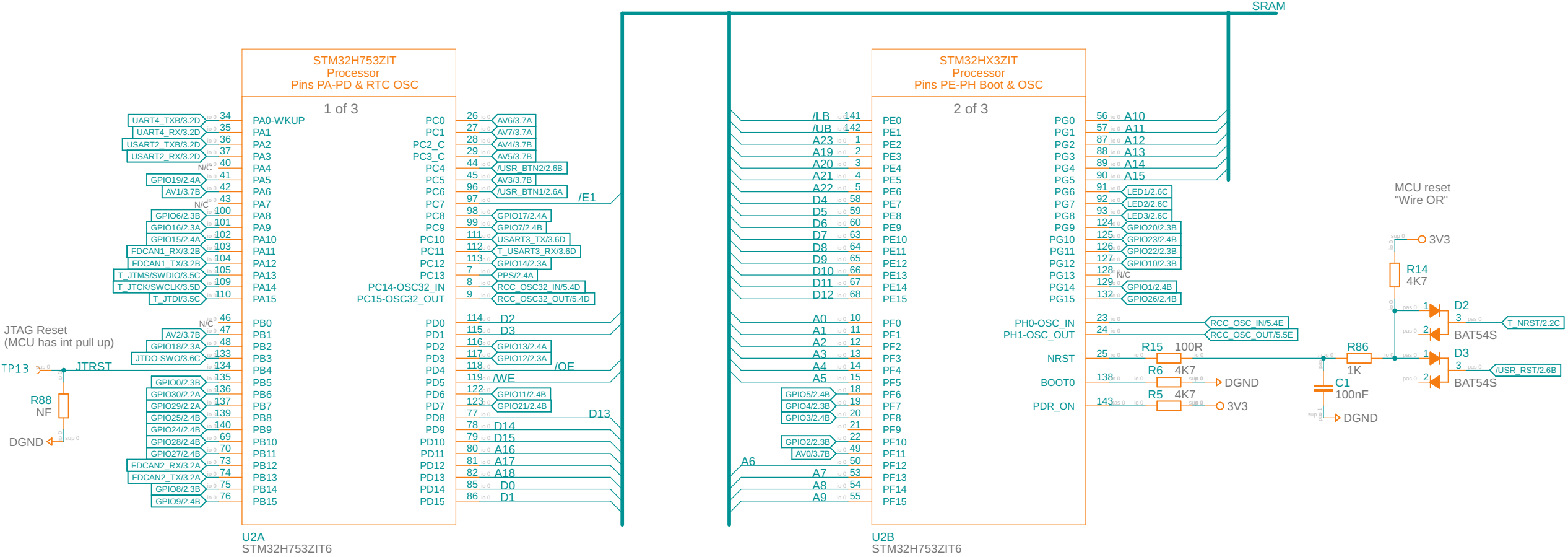


JTAG & Debug Terminations

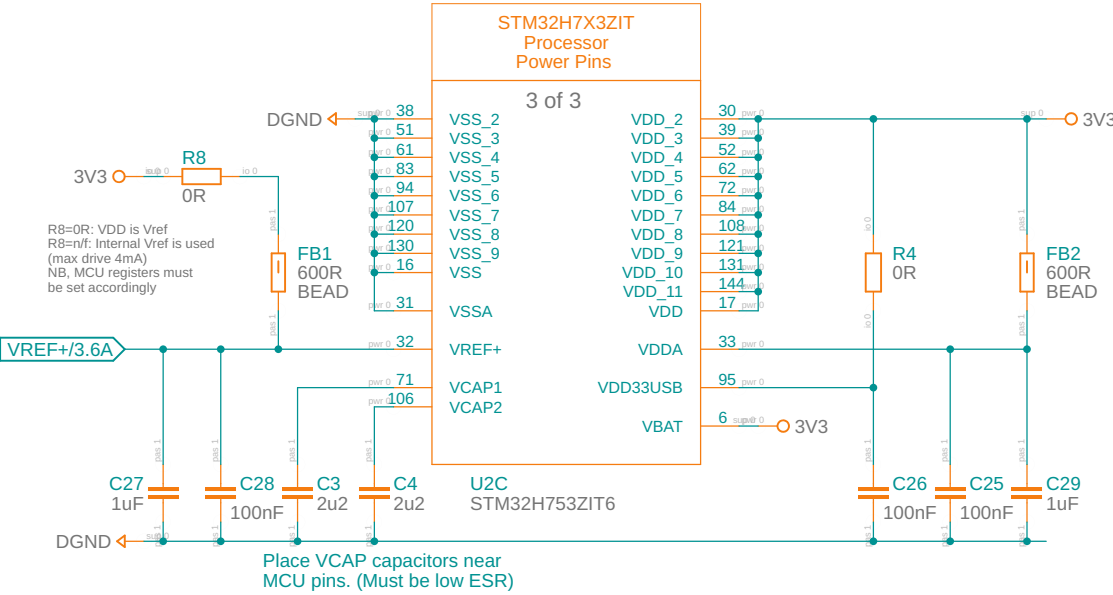


Engineer: KM	Schematic Title: OSSAT OBC Dev Board Schematic v269
Reviewer: VA	Variant:
Date: 02 NOV 2022	Company Name: KISPE Space Systems Ltd
 License & Date: CC BY-SA 4.0: (2022) Open Source Satellite	Drawing Number: KS-SCH-01466
	Version Number: 01
	Sheet Number: 3/6

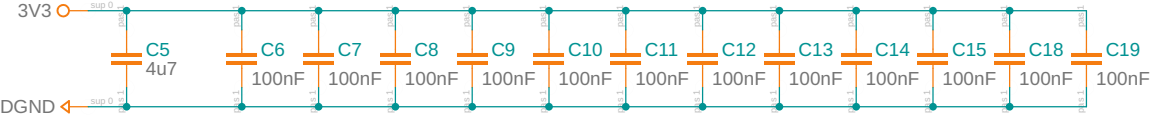
STM32 IO Pins




STM32 Power Pins

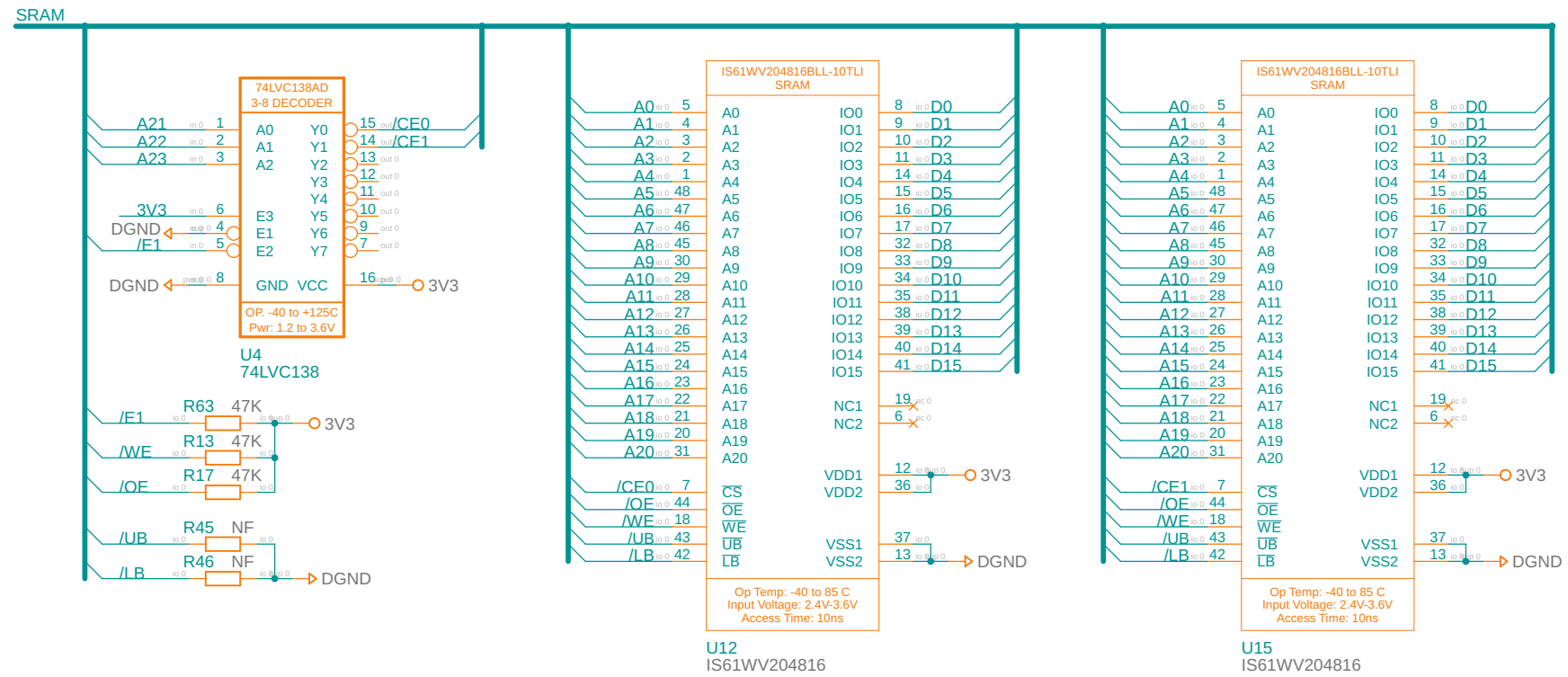
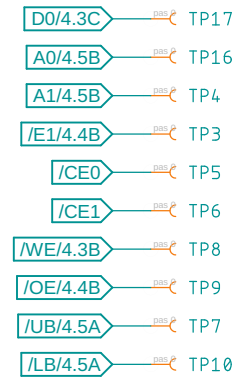


Decoupling for MCU VDD pins, including VBAT.



Engineer: KM	Schematic Title: OSSAT OBC Dev Board Schematic v269
Reviewer: VA	Variant:
Date: 02 NOV 2022	Company Name: KISPE Space Systems Ltd
 License & Date: CC BY-SA 4.0: (2022) Open Source Satellite	Drawing Number: KS-SCH-01466
	Version Number: 01
	Sheet Number: 4/6

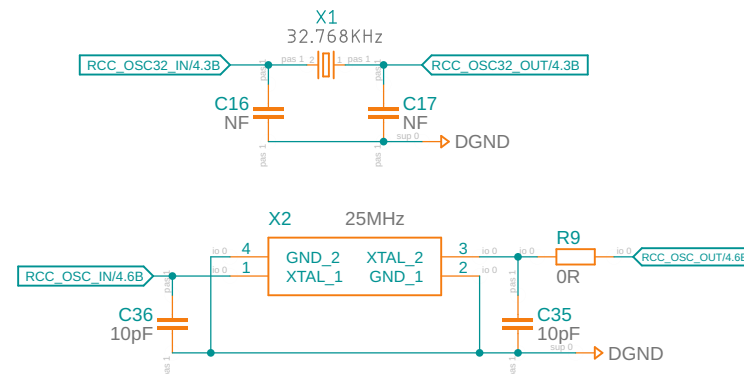
### SRAM Test Points



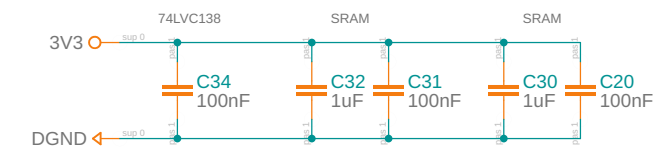
Note: Each memory chip has different /CEN line


### MCU Oscillators

R & C values may need tuning




### Decoupling for SRAM and its Decoding



Engineer: KM	Schematic Title: OSSAT OBC Dev Board Schematic v269
Reviewer: VA	Variant:
Date: 02 NOV 2022	Company Name: KISPE Space Systems Ltd
 License & Date: CC BY-SA 4.0: (2022) Open Source Satellite	Drawing Number: KS-SCH-01466
	Version Number: 01
	Sheet Number: 5/6

	1	2	3	4	5	6
	Sheet Title: Revision History					
A						
B						
C						
D						
	1	2	3	4	5	6

Engineer: KM	Schematic Title: OSSAT OBC Dev Board Schematic v2
Reviewer: VA	Variant:
Date: 02 NOV 2022	Company Name: KISPE Space Systems Ltd
 creative commons OPEN SOURCE SATELLITE License & Date: CC BY-SA 4.0. (2022) Open Source Satellite	Drawing Number: KS-SCH-01466
	Version Number: 01
	Sheet Number: 6/6