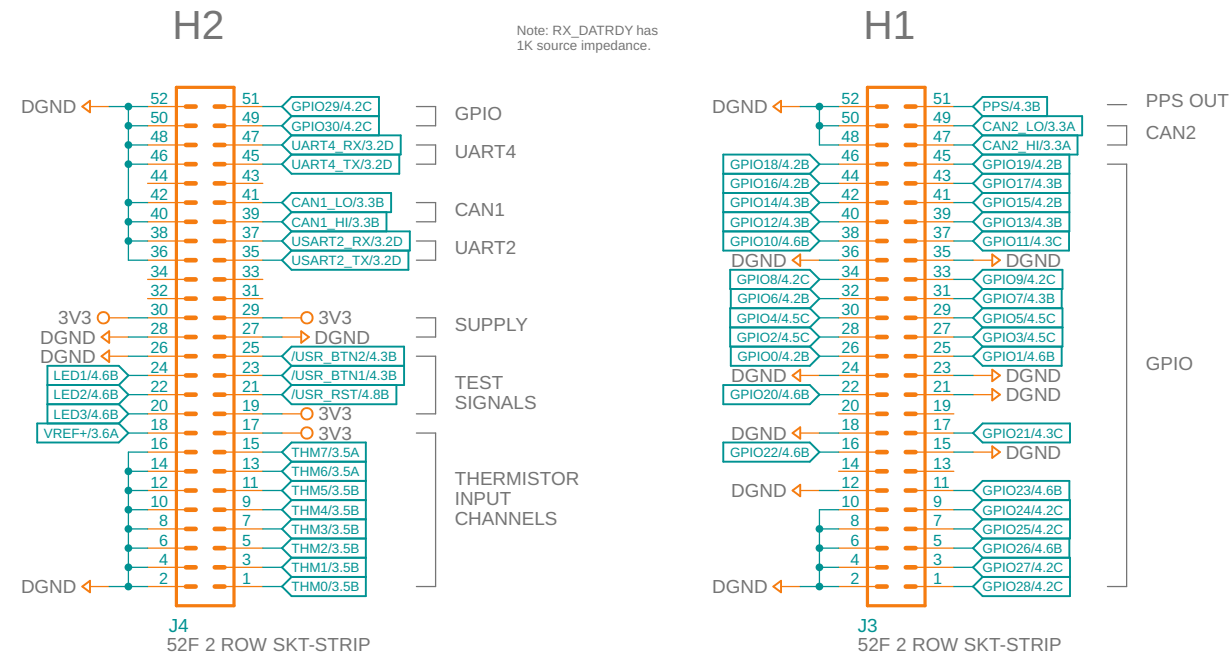
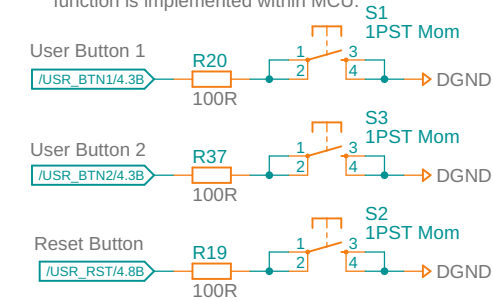


## Main Connectors (PC104)

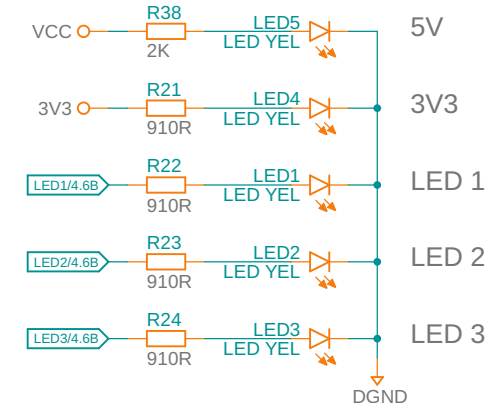


## Push Buttons

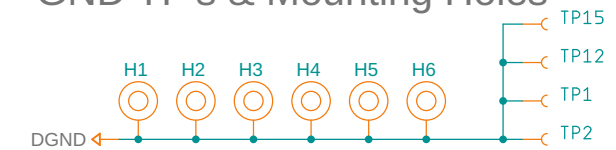
Design assumes that pull-up resistor function is implemented within MCU.



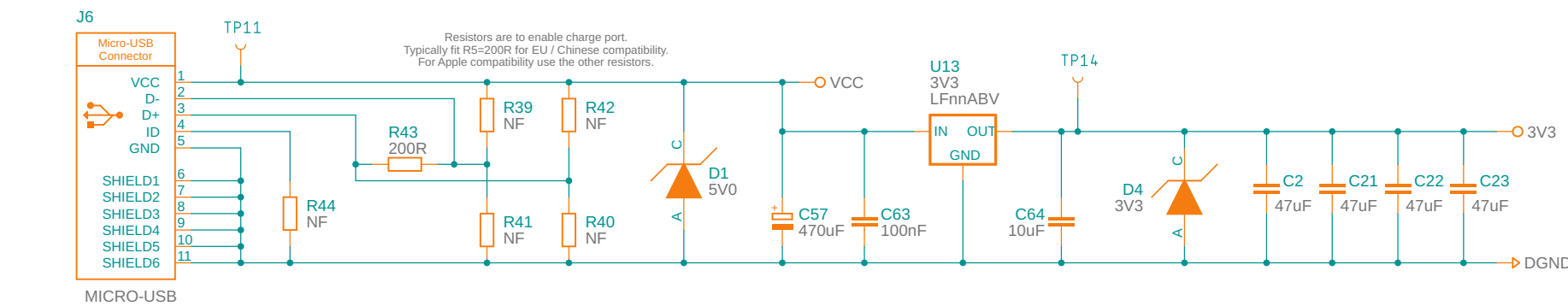
## Status LEDs



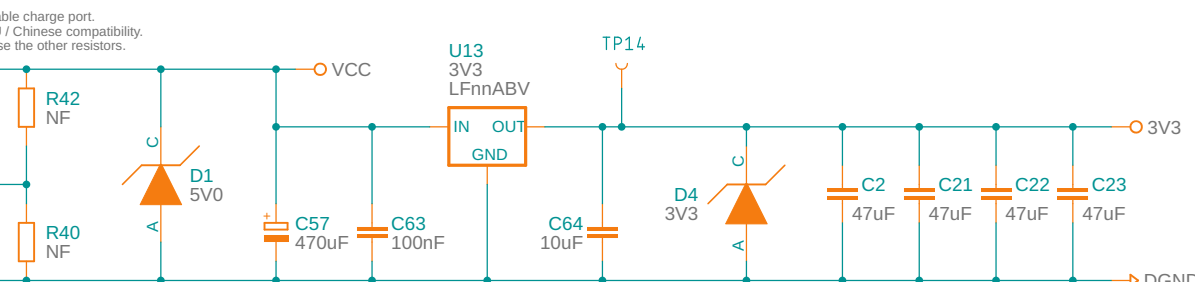
## GND TP's & Mounting Holes




## USB Power Input Connector

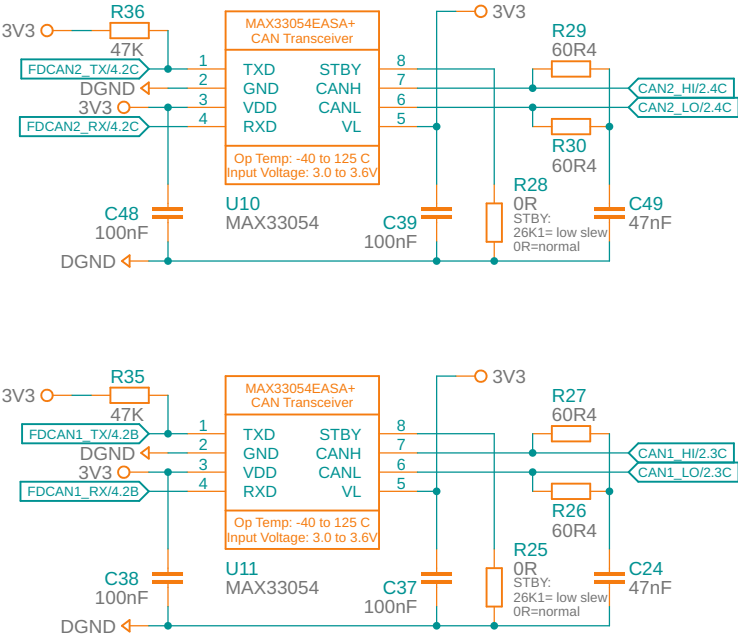


### 3.3V low Dropout Regulator

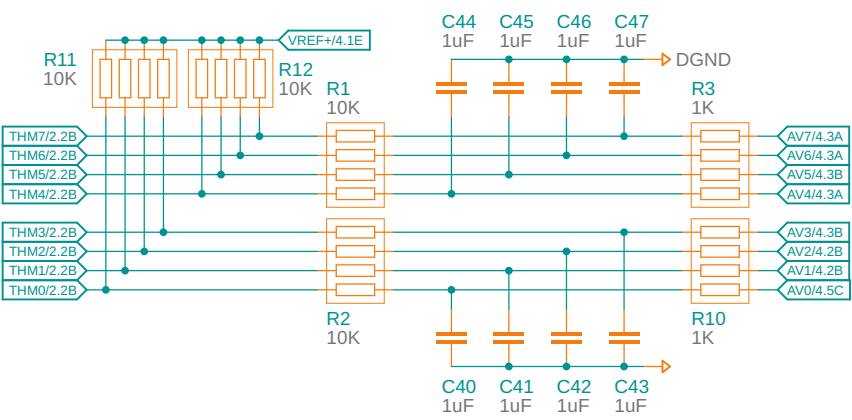


Engineer: KM	Schematic Title: OSSAT Sw Dev Board Schematic
Reviewer: VA	Variant:
Date: 02 NOV 2022	Company Name: KISPE Space Systems Ltd
 License & Date: CC BY-SA 4.0 (2022) Open Source Satellite	Drawing Number: KS-SCH-01466
	Version Number: 01
	Sheet Number: 2/6

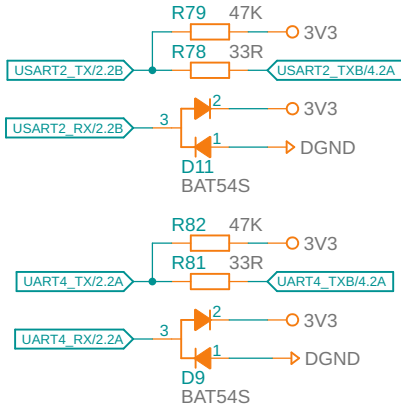
CAN Bus Interfaces



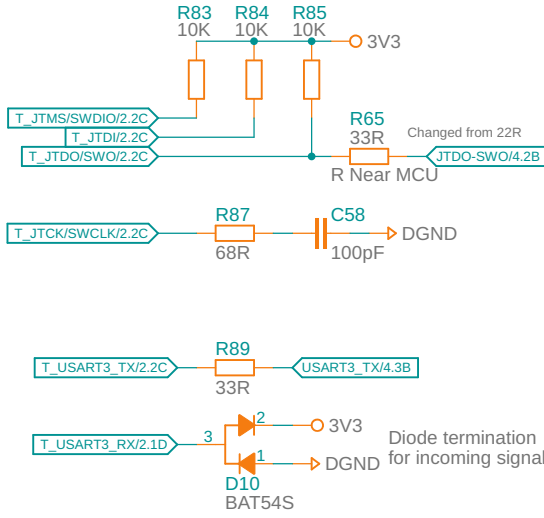
Thermistor Temperature Processing




UART Interfaces



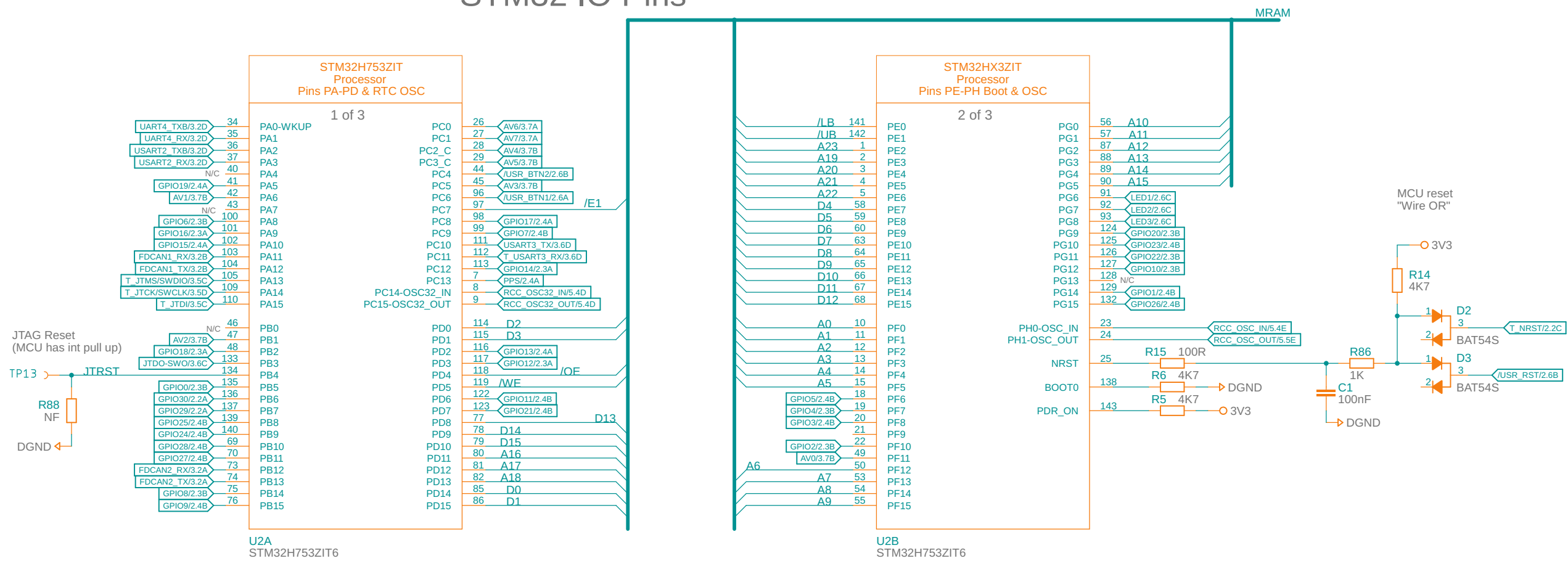
JTAG & Debug Terminations



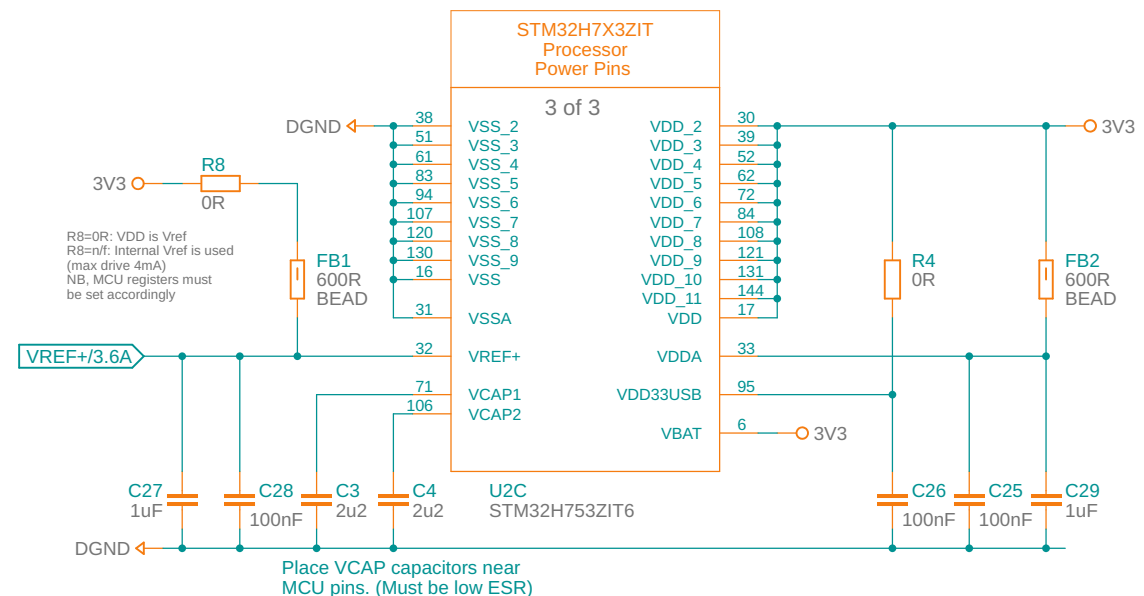
Engineer: KM	Schematic Title: OSSAT Sw Dev Board Schematic
Reviewer: VA	Variant:
Date: 02 NOV 2022	Company Name: KISPE Space Systems Ltd
 License & Date: CC BY-SA 4.0: (2022) Open Source Satellite	Drawing Number: KS-SCH-01466
	Version Number: 01
	Sheet Number: 3/6

Sheet Title: MCU

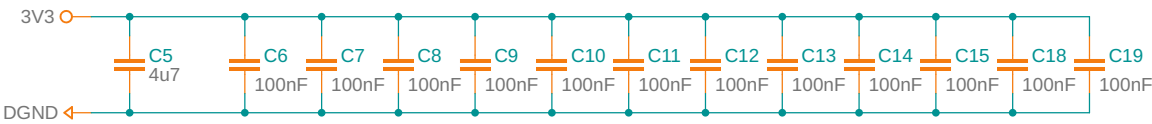
# STM32 IO Pins




# STM32 Power Pins



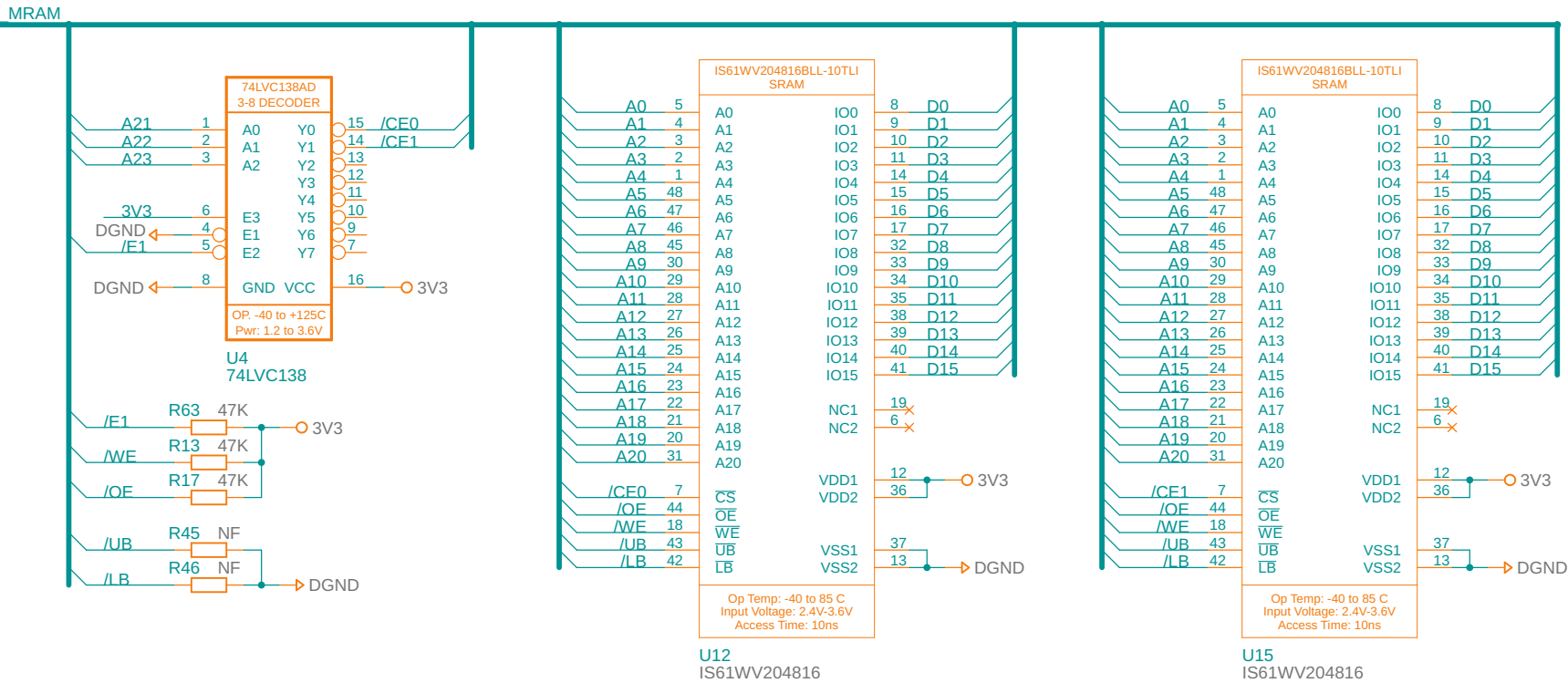
# Decoupling for MCU VDD pins, including VBAT.



Engineer: KM	Schematic Title: OSSAT Sw Dev Board Schematic
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

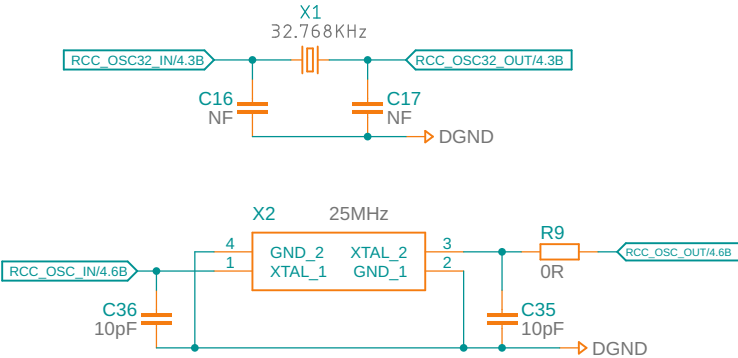
- D0/4.3C TP17
- A0/4.5B TP16
- A1/4.5B TP4
- /E1/4.4B TP3
- /CE0 TP5
- /CE1 TP6
- /WE/4.3B TP8
- /OE/4.4B TP9
- /UB/4.5A TP7
- /LB/4.5A TP10



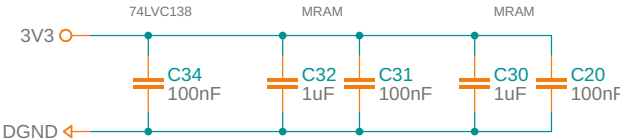
Note: Each memory chip has different /CEn line

MCU Oscillators

R & C values may need tuning



Decoupling for SRAM and its Decoding



Engineer: KM	Schematic Title: OSSAT Sw Dev Board Schematic
Reviewer: VA	Variant:
Date: 02 NOV 2022	Company Name: KISPE Space Systems Ltd
	Drawing Number: KS-SCH-01466
	Version Number: 01
	Sheet Number: 5/6

