MIMXRT1064 MCU Module – TABLE OF CONTENTS

PAGE 2 BLOCK DIAGRAM

PAGE 3 SUPPLIES & PMIC

PAGE 4 MCU POWER & CRYSTALS

PAGE 5 MCU GPIO & BUS

PAGE 6 MEMORY

PAGE 7 MEZZANNINE

Joël Ucedo

Sheet: /
File: MIMXRT1064 MCU Module.kicad_sch

Title: MIMXRT1064 MCU Module

Size: A3 | Date: 2023-05-23 | Rev: 0

KiCad E.D.A. kicad (6.0.7) | Id: 1/7

2 : BLOCK DIAGRAM

Joël Ucedo

Sheet: /BLOCK DIAGRAM/
File: block_diagram.kicad_sch

Title: MIMXRT1064 MCU Module

Size: A3	Date: 2023-05-23	**Rev: 0**
KiCad E.D.A. kicad (6.0.7)		Id: 2/7

SUPPLIES & PMIC ON CARRIER BOARDS

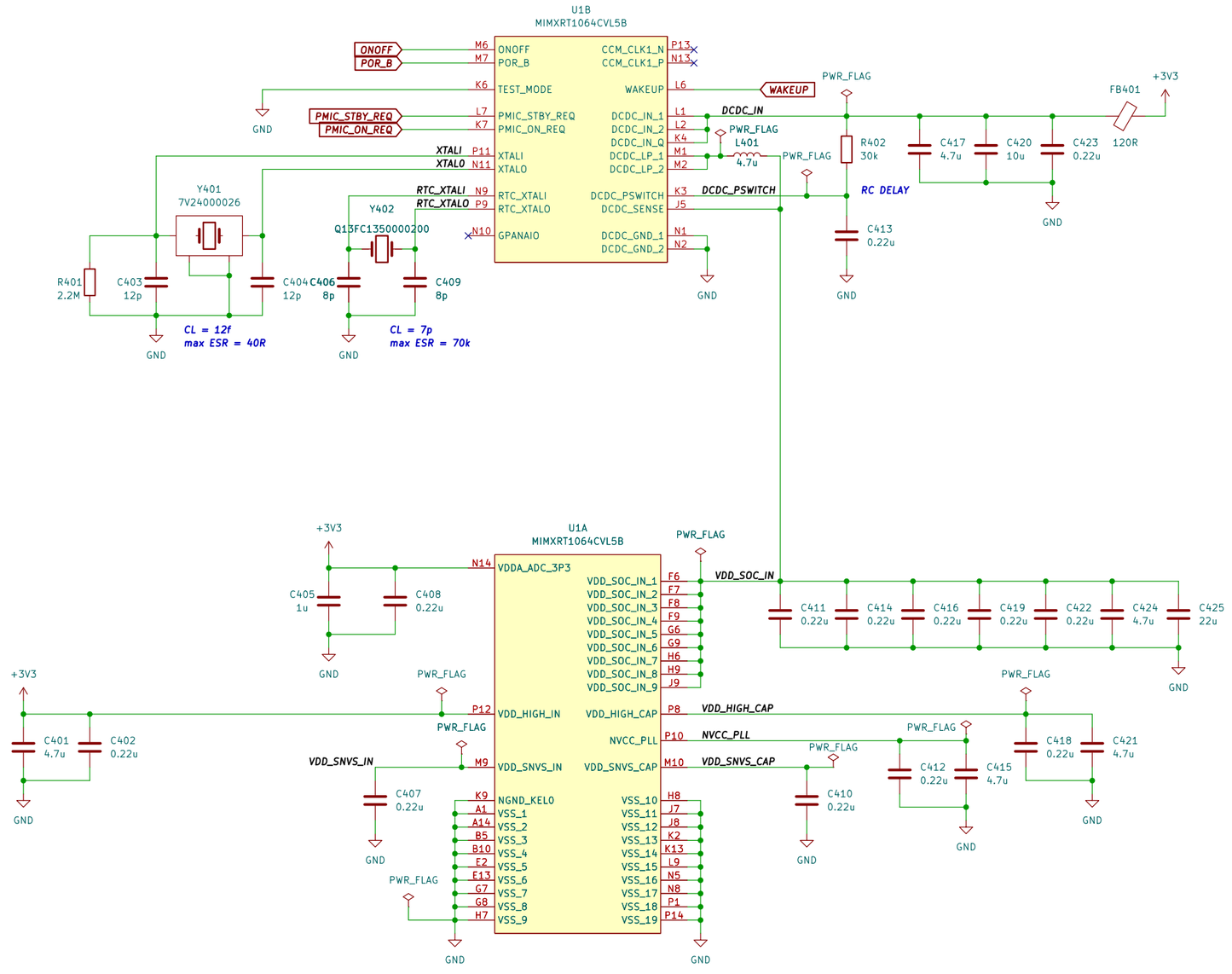
Joël Ucedo

Sheet: /SUPPLIES & PMIC/
File: supplies_pmic.kicad_sch

Title: MIMXRT1064 MCU Module

Size: A3	Date: 2023-05-23	**Rev: 0**
KiCad E.D.A. kicad (6.0.7)		Id: 3/7

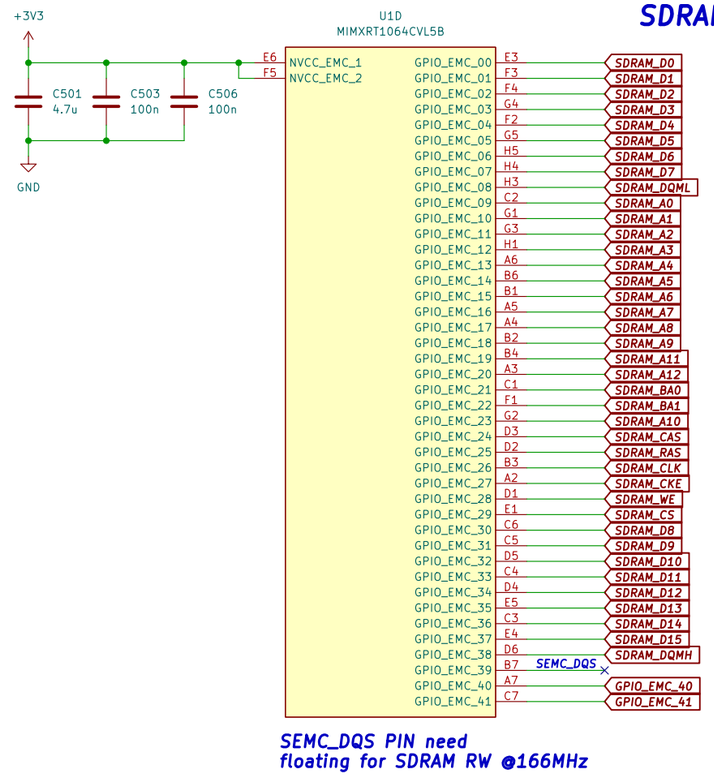
4 : MCU POWER & CRYSTALS



Joël Ucedo		
Sheet: /MCU POWER & CRYSTALS/		
File: pwrpin_crystals.kicad_sch		
Title: MIMXRT1064 MCU Module		
Size: A3	Date: 2023-05-23	**Rev: 0**
KiCad E.D.A. kicad (6.0.7)		Id: 4/7

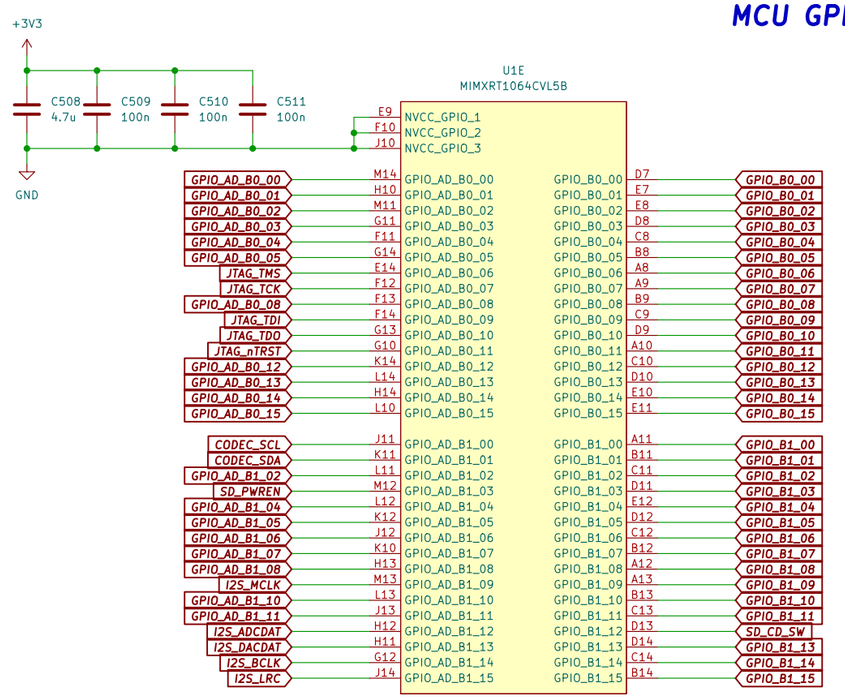
5 : MCU GPIO & BUS

SDRAM BUS



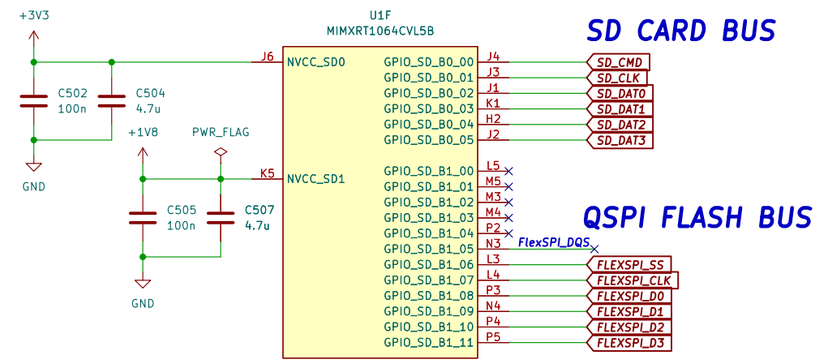
SEMC_DQS PIN need
floating for SDRAM RW @166MHz

MCU GPIO



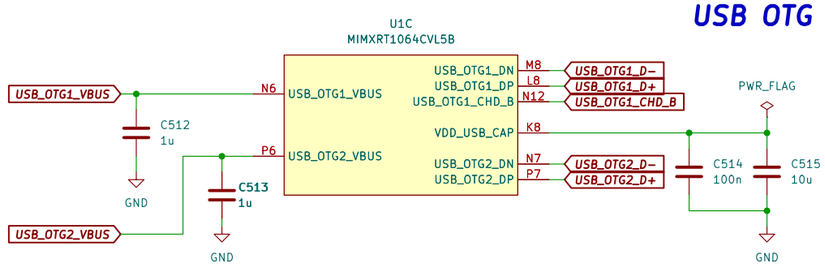
SD CARD BUS

QSPI FLASH BUS



FlexSPI_DQS PIN need
floating for QSPI Flash RW @133MHz

USB OTG



Joël Ucedo

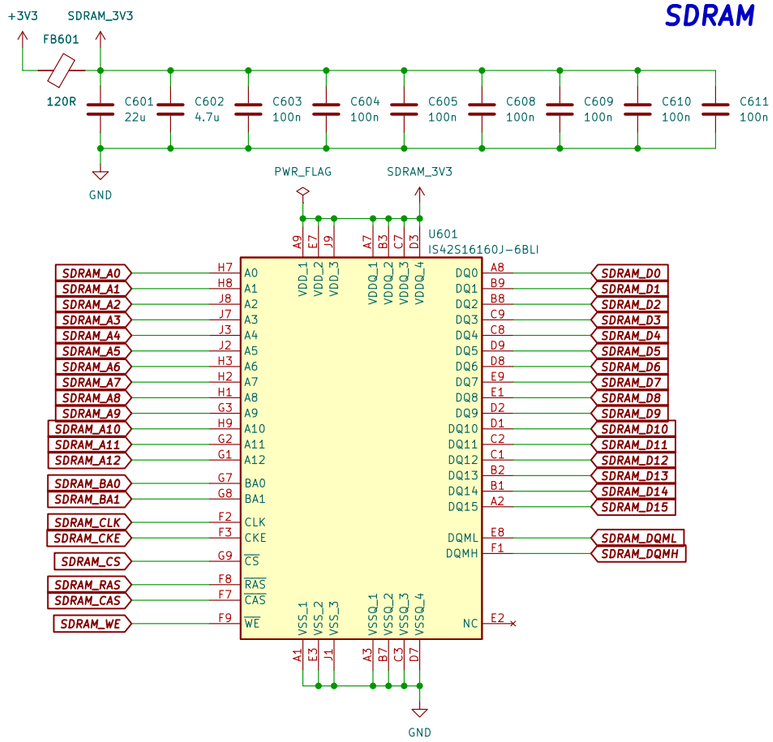
Sheet: /MCU GPIO & BUS/
File: gpio.kicad_sch

Title: MIMXRT1064 MCU Module

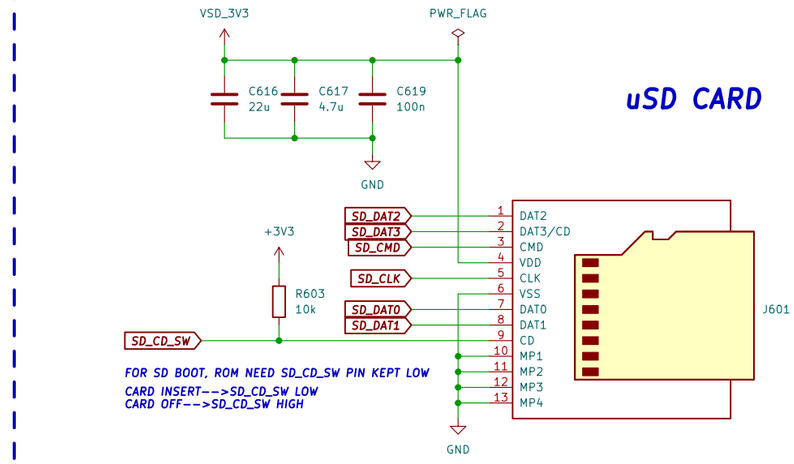
Size: A3	Date: 2023-05-23	**Rev: 0**
KiCad E.D.A. kicad (6.0.7)		Id: 5/7

6 : MEMORY

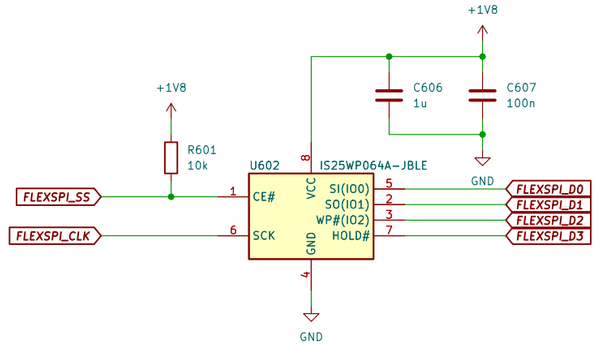
SDRAM



uSD CARD



QSPI FLASH



Joël Ucedo		
Sheet: /MEMORY /		
File: memory.kicad_sch		
Title: MIMXRT1064 MCU Module		
Size: A3	Date: 2023-05-23	**Rev: 0**
KiCad E.D.A. kicad (6.0.7)		Id: 6/7

7 : MEZZANNINE CONNECTOR

Joël Ucedo

Sheet: /MEZZANNINE/
File: mezzannine.kicad_sch

Title: MIMXRT1064 MCU Module

Size: A3	Date: 2023-05-23	**Rev: 0**
KiCad E.D.A. kicad (6.0.7)		Id: 7/7