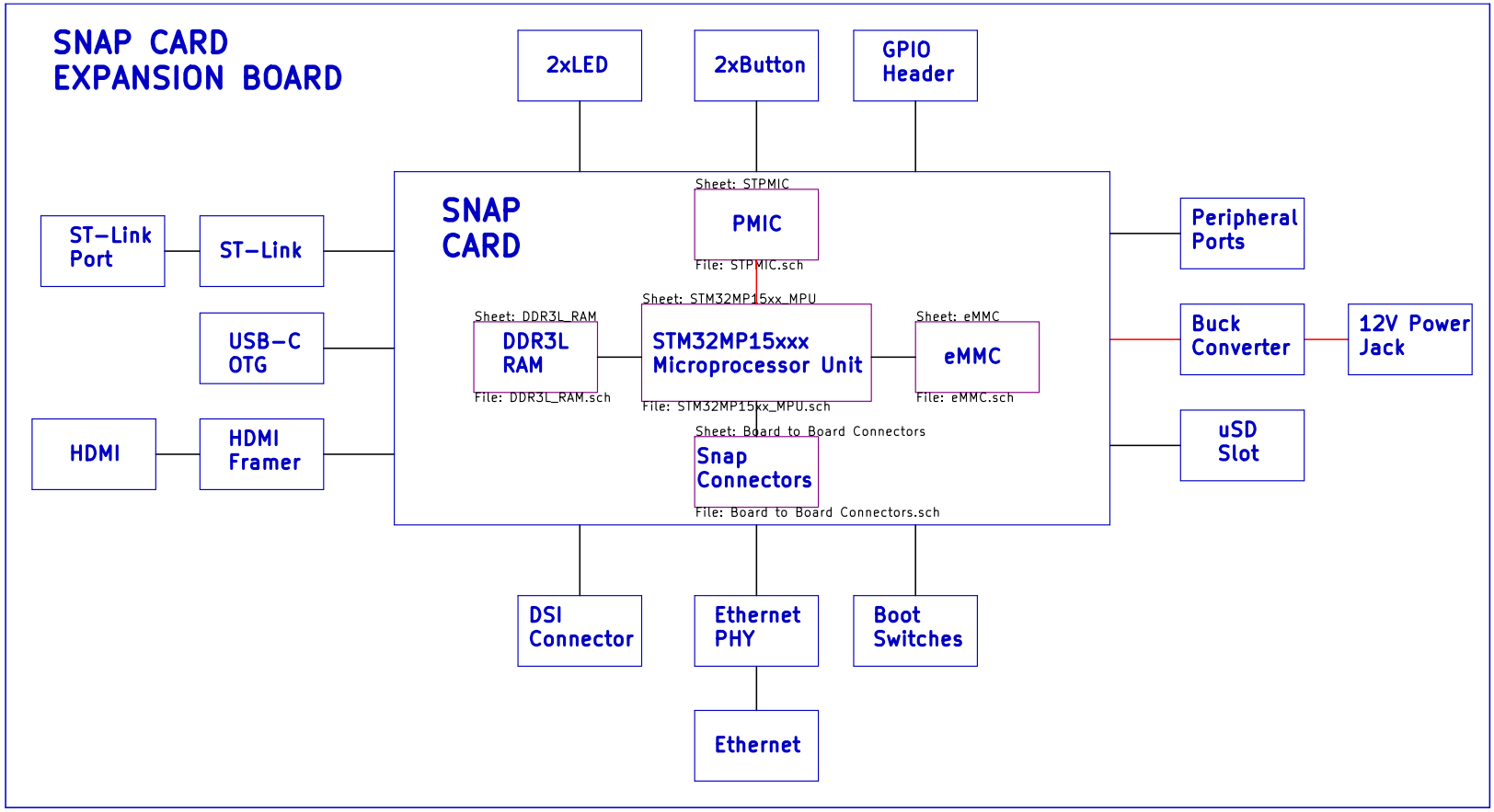
SNAP PROJECT OVERVIEW



All Features

- STM32MP157 Dual Core A7 + M4 MPU
- ST PMIC
- 4-Gbit DDR3L, 16 bits, 533MHz
- 1-Gbps Ethernet(RGMII) compliant with IEEE-802.3ab
- USB OTG HS
- 4 User LEDs
- 2 User Push Buttons
-12 V DC input Power Jack
- 1xEthernet RJ454 Connector
- 2x USB-A Connectors
- 1xMIPI-DSI Connector
- RPi Compatible GPIO Header
- On-board ST-Link/V2-1 debugger/Programmer
- WiFi 802.11b/g/n
- Bluetooth Low Energy 5.0

Sheet: /		
File: snap_board.sch		
Title: SNAP PROJECT OVERVIEW		
Size: A4	Date: 2021-05-20	**Rev: 1.0.1**
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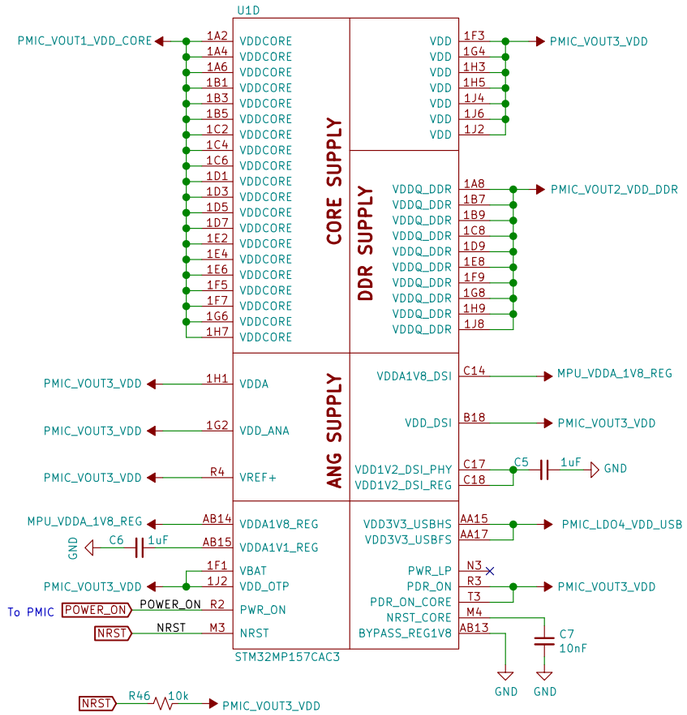
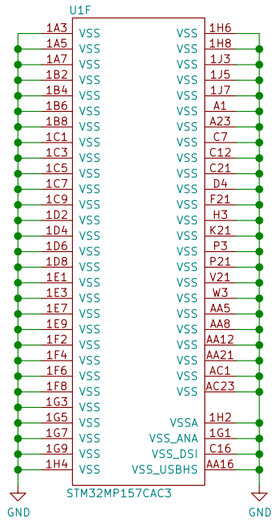
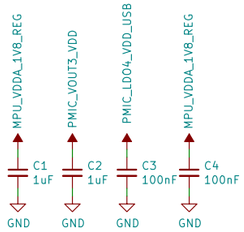
Table of Contents

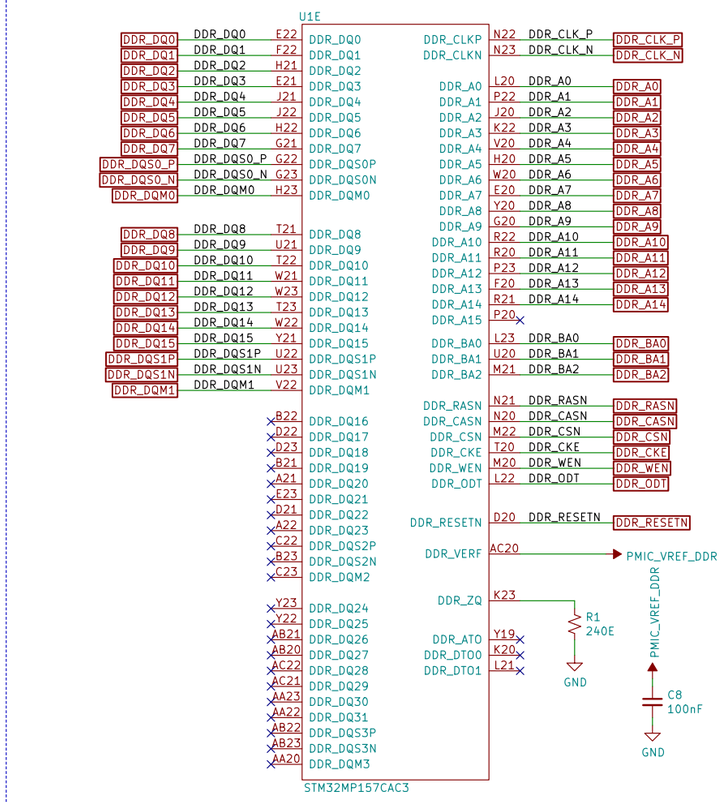
Sheet 1: Project Overview
Sheet 2: Snap Card block diagram / Table of contents (this page)
Sheet 3: STM32MPU Power

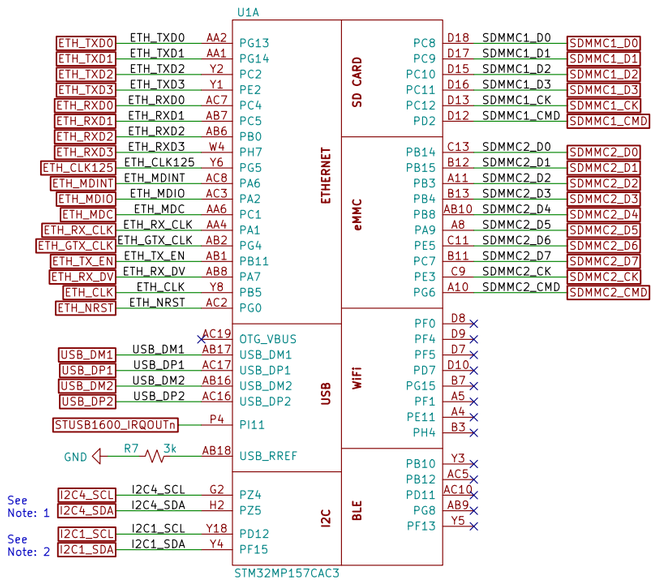
Sheet: /Top Sheet/		
File: Top Sheet.sch		
Title: Top Sheet		
Size: A4	Date: 2021-05-20	**Rev: 1.0.1**
KiCad E.D.A. kicad 5.1.10-88a1d61d5888ubuntu20.04.1		Id: 2/7

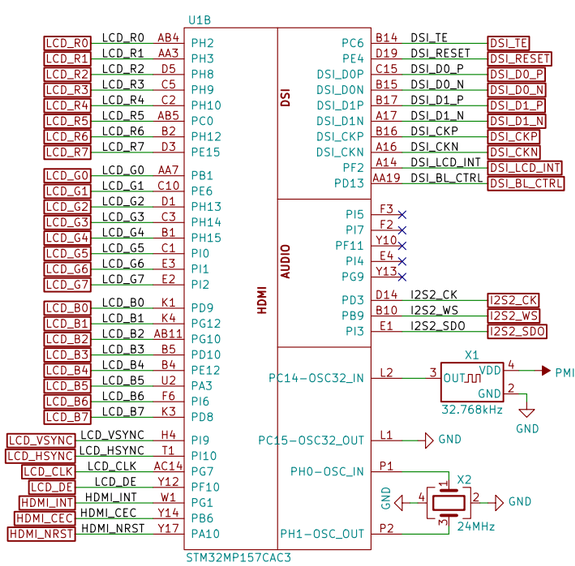


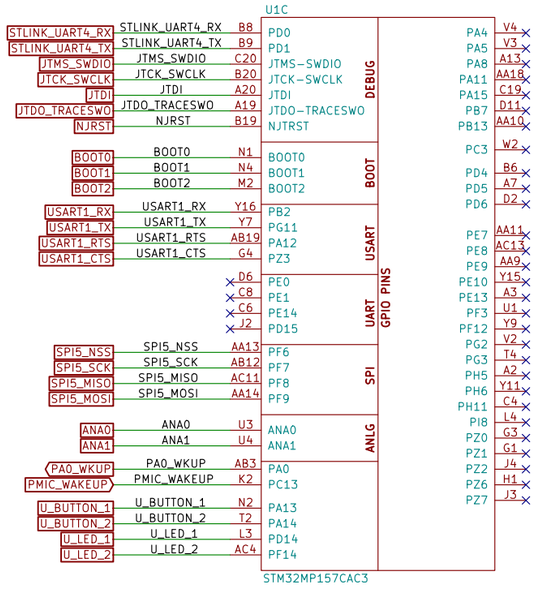


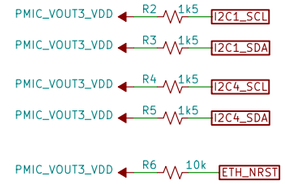








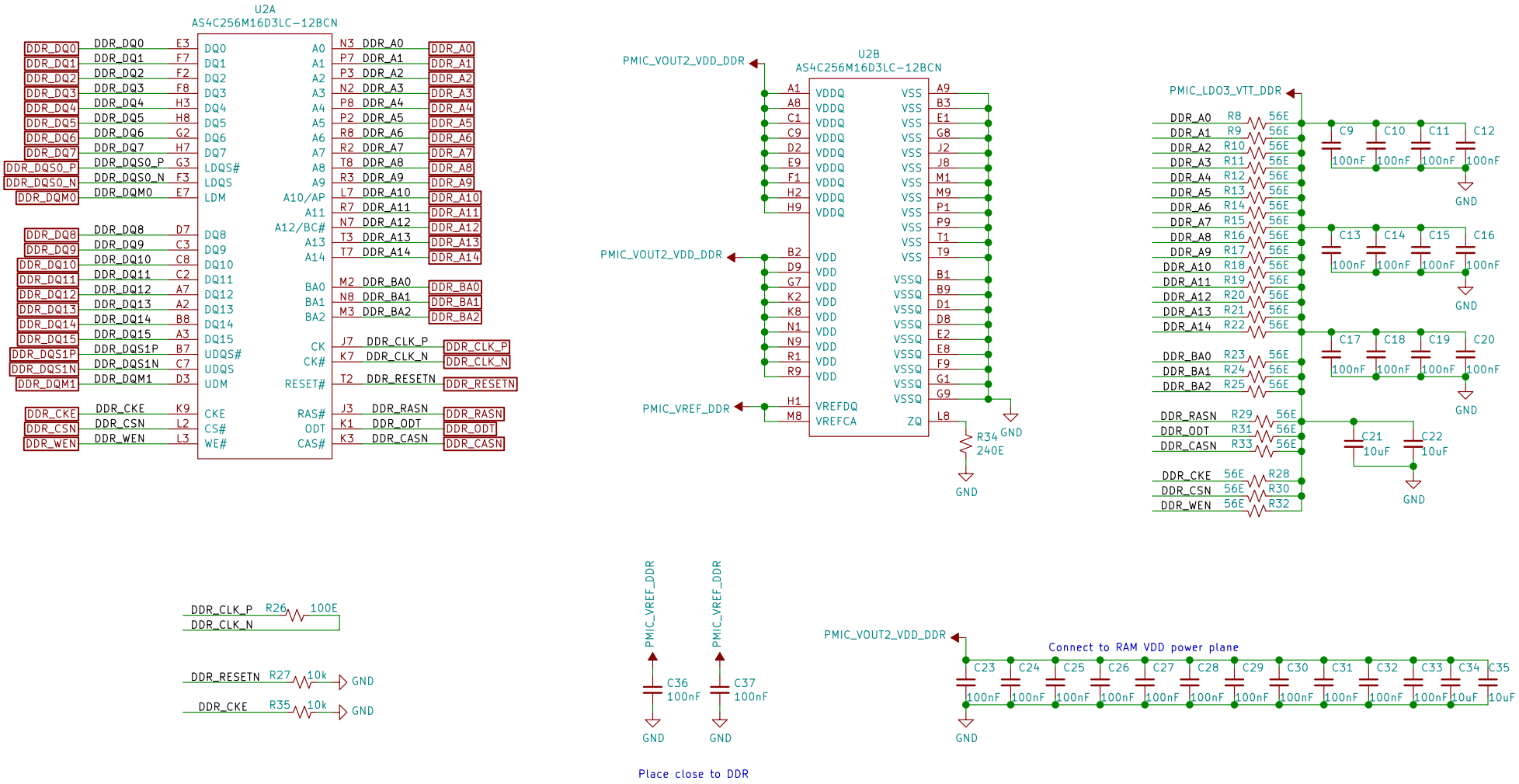




Notes

1. Used for PMIC & USB-C
2. Used for DSI, HDMI & RPi Header

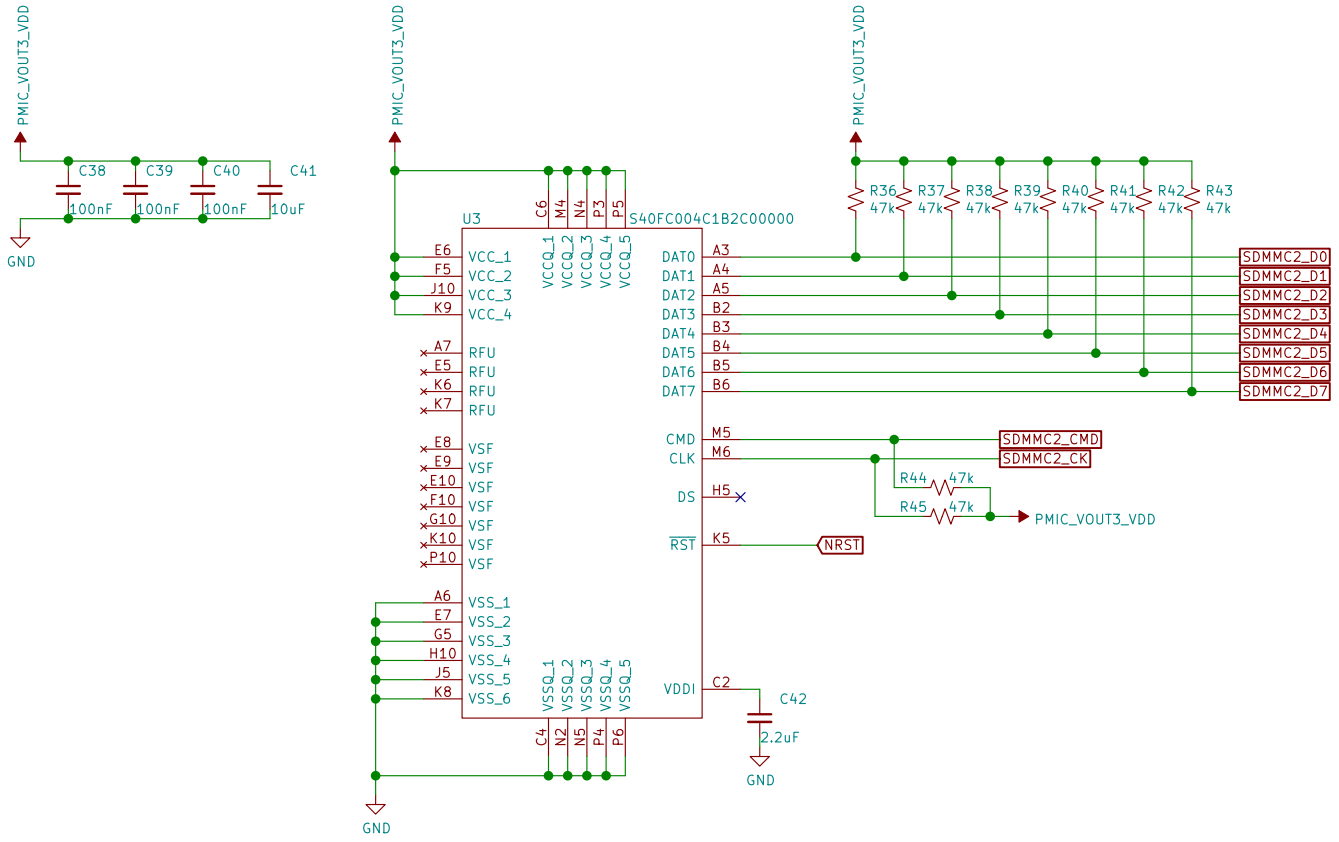
Sheet: /STM32MP15xx_MPU/		
File: STM32MP15xx_MPU.sch		
Title: STM32MP157CAC3 Schematic		
Size: A3	Date: 2021-05-20	**Rev: 1.0.1**
KiCad E.D.A. kicad 5.1.10-88a1d61d58~ubuntu20.04.1		Id: 3/7



Sheet: /DDR3L_RAM/
File: DDR3L_RAM.sch

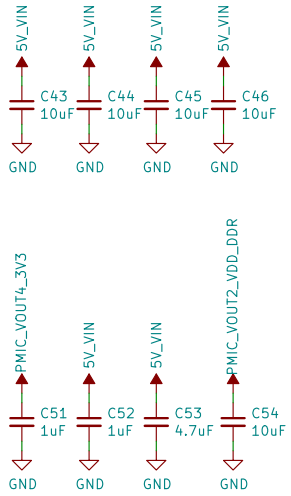
Title: 4Gb (512MB) DDR3L RAM

Size: A4	Date: 2021-05-20	**Rev: 1.0.1**
KiCad E.D.A.	kicad 5.1.10-88a1d61d5888ubuntu20.04.1	Id: 4/7

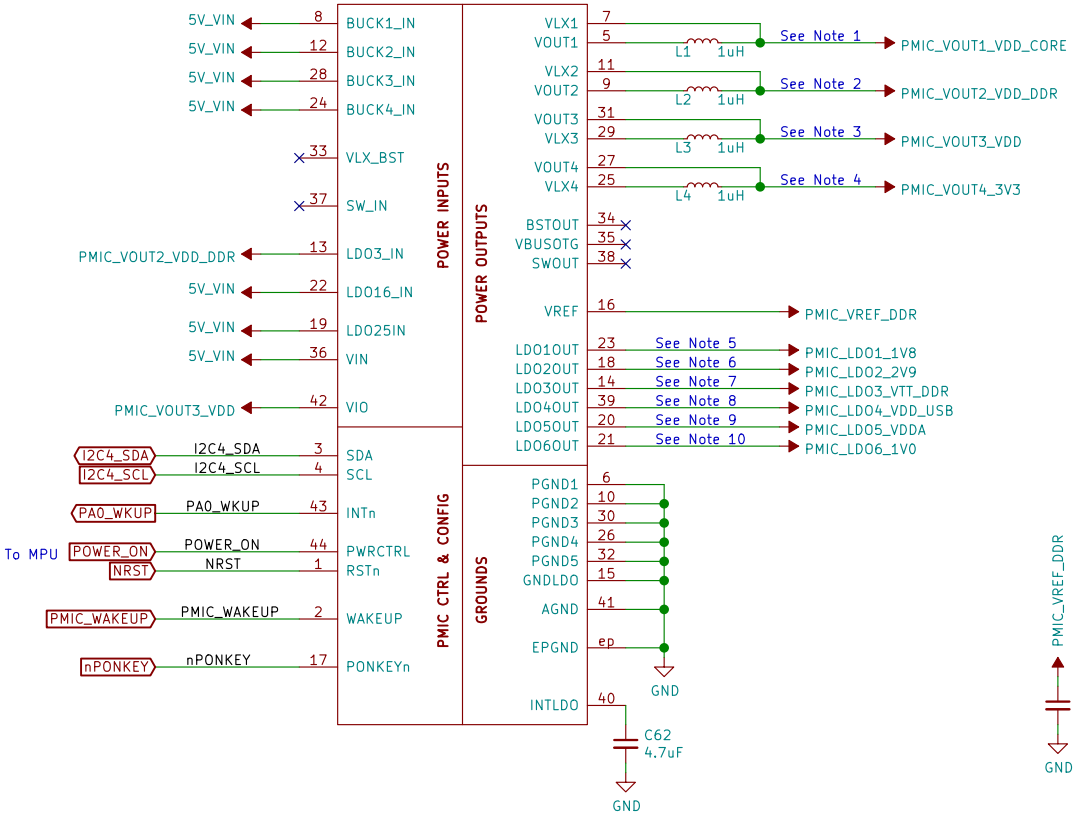


Sheet: /eMMC/		
File: eMMC.sch		
Title: 4GB eMMC Flash Memory		
Size: A4	Date: 2021-05-20	**Rev: 1.0.1**
KiCad E.D.A. kicad 5.1.10-88a1d61d5888ubuntu20.04.1		Id: 5/7

Input Power Caps



U4
STPMIC1BPQR



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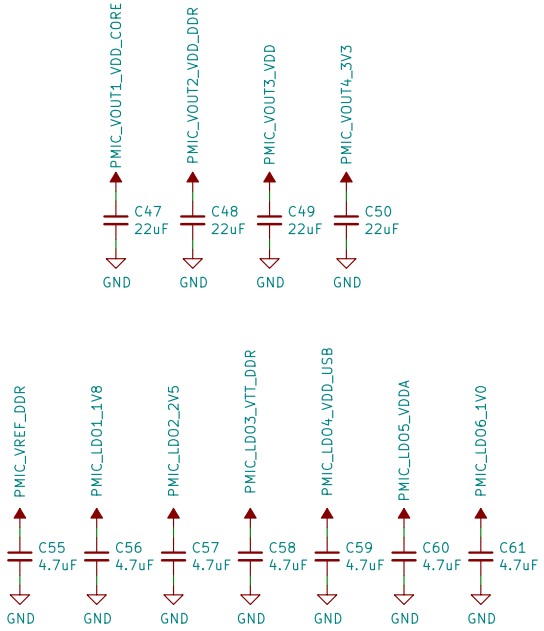
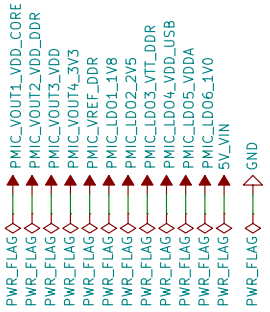


ERC Power Flags



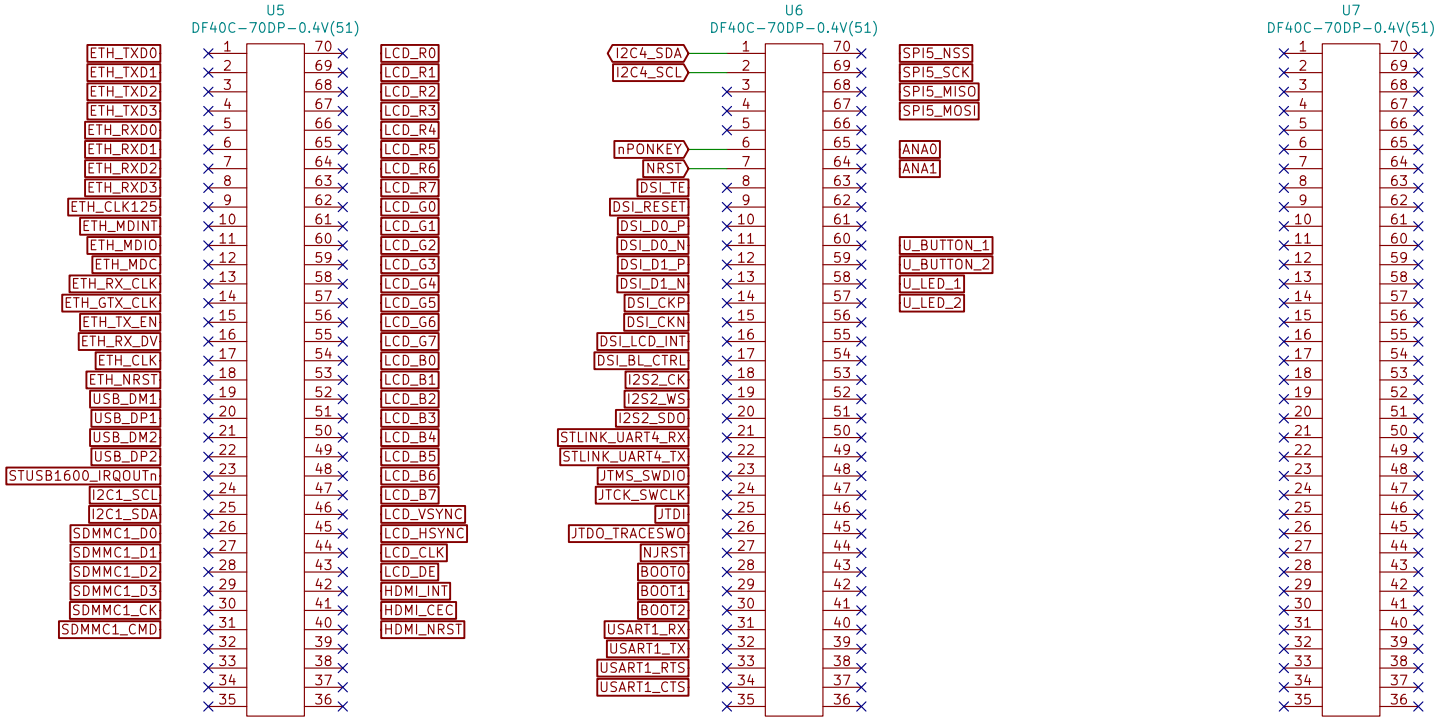
Notes

1. Default = 1.2V; Imax = 2000mA
2. Default = 1.1V; Imax = 1600mA; NOT ON BY DEFAULT
3. Default = 1.8V; Imax = 1000mA
4. Default = 3.3V; Imax = 3000mA
5. Default = 1.8V; Imax = 800mA; NOT ON BY DEFAULT.
6. Default = 2.9V; Imax = 800mA
7. Default = 1.8V; Imax = 150mA; NOT ON BY DEFAULT
8. Default = 3.3V; Imax = 200mA
9. Default = 2.9V; Imax = 800mA
10. Default = 1.0V; Imax = 350mA; NOT ON BY DEFAULT

Sheet: /STPMIC/
File: STPMIC.sch

Title: ST Power Management IC

Size: A4	Date: 2021-05-20	**Rev: 1.0.1**
KiCad E.D.A.	kicad 5.1.10-88a1d61d5888ubuntu20.04.1	Id: 6/7



Sheet: /Board to Board Connectors/
File: Board to Board Connectors.sch

Title: Board to Board Snap Connectors

Size: A4	Date: 2021-05-20	**Rev: 1.0.1**
KiCad E.D.A.	kicad 5.1.10-88a1d61d5888ubuntu20.04.1	Id: 7/7