### Table of Contents

- 1. Logic Board 1A Block Diagram (This Page)
- 2. STM32MP157CAC3 MPU
- 3. Board to Board Connectors
- 4. Power Management IC
- 5. 4GB eMMC Storage
- 6. 512MB DDR3L SDRAM

## **Design Notes**

- 1. Wireless Connectivity is removed for the sake of simplicity and testing purposes.
- 2. Seperate development boards are made for Wireless to test on STM31MP157C-DK2.

#### Important Note:

Always match the compatible revision numbers carfully.

PCB Revision number — 1.0.0 BOM Revision number — 1.0.0 Assembly docs Rev number — 1.0.0 Fabrication file Rev number — 1.0.0

#### Reference Docs

1. Reference schematic details:

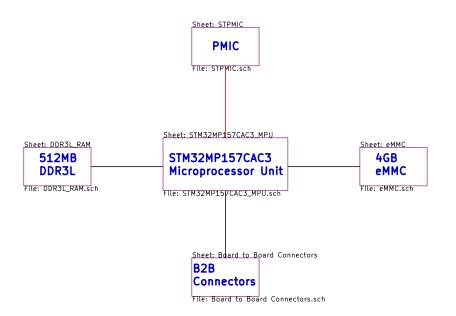
Reference: MB1272

Project: STM32MP15-Disco

Variant: DK2 Revision: C-01 Date: 12-SEP-18

- 2. STM32MP157C/F Datasheet
- 3. AN5031 Appilication Note
- 4. AN5122 Application Note

#### **BLOCK DIAGRAM**



# LOGIC BOARD 1A TOP PAGE (LB1A\_DCA7M4\_R512MB\_F4GB)

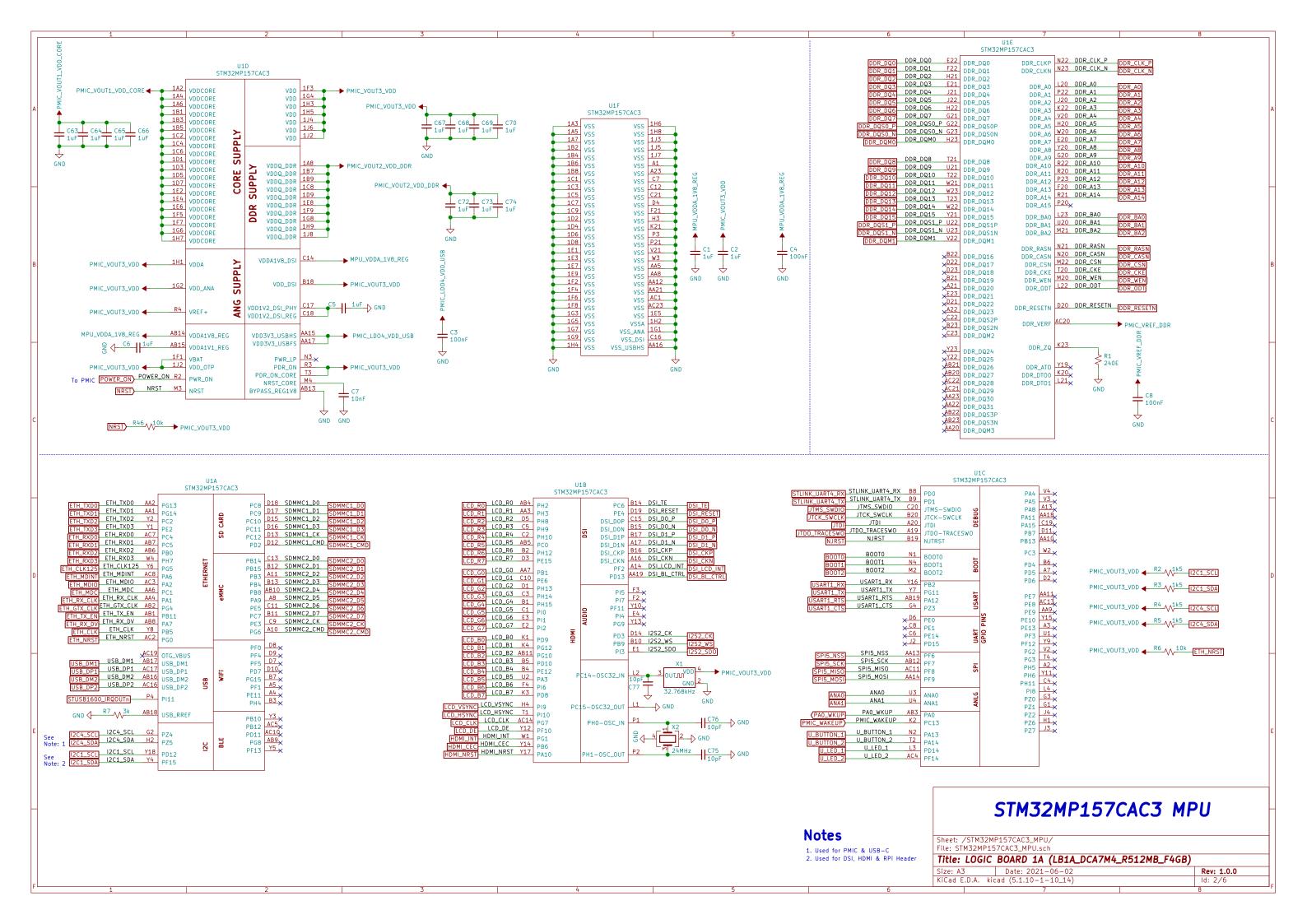
| Sheet: /

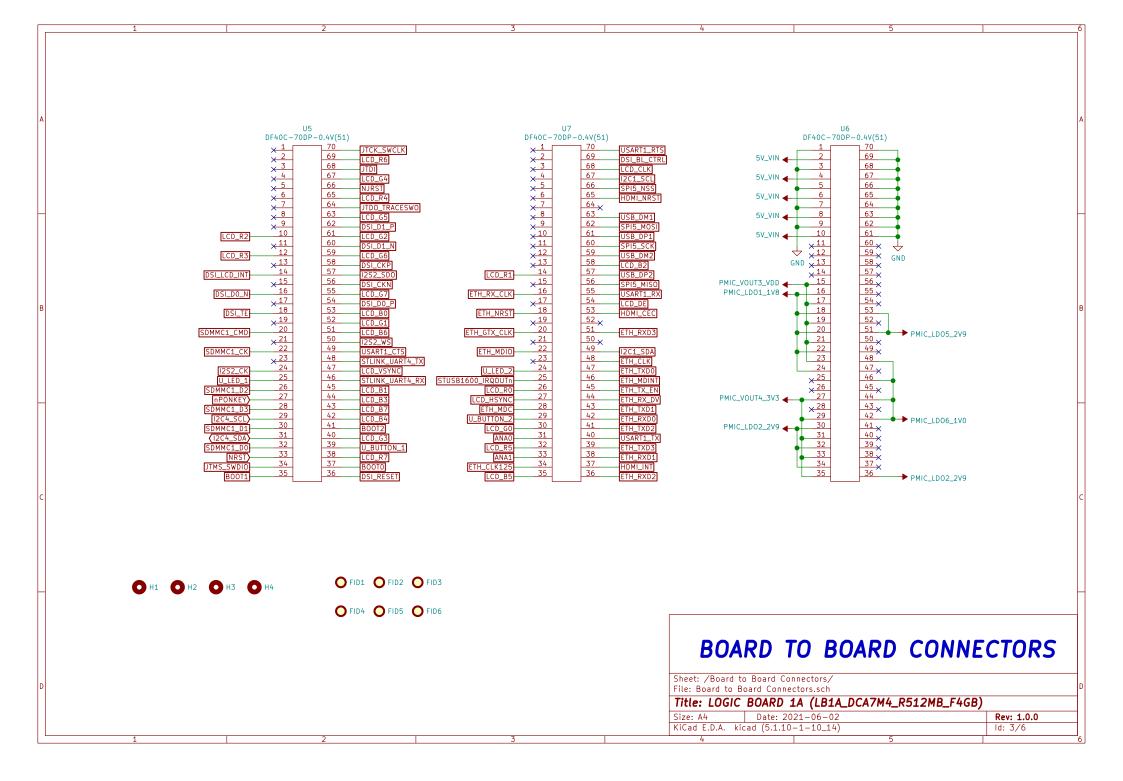
File: LB1A\_DCA7M4\_R512MB\_F4GB.sch

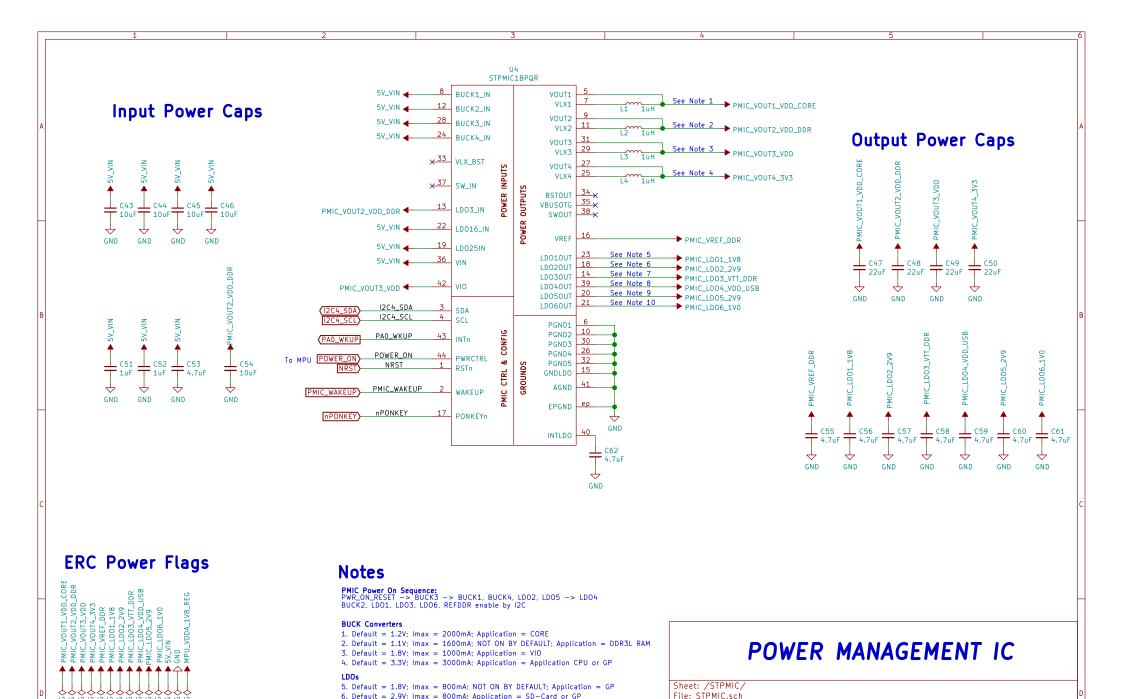
Title: LOGIC BOARD 1A (LB1A\_DCA7M4\_R512MB\_F4GB)

 Size: A4
 Date: 2021-06-02
 Rev: 1.0.0

 KiCad E.D.A. kicad (5.1.10-1-10\_14)
 Id: 1/6







7. Default = 1.8V; Imax = 150mA; NOT ON BY DEFAULT; Application = DDR3 Termination

8. Default (fixed) = 3.3V; Imax = 200mA; Application = USB PHY

9. Default = 2.9V; Imax = 800mA; Application = Flash Memory or GP

10. Default = 1.0V; Imax = 350mA; NOT ON BY DEFAULT; Application = GP

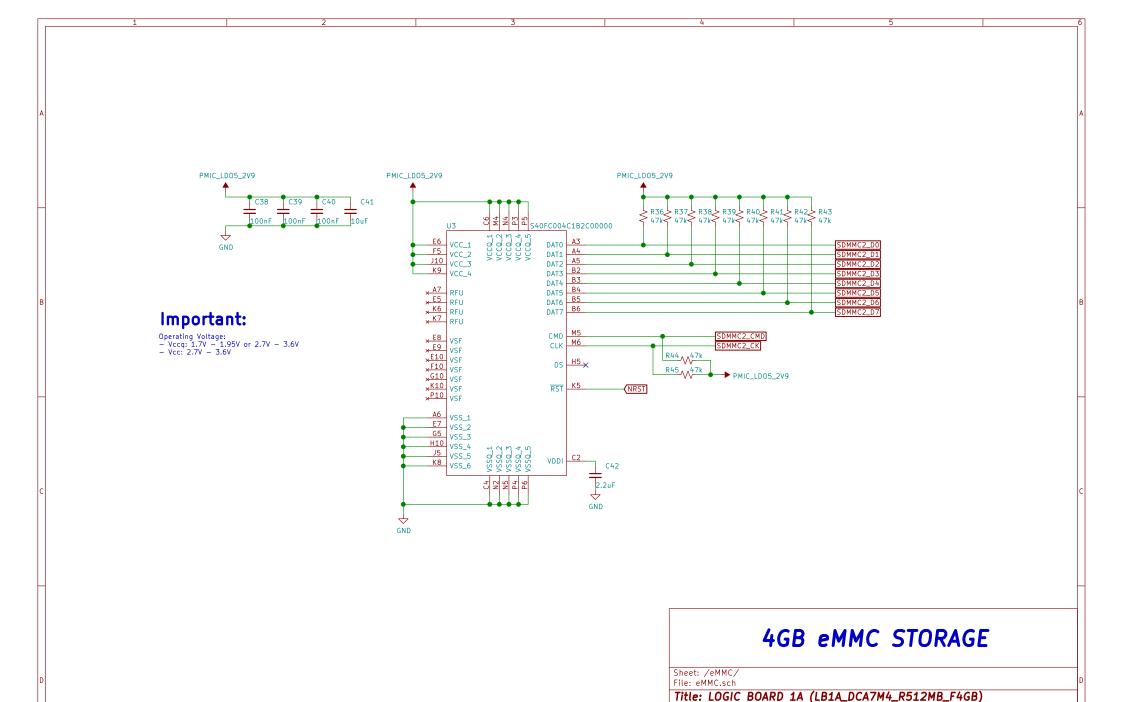
Title: LOGIC BOARD 1A (LB1A\_DCA7M4\_R512MB\_F4GB)

Rev: 1.0.0

ld: 4/6

Date: 2021-06-02

KiCad E.D.A. kicad (5.1.10-1-10\_14)



Date: 2021-06-02

KiCad E.D.A. kicad (5.1.10-1-10\_14)

Rev: 1.0.0

ld: 5/6

