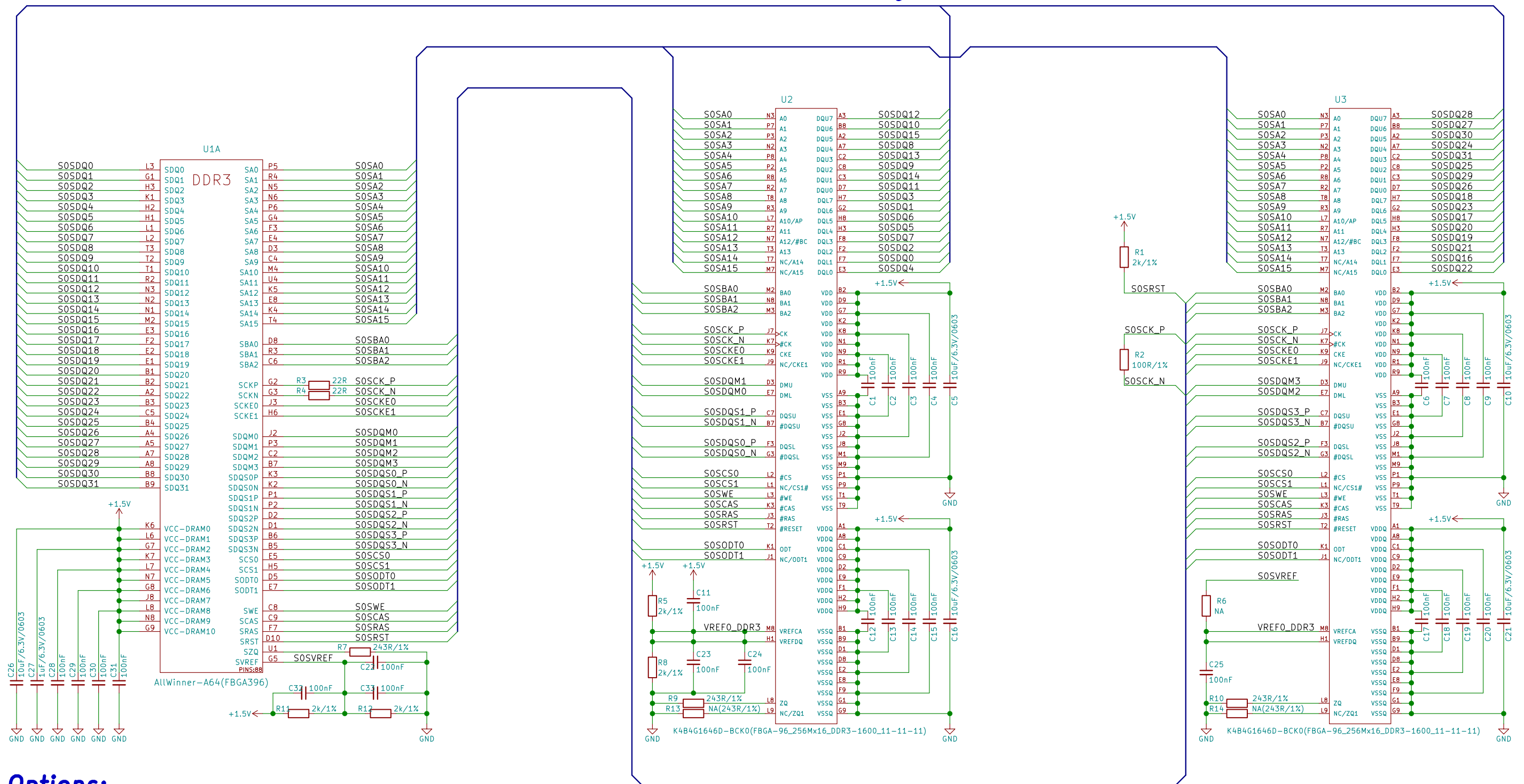


DDR3: 1GByte



Options:

=====

1. Use 2(DDR3 256Mx16 Memory chips)x4Gb = 1GByte, i.e. 2xH5TQ4G63MFR-PBC(or K4B4G1646D-BCK0) -> Default
2. Use 2(DDR3 512Mx16 Memory chips)x8Gb = 2GBytes, i.e. 2xH5TC8G63AMR-PBA(or K4B8G1646Q-MYK0)

Note:

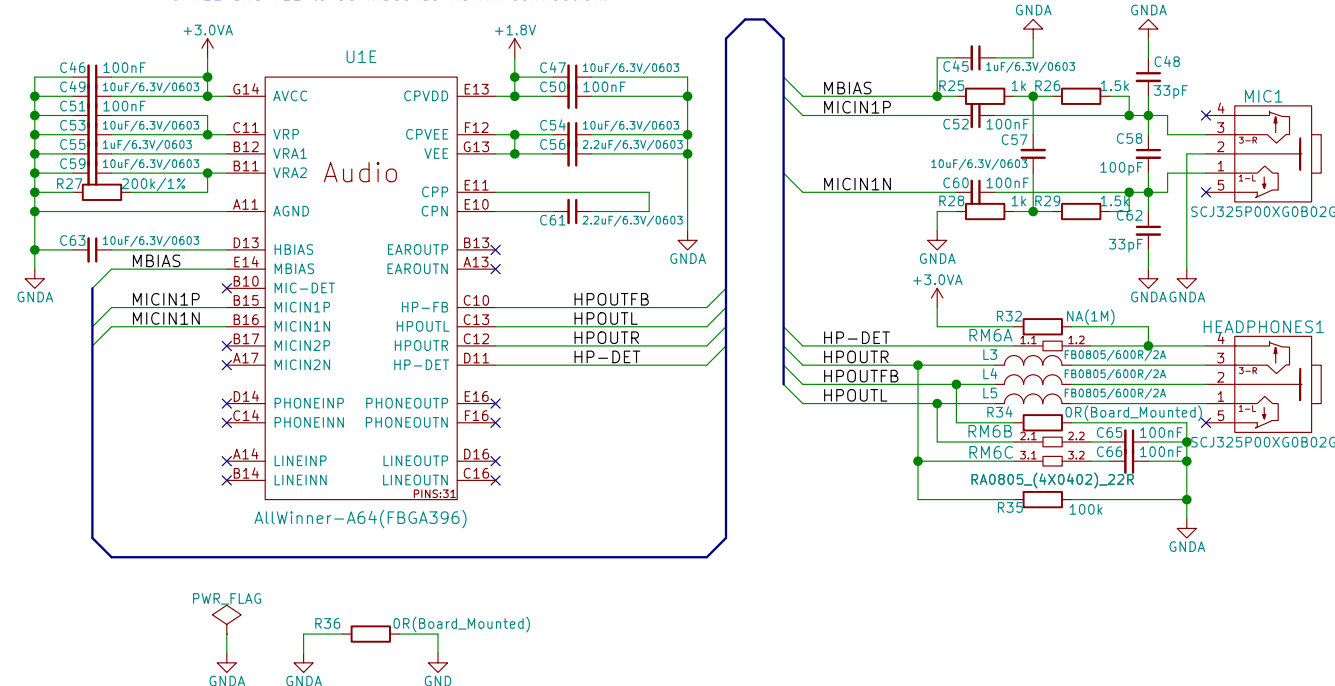
=====

We have used a number of fully compatible, but different DDR3 memories due to supply unavailability. In such cases the memory part name in the schematic might remain outdated. It is recommended to always refer to the exact memory name printed on the component itself.

DDR3 Memory		
<c> 2015		
OLIMEX LTD, Bulgaria		
Sheet: /		
File: A64-OLinuXino_Rev_A.sch		
Title: A64-OLinuXino		
Size: A3	Date: 2015-10-15	Rev: Rev_A
KiCad E.D.A. kicad 0.201601071450+642840ubuntu15.10.1-stable		Id: 1/4

```
Option!
=====
eMMC is default, because in this case, SPI0 is not multiplexed with eMMC as is with the NAND Flash!
SPI0 is available on the UEXT connector!
```

CPVEE and VEE to be made as Kelvin connection.



The diagram illustrates the hardware connections for the Allwinner A64 (FBGA396) board. It shows the U1D module connected to the board's pins and the MICRO_SD1 module connected to the board's pins. The board includes various components like resistors (R30, R31, R33), capacitors (C64), and a power flag (PWR_FLAG).

U1D Module Connections:

- PF0/SDC0-D1/JTAG-MS1
- PF1/SDC0-D0/JTAG-DI1
- PF2/SDC0-CLK/UART0-TX
- PF3/SDC0-CMD/JTAG-D0I1
- PF4/SDC0-D3/UART0-RX
- PF5/SDC0-D2/JTAG-CK1
- T-CARD

MICRO_SD1 Module Connections:

- CD/DAT3/CS
- CMD/DI
- VDD
- VSS
- CLK/CLK
- DAT0/D0
- DAT1/RES
- DAT2/RES

Board Components:

- R30: 100k
- R31: 10k
- L2: FB0805/600R/2A
- C64: 47uF/6.3V/0805
- R33: 22R
- RM7A: 1.1
- RM7B: 2.1
- RM7C: 3.1
- RM7D: 4.1
- RA1206(4x0603)_4B8_100k

<c> 2015

OLIMEX LTD, Bulgaria

Sheet: /NAND Flash , eMMC, T-Card and Audio/
File: NAND Flash , eMMC, T-Card and Audio.sch

Title: A64-OLinuxino

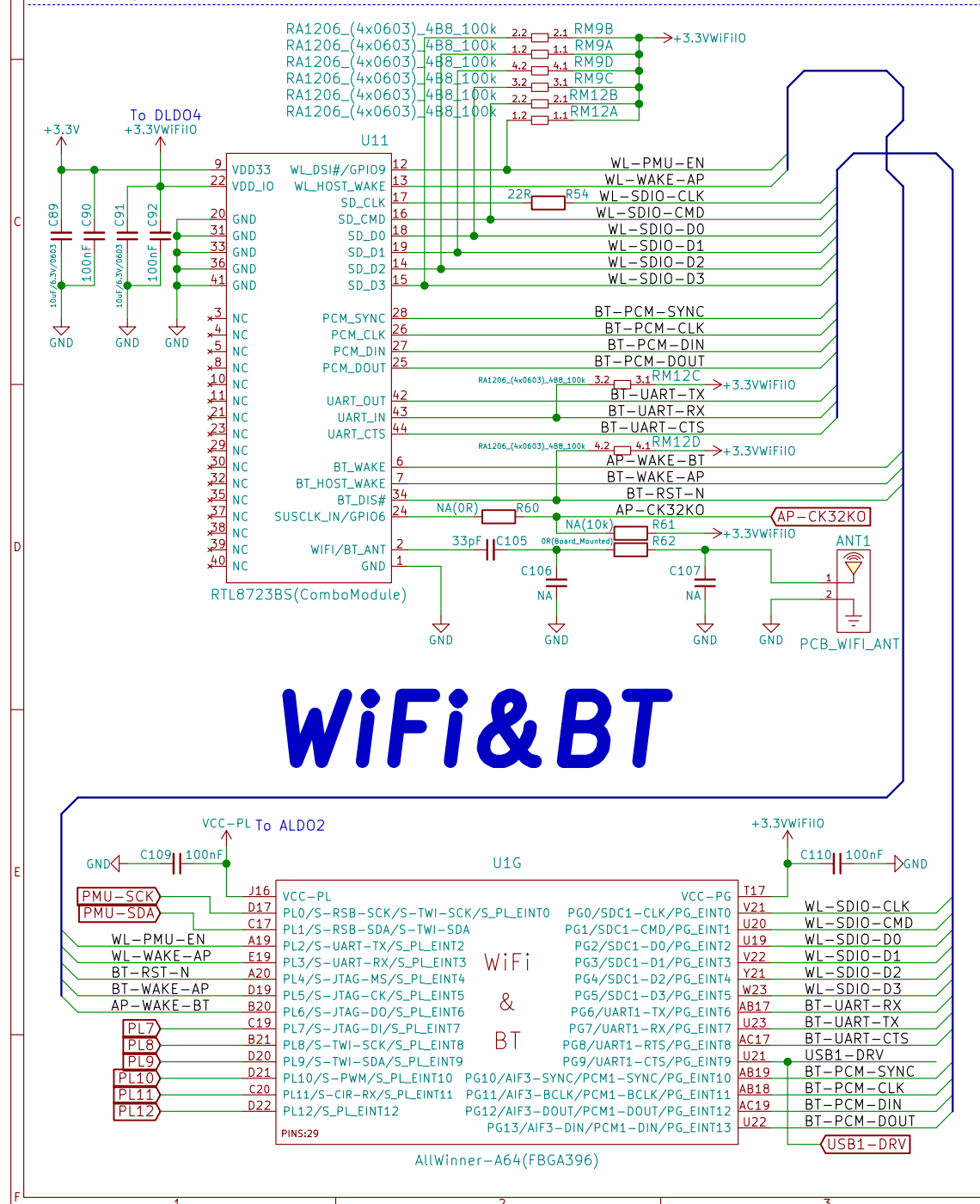
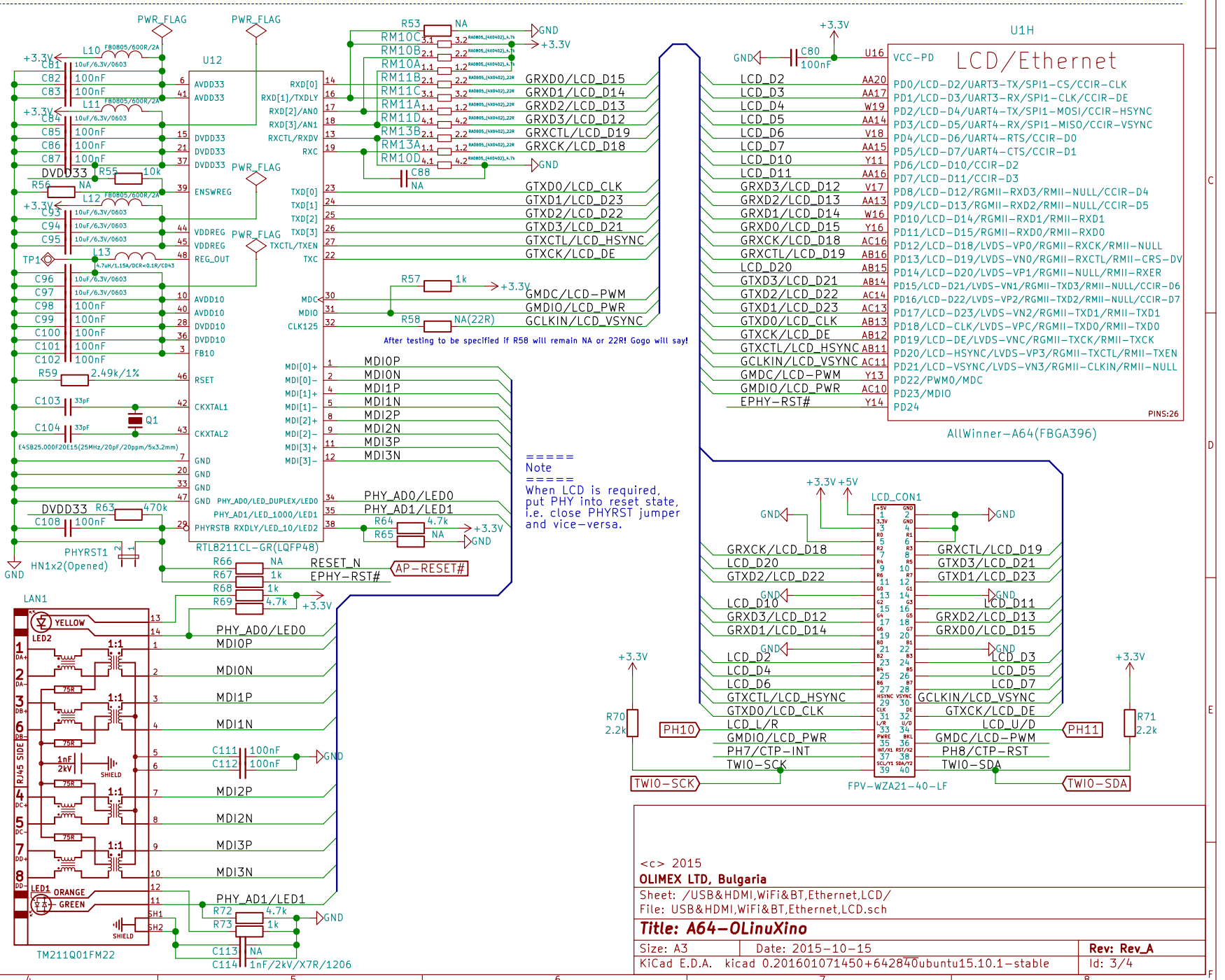
Size: A3	Date: 2015-10-15
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RIC88 E.D.A. RIC88 0.2010010714504	
	7

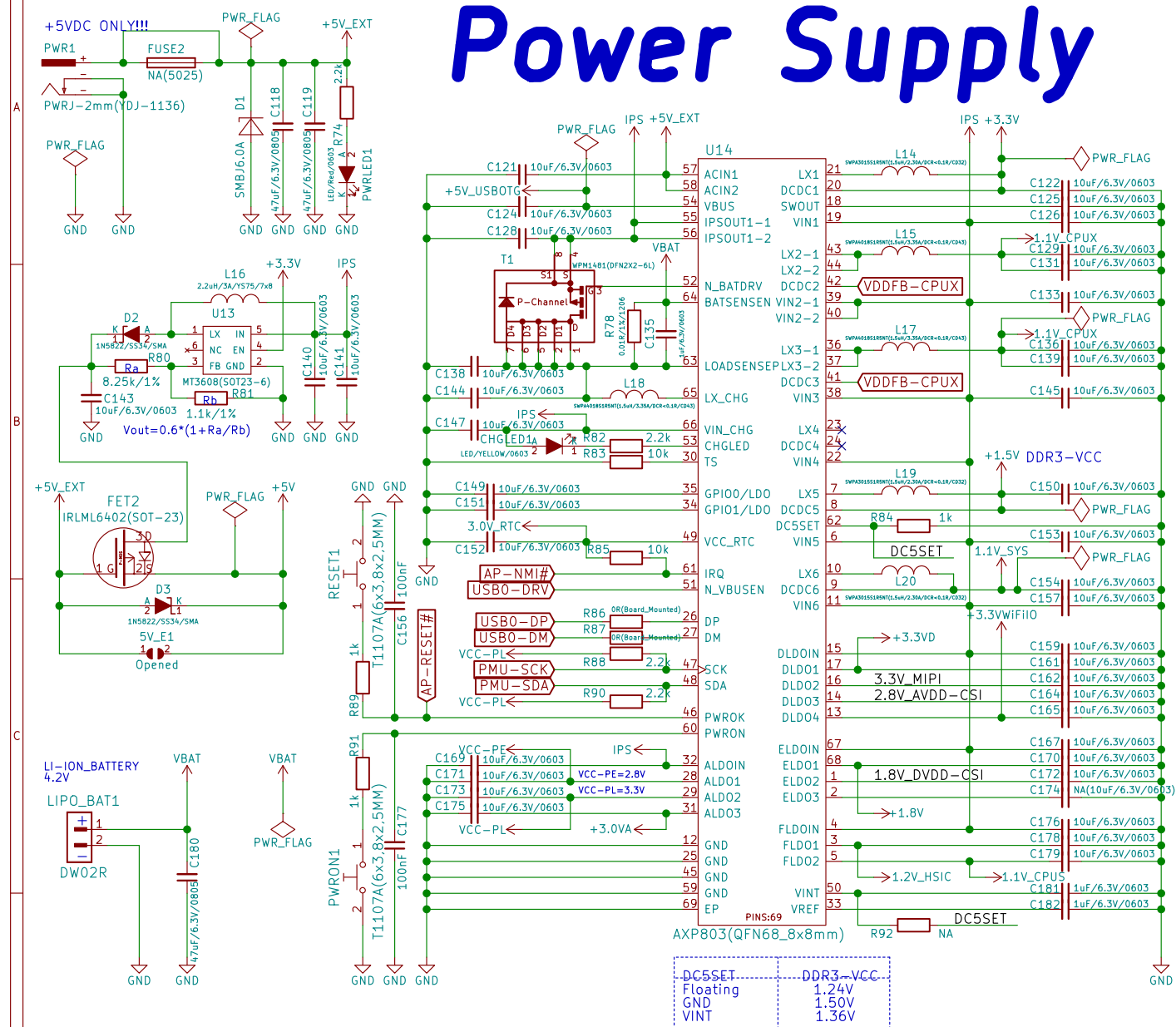
Rev: Rev_A

Id: 2/4

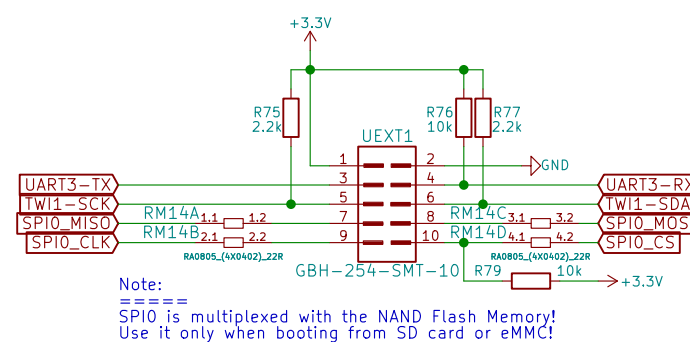
[illegible]

from Root up to Here!!!!

Power Supply

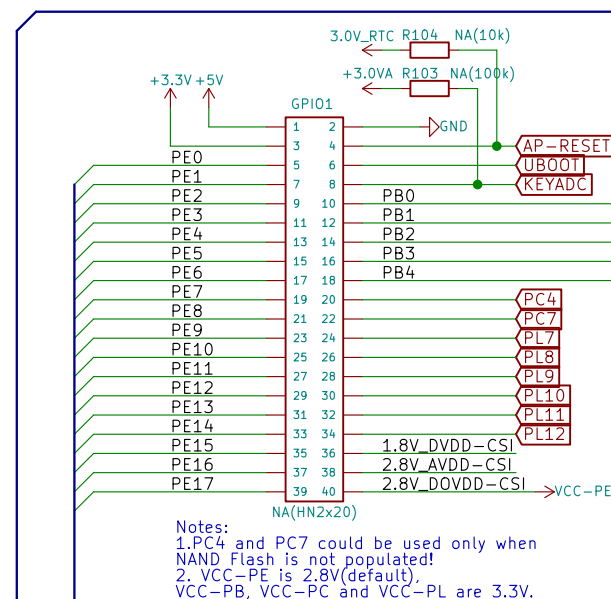


UEXT



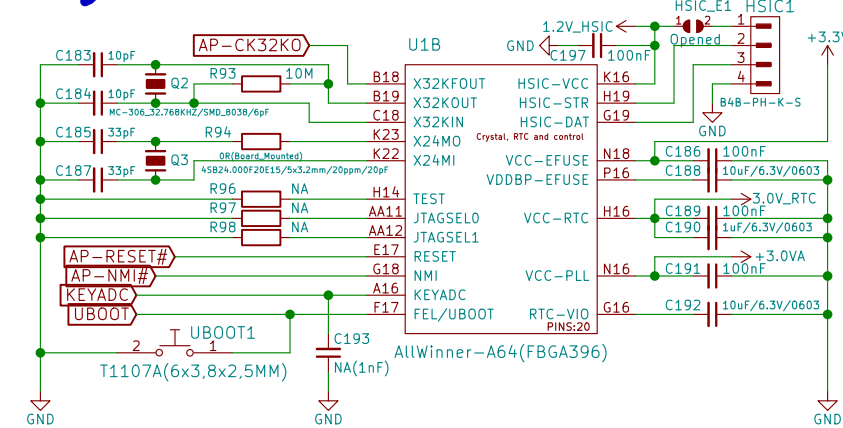
Note:
=====
SPI0 is multiplexed with the NAND Flash Memory!
Use it only when booting from SD card or eMMC!

Extension



Notes:
1. PC4 and PC7 could be used only when NAND Flash is not populated!
2. VCC-PE is 2.8V(default).
VCC-PB, VCC-PC and VCC-PL are 3.3V.

Crystal, RTC & Control



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OLIMEX LTD, Bulgaria
Sheet: /Power Supply, Extensions and MiPi-DSI/
File: Power Supply, Extensions and MiPi-DSI .sch
Title: A64-OLinuXino
Size: A3 Date: 2015-10-15 Rev: Rev_A
KiCad E.D.A. kicad 0.201601071450+642840ubuntu15.10.1-stable Id: 4/4

MiPi-DSI

