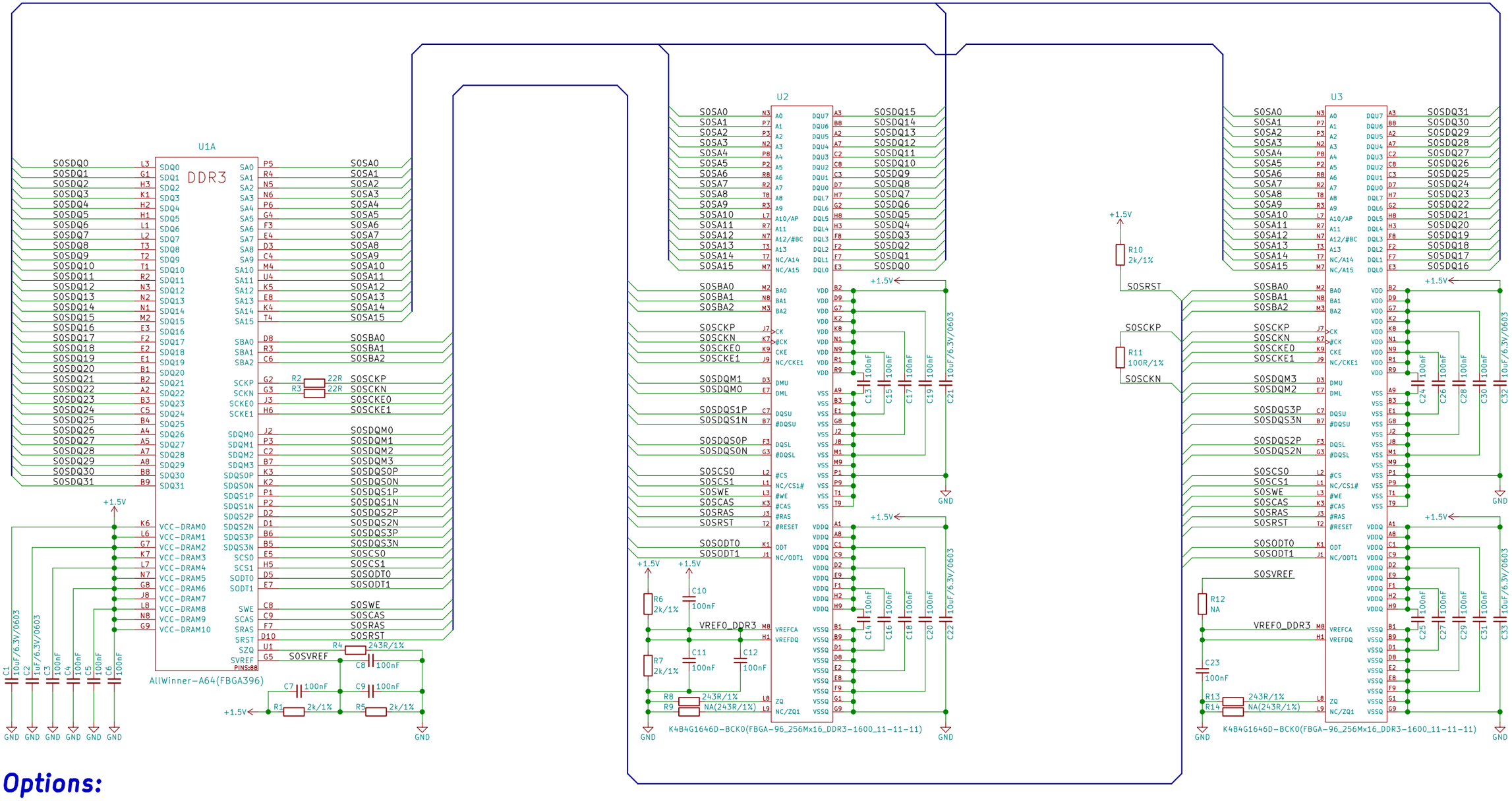
DDR3: 1GByte



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In such cases the memory part name in the schematic might remain outdated.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

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OLIMEX LTD, Bulgaria

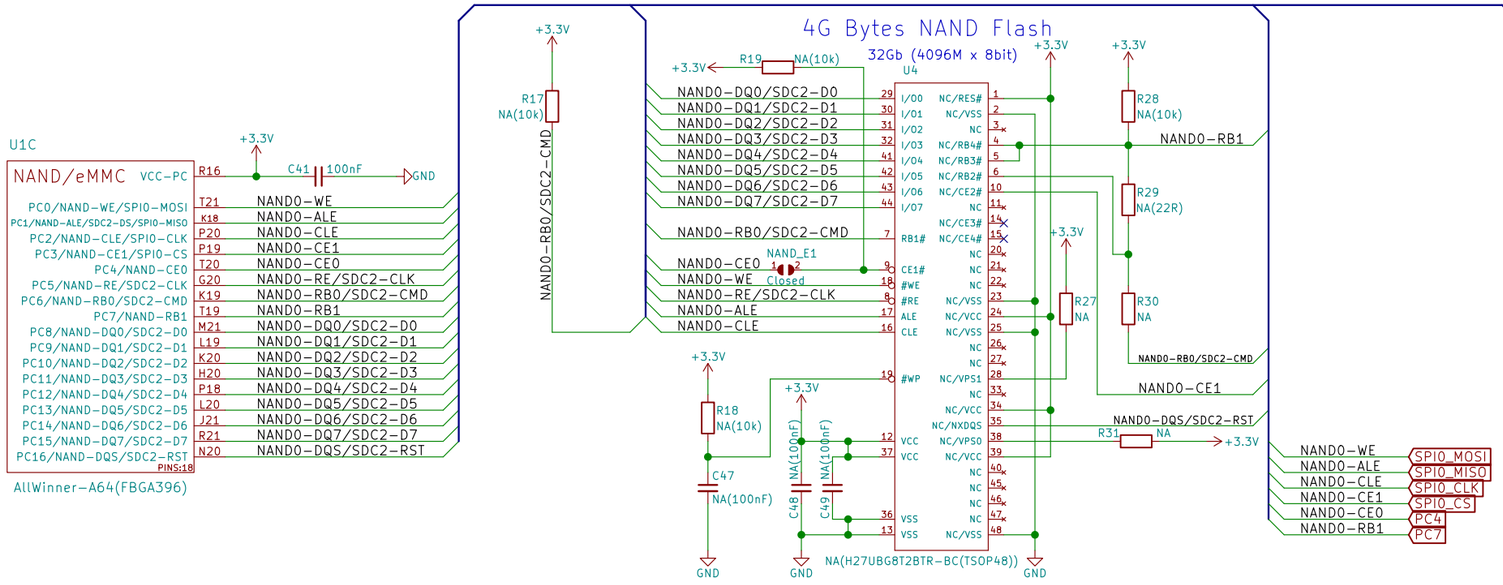
Sheet: /
File: A64-OlinuXino_Rev_A.sch

Title: A64-OlimeXino

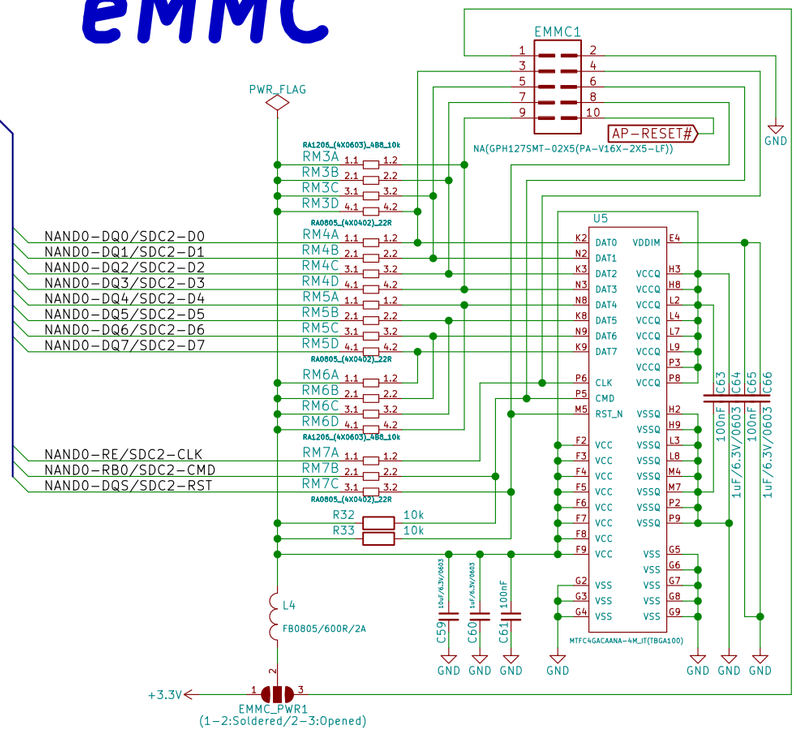
Size: A3	Date: 2015-10-15	**Rev: Rev_A**
KiCad E.D.A.	kicad 0.201511041201+629730ubuntu15.10.1-product	Id: 1/4

NAND Flash

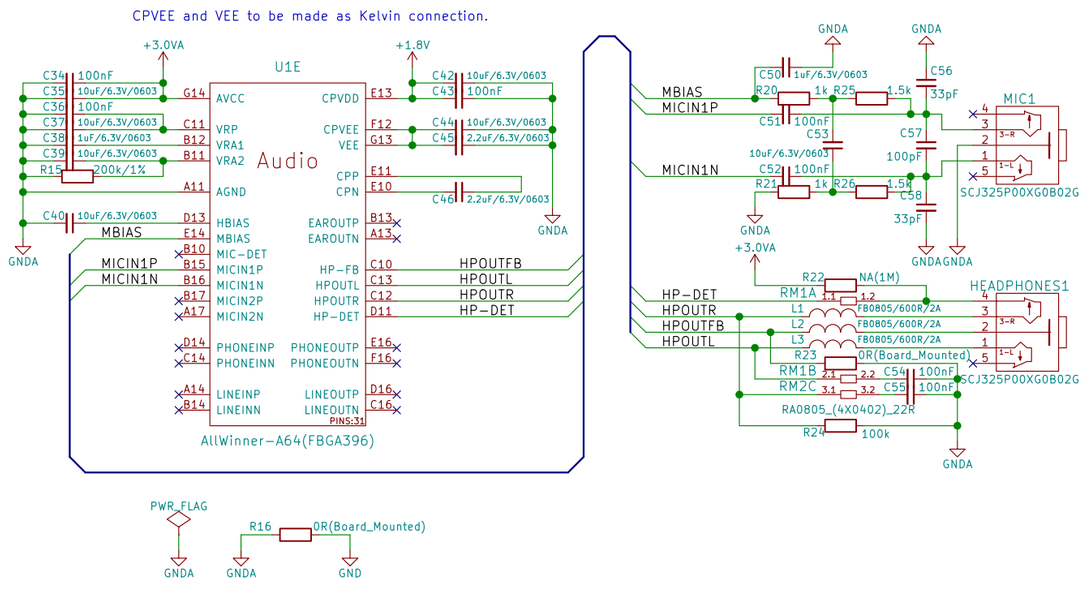
Option!
======
eMMC is default, because in this case, SPI0 is not multipexed with eMMC as is with the NAND Flash!
SPI0 is available on the UEXT connector!



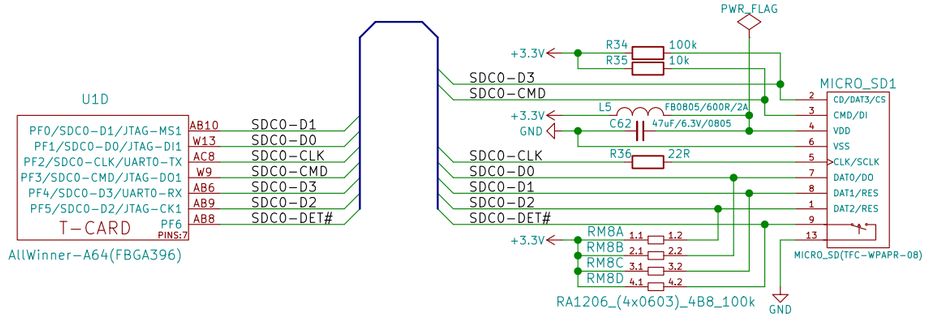
eMMC



Audio



T-Card



DDR3 Memory

<c> 2015
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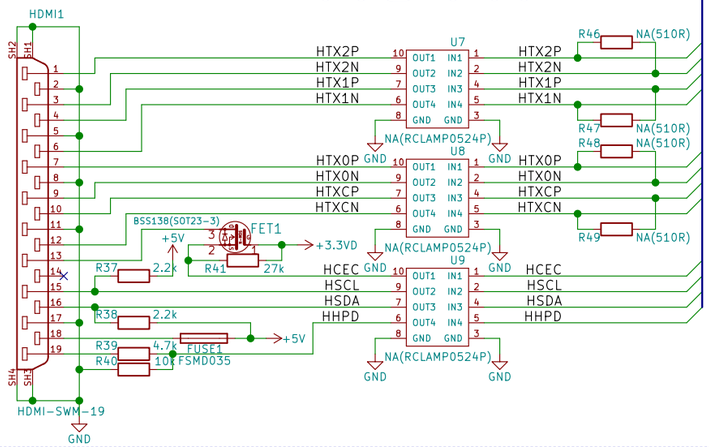
Sheet: /NAND Flash , eMMC, T-Card and Audio/
File: NAND Flash , eMMC, T-Card and Audio.sch

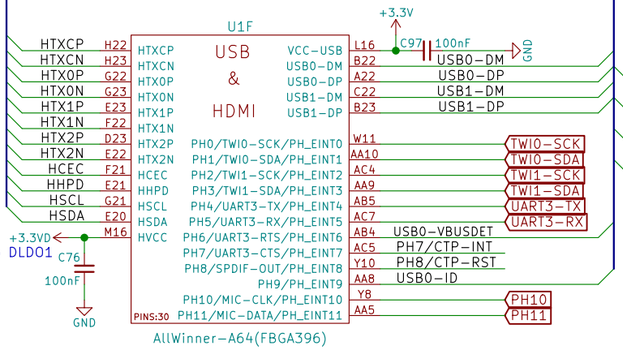
Title: A64-OlimeXino

Size: A3	Date: 2015-10-15	**Rev: Rev_A**
KiCad E.D.A. kicad 0.201511041201+629730ubuntu15.10.1-product		Id: 2/4

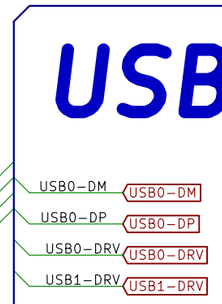
HDMI

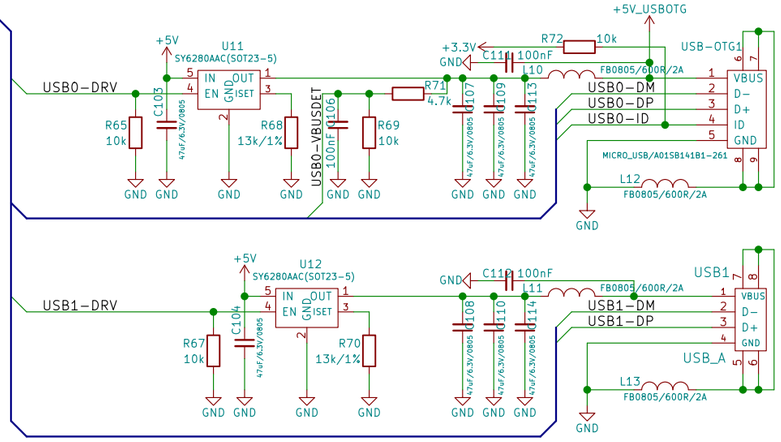
The schematic was checked from Root up to Here!!!!!



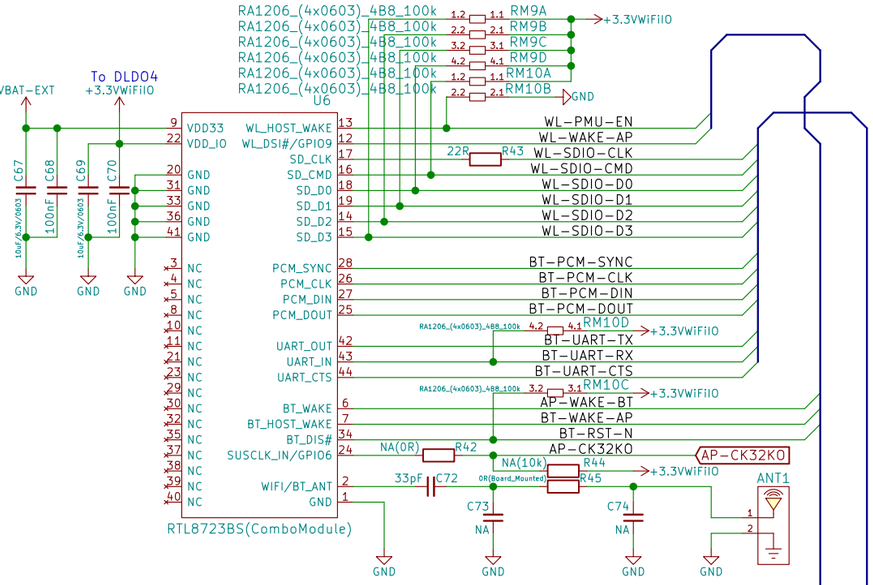


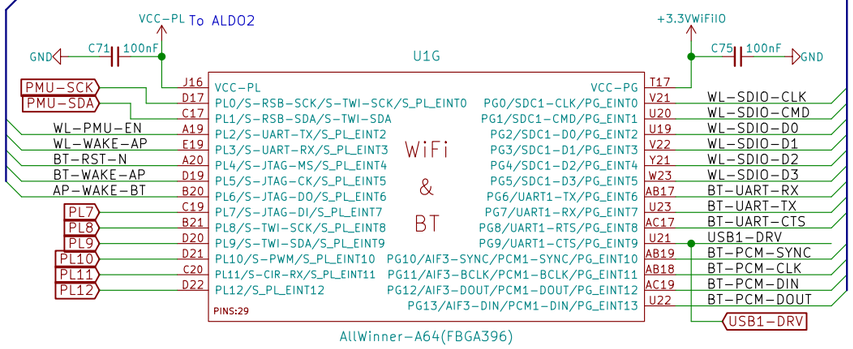
USB



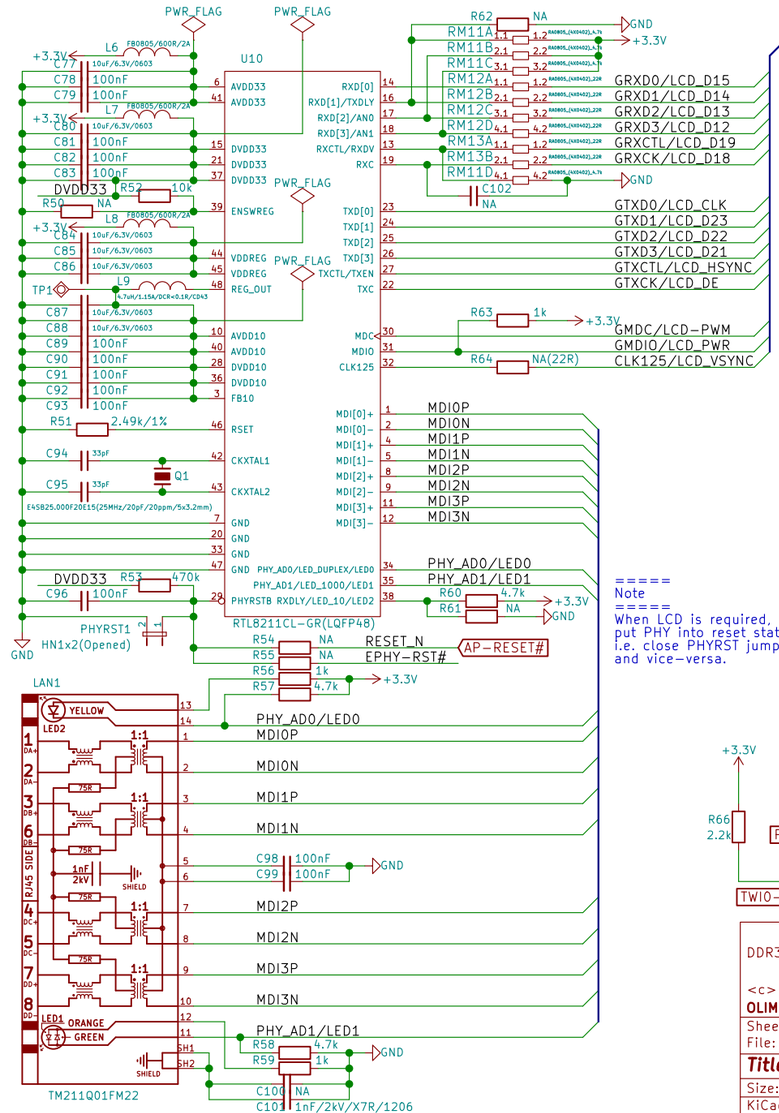


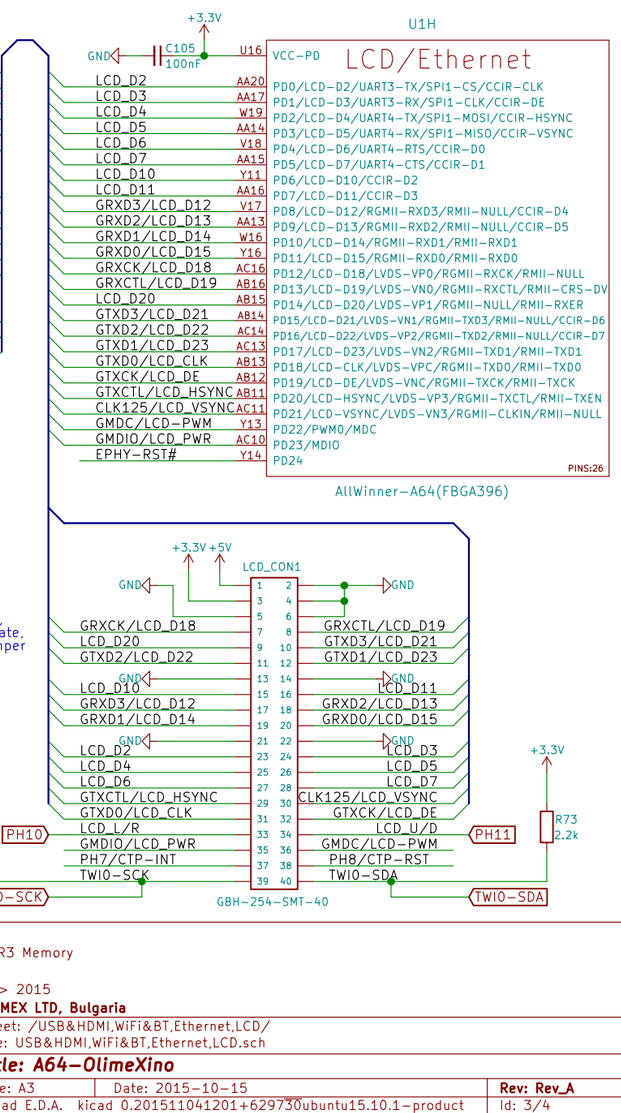
WiFi&BT





Gigabit Ethernet or LCD





=====
Note
=====
When LCD is required, put PHY into reset state, i.e. close PHYRST jumper and vice-versa.

DDR3 Memory

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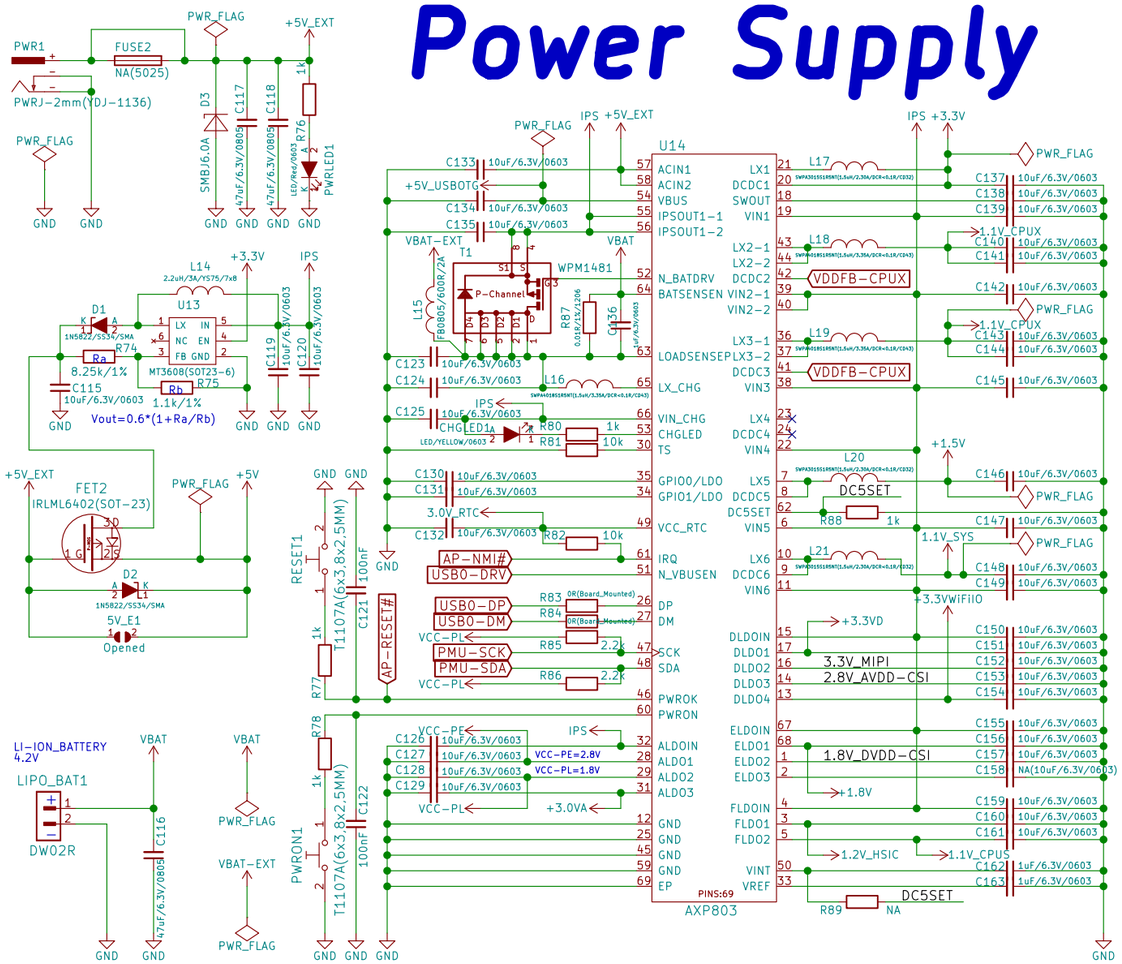
Sheet: /USB&HDMI,WiFi&BT,Ethernet,LCD/
File: USB&HDMI,WiFi&BT,Ethernet,LCD.sch

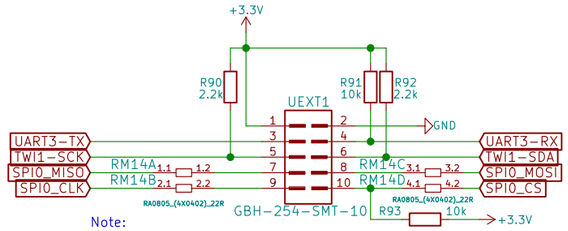
Title: A64-OlimeXino

Size: A3	Date: 2015-10-15	**Rev: Rev_A**
KiCad E.D.A.	kicad 0.201511041201+629730ubuntu15.10.1-product	Id: 3/4

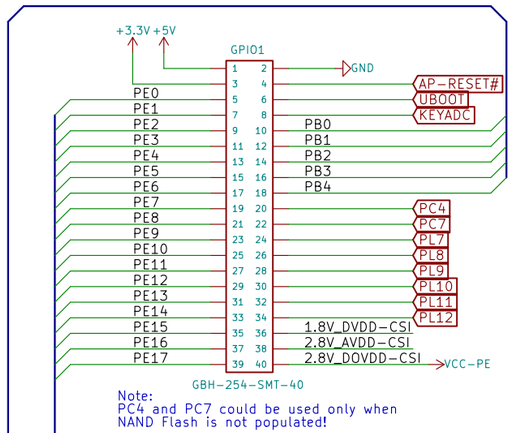
Power Supply

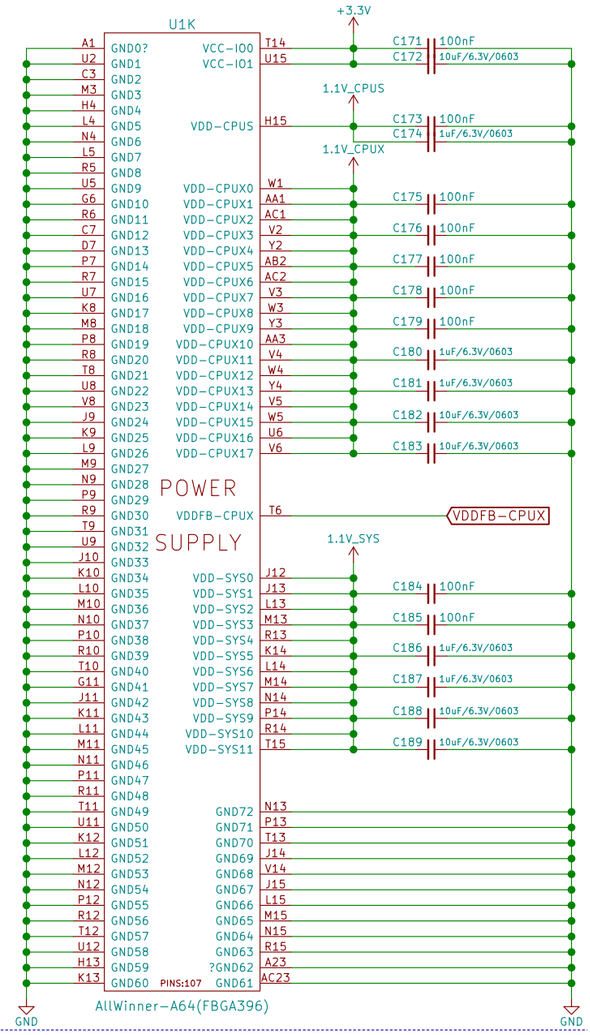


UEXT

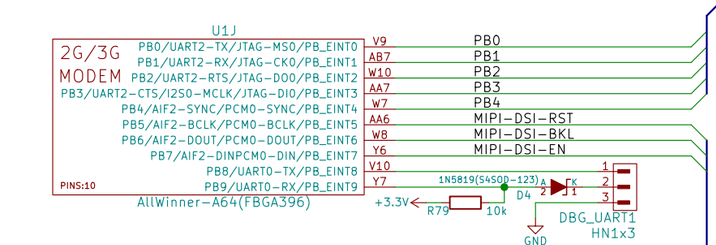


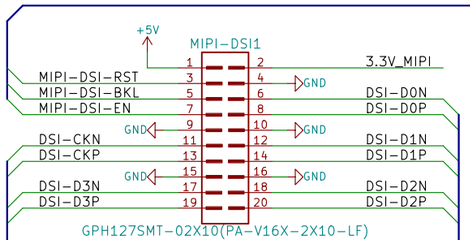
Extension

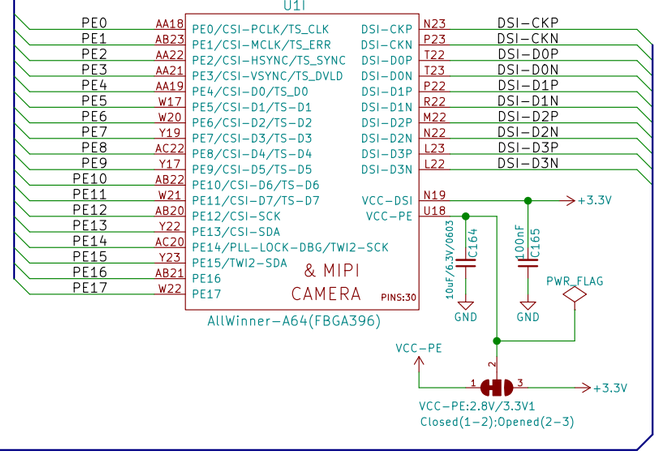




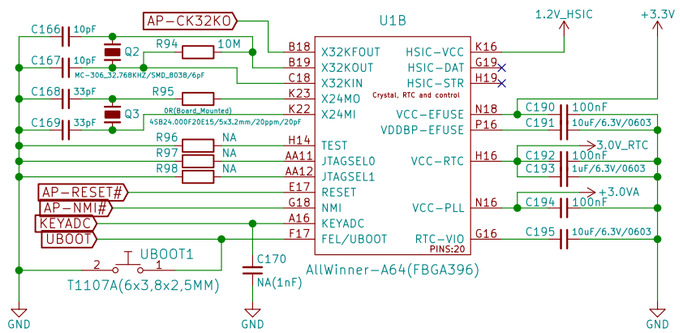
MiPi-DSI







Crystal, RTC & Control



DDR3 Memory

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Sheet: /Power Supply, Extensions and MiPi-DSI/
File: Power Supply, Extensions and MiPi-DSI .sch

Title: A64-OlimeXino

Size: A3	Date: 2015-10-15	**Rev: Rev_A**
KiCad E.D.A.	kicad 0.201511041201+629730ubuntu15.10.1-product	Id: 4/4