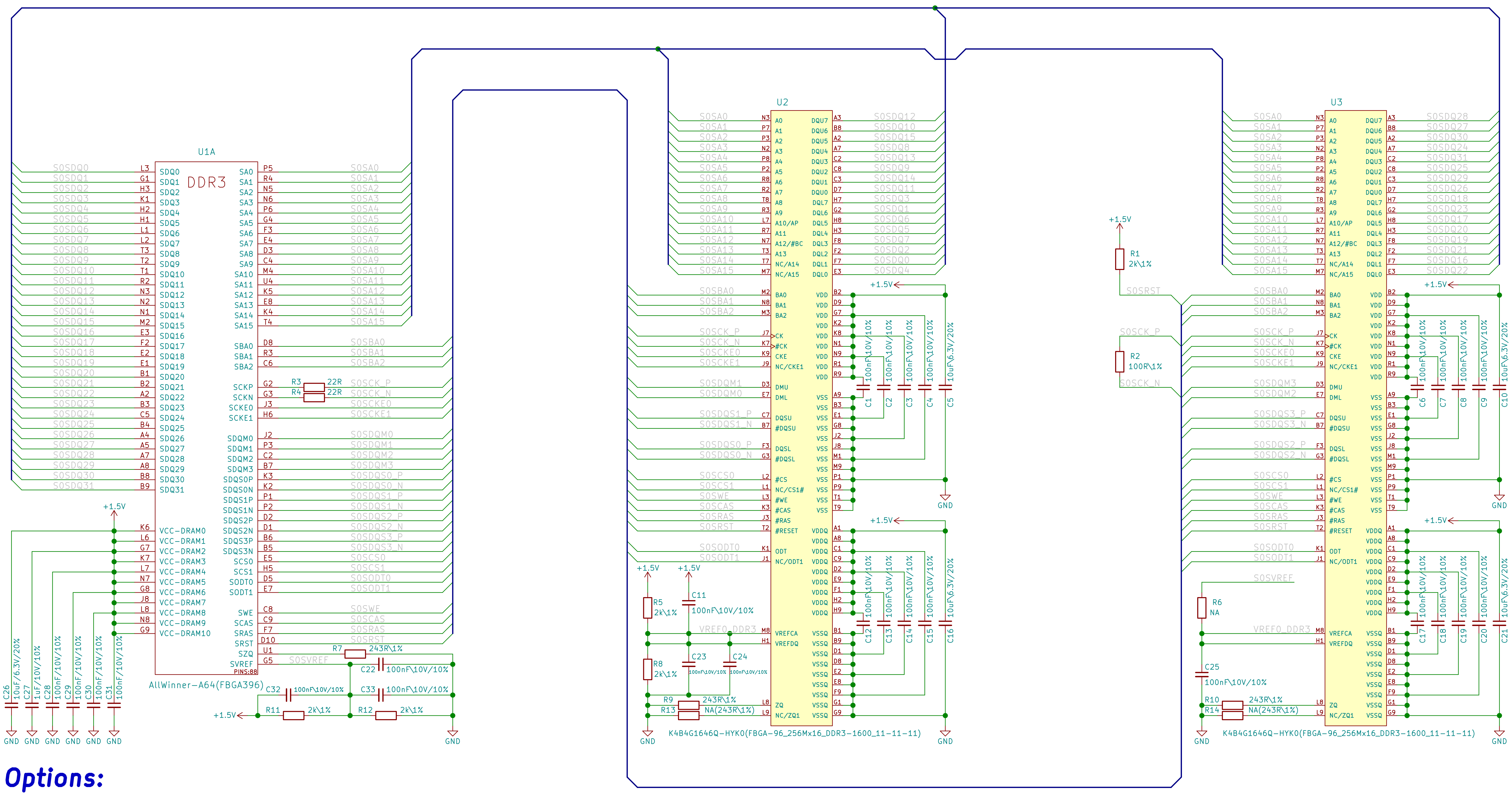
DDR3:1GByte



Options:

=======

1. Use 2(DDR3 256Mx16 Memory chips)x4Gb = 1GByte, i.e. 2xH5TQ4G63MFR-PBC(or K4B4G1646Q-HYK0) -> Default
2. Use 2(DDR3 512Mx16 Memory chips)x8Gb = 2GBytes, i.e. 2xH5TC8G63AMR-PBA(or K4B8G1646Q-MYK0)

Note:

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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In such cases the memory part name in the schematic might remain outdated.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> 2020
OLIMEX LTD, Bulgaria
Sheet: /
File: A64-OlinuXino_Rev_G.sch
Title: A64-OLinuXino
Size: A3 Date: 2020-02-11 **Rev: G**
KiCad E.D.A. kicad 5.1.0-rc2-unknown-036be7d80ubuntu16.04.1 Id: 1/4

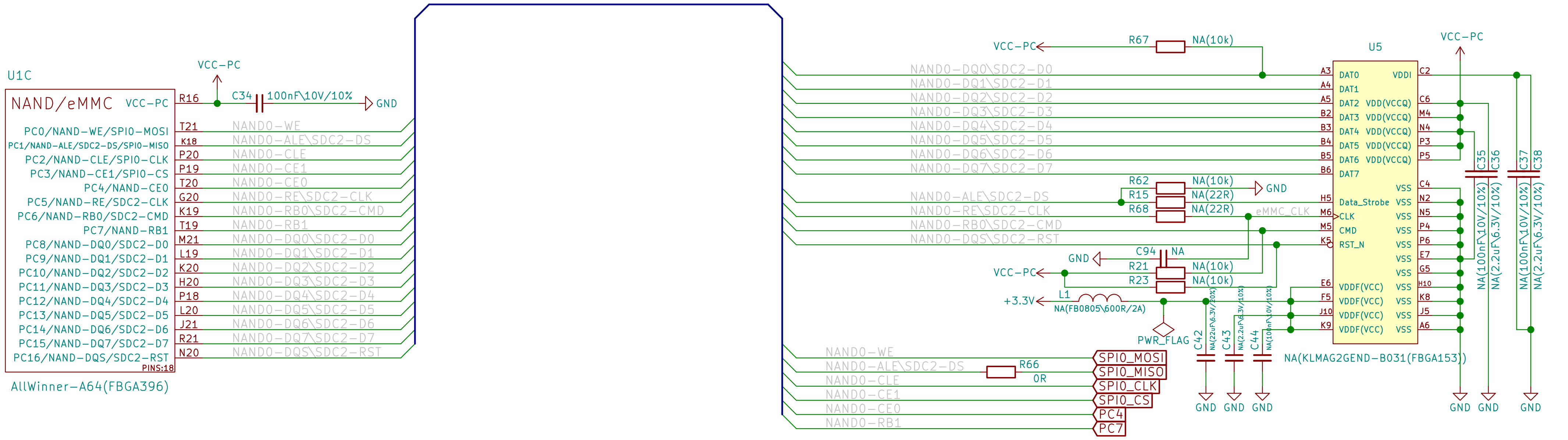
NAND Flash

Was removed from the design

eMMC

16G Bytes eMMC

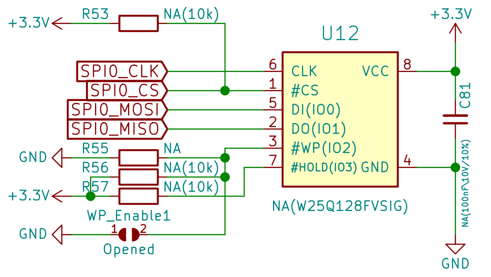
Present in -eXG



SPI Flash

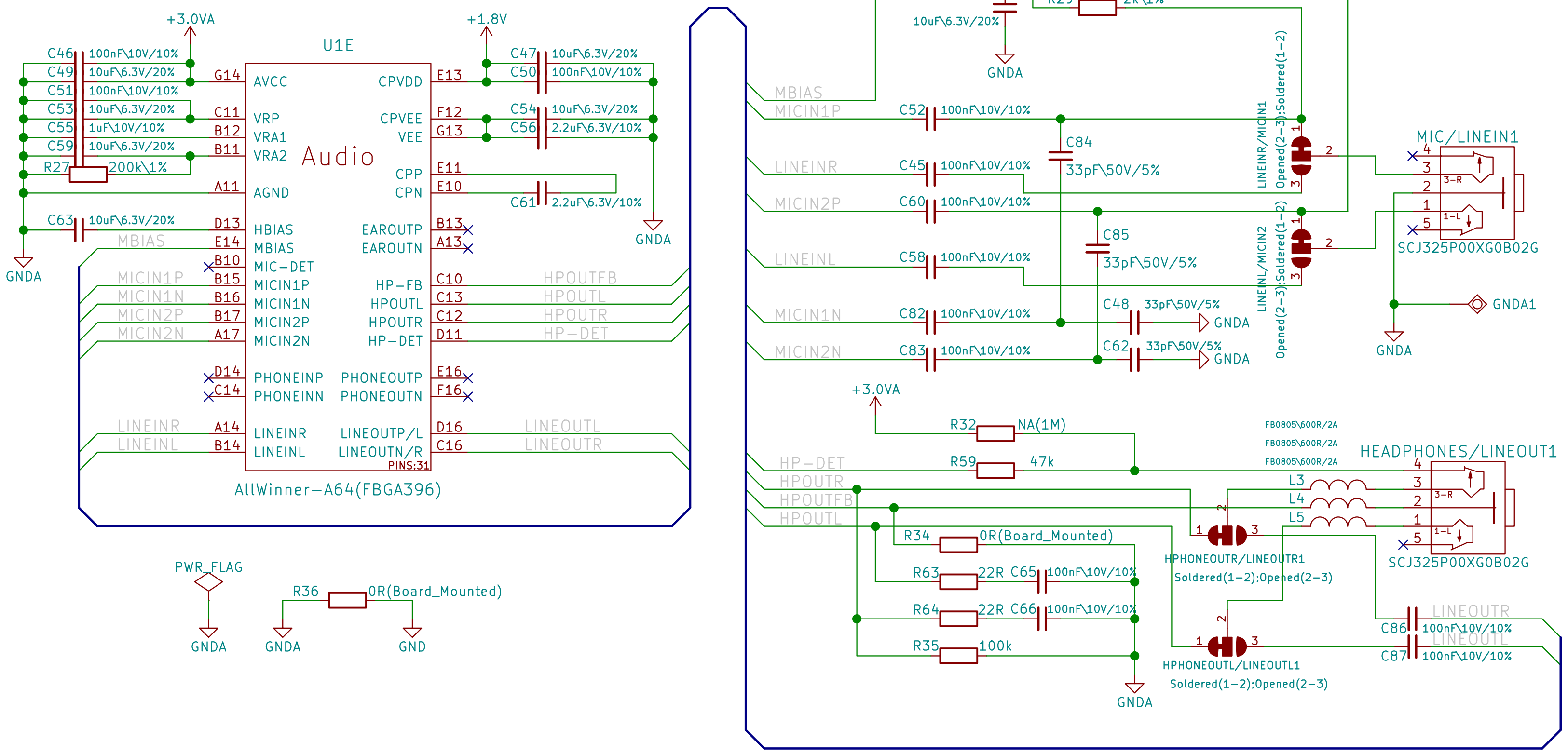
16M Bytes SPI Flash

Present in -sXM

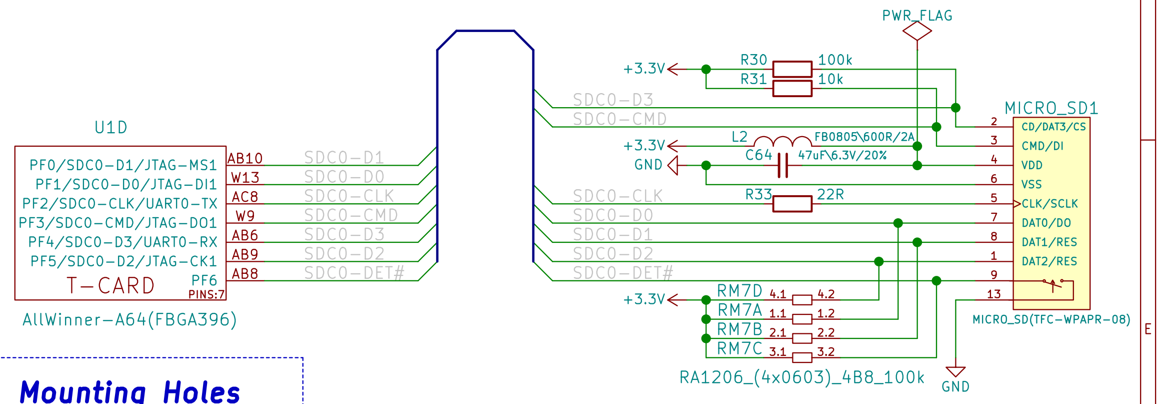


Audio

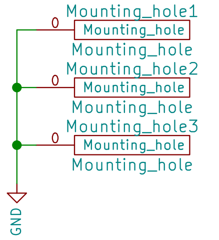
CPVEE and VEE to be made as Kelvin connection.



T-Card



Mounting Holes



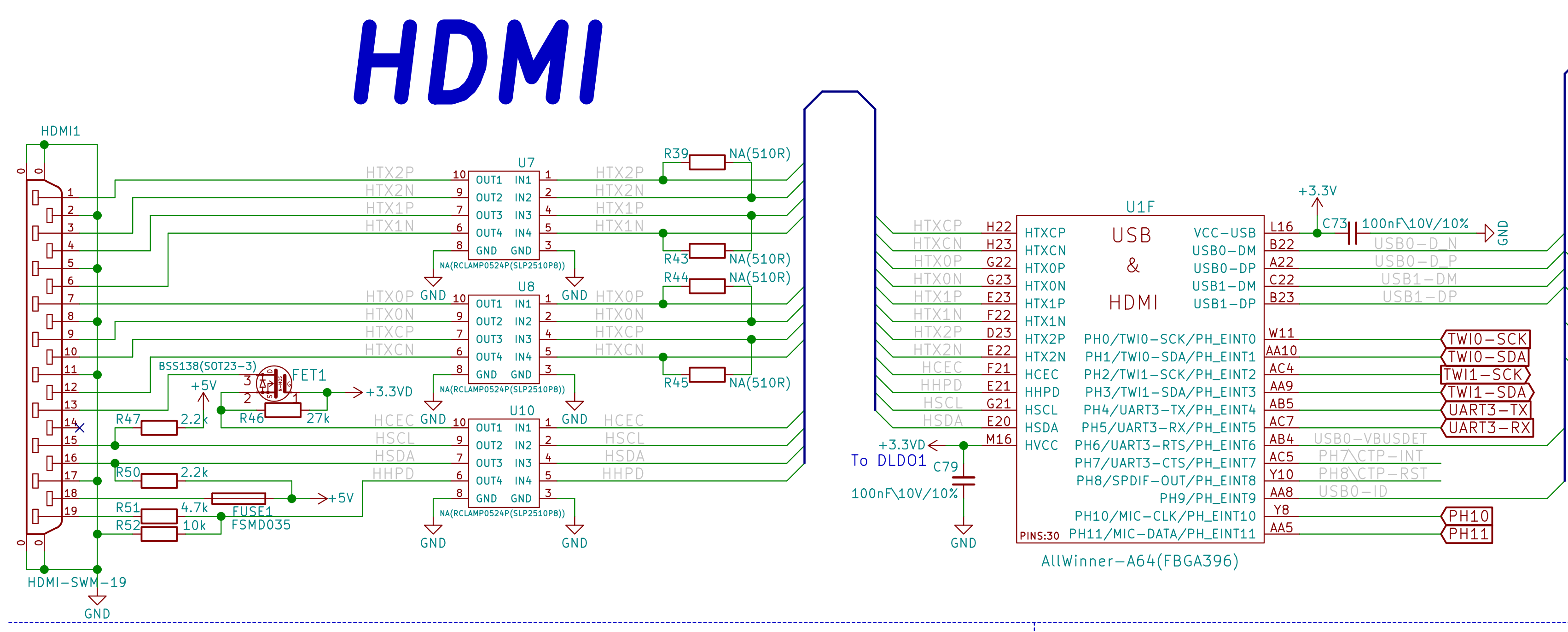
<c> 2025

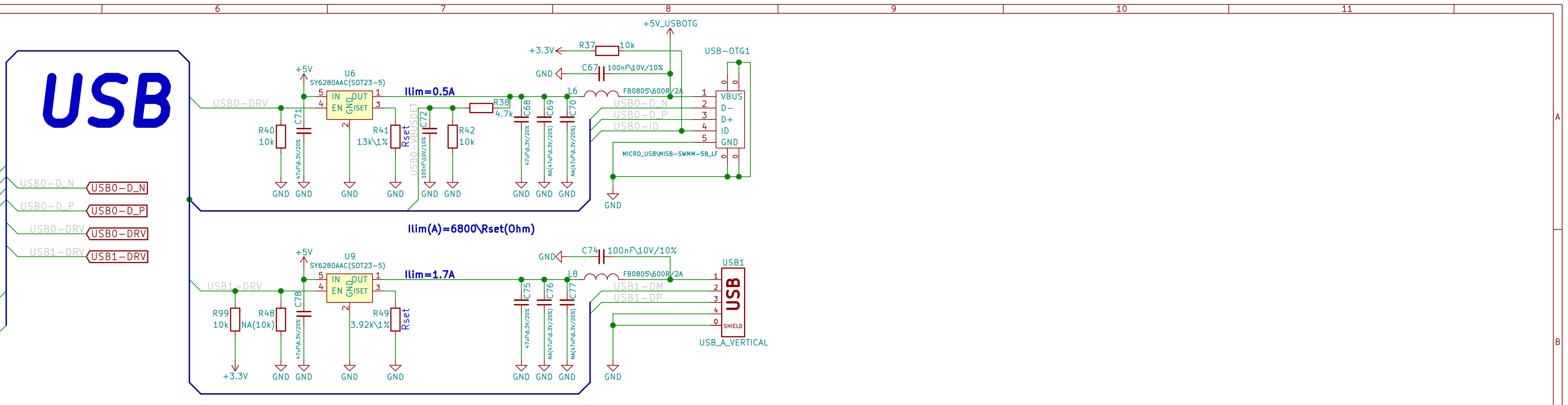
OLIMEX LTD, Bulgaria

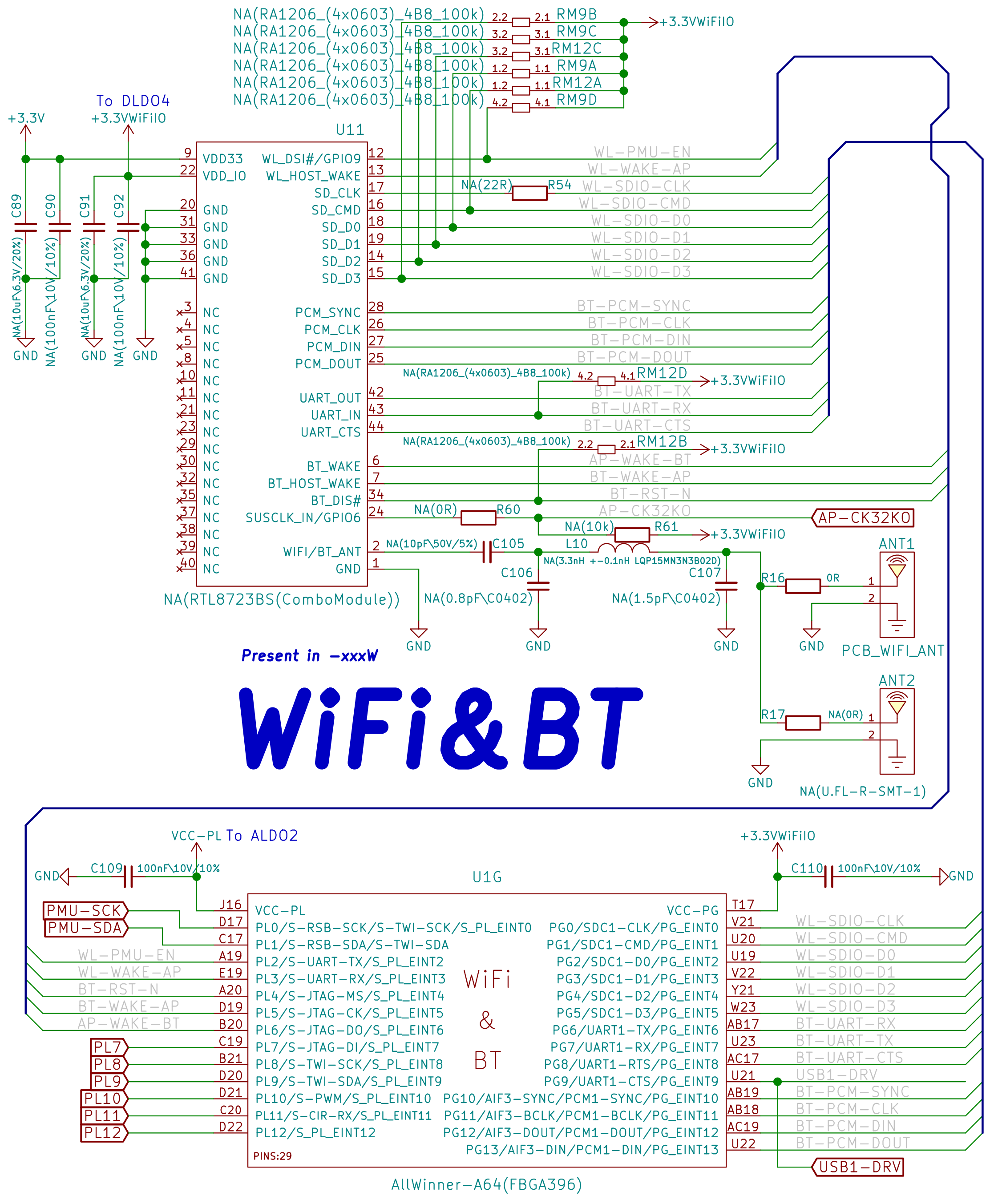
Sheet: /NAND Flash , eMMC, T-Card and Audio/
File: NAND Flash , eMMC, T-Card and Audio.sch

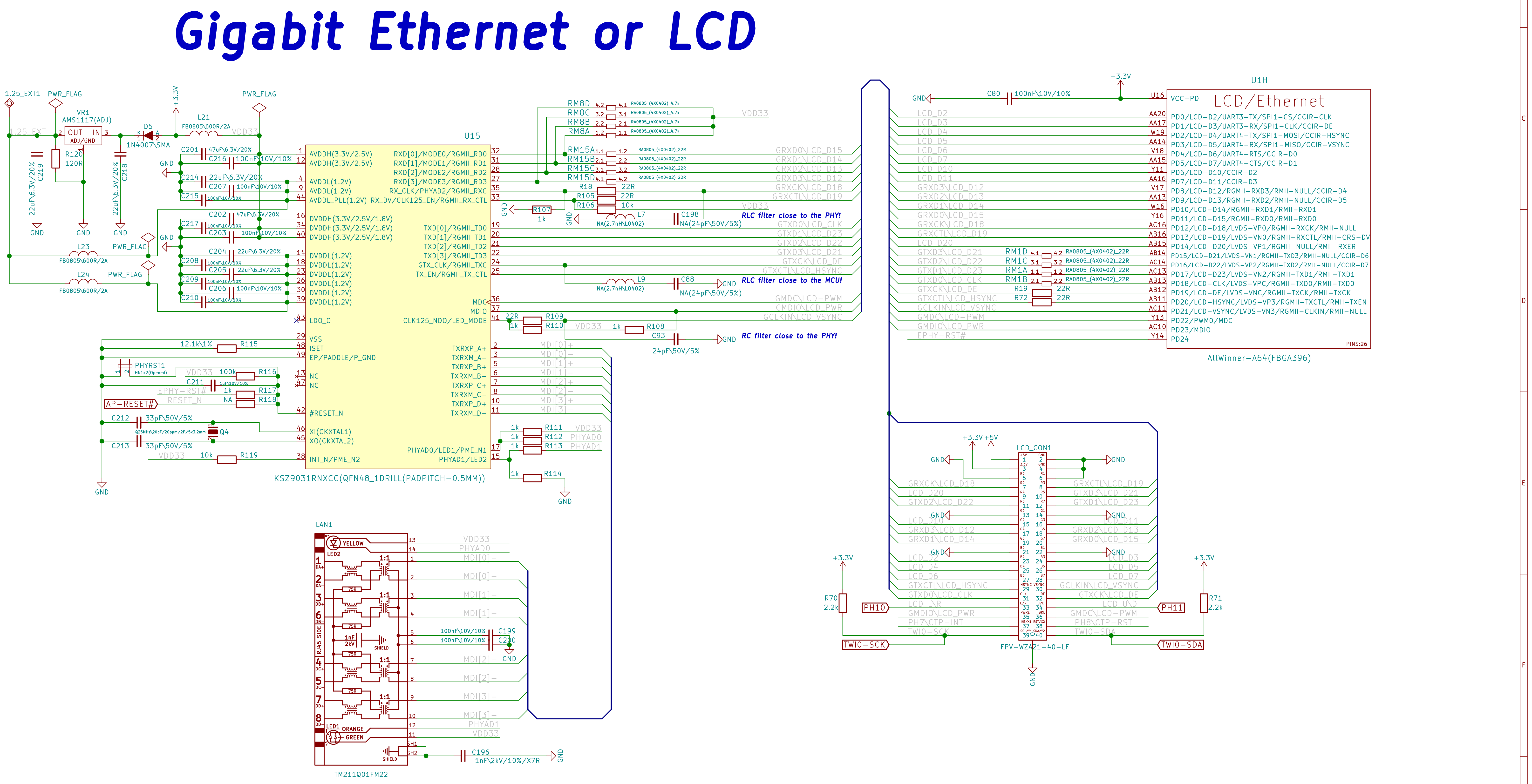
Title: A64-OLinuXino

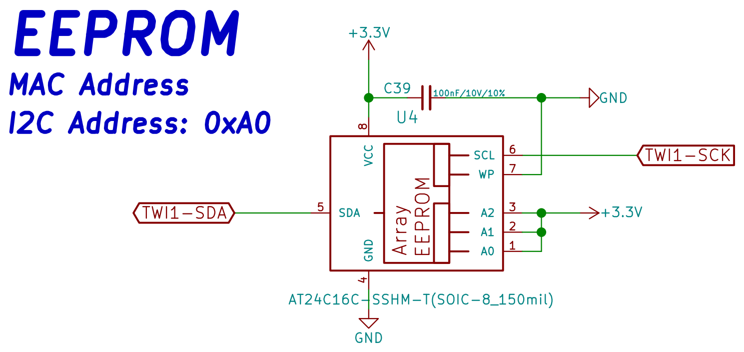
Size: A3 Date: 2025-04-09 **Rev: G1**
KiCad E.D.A. kicad 5.1.0-rc2-unknown-036be7d80ubuntu16.04.1 Id: 2/4











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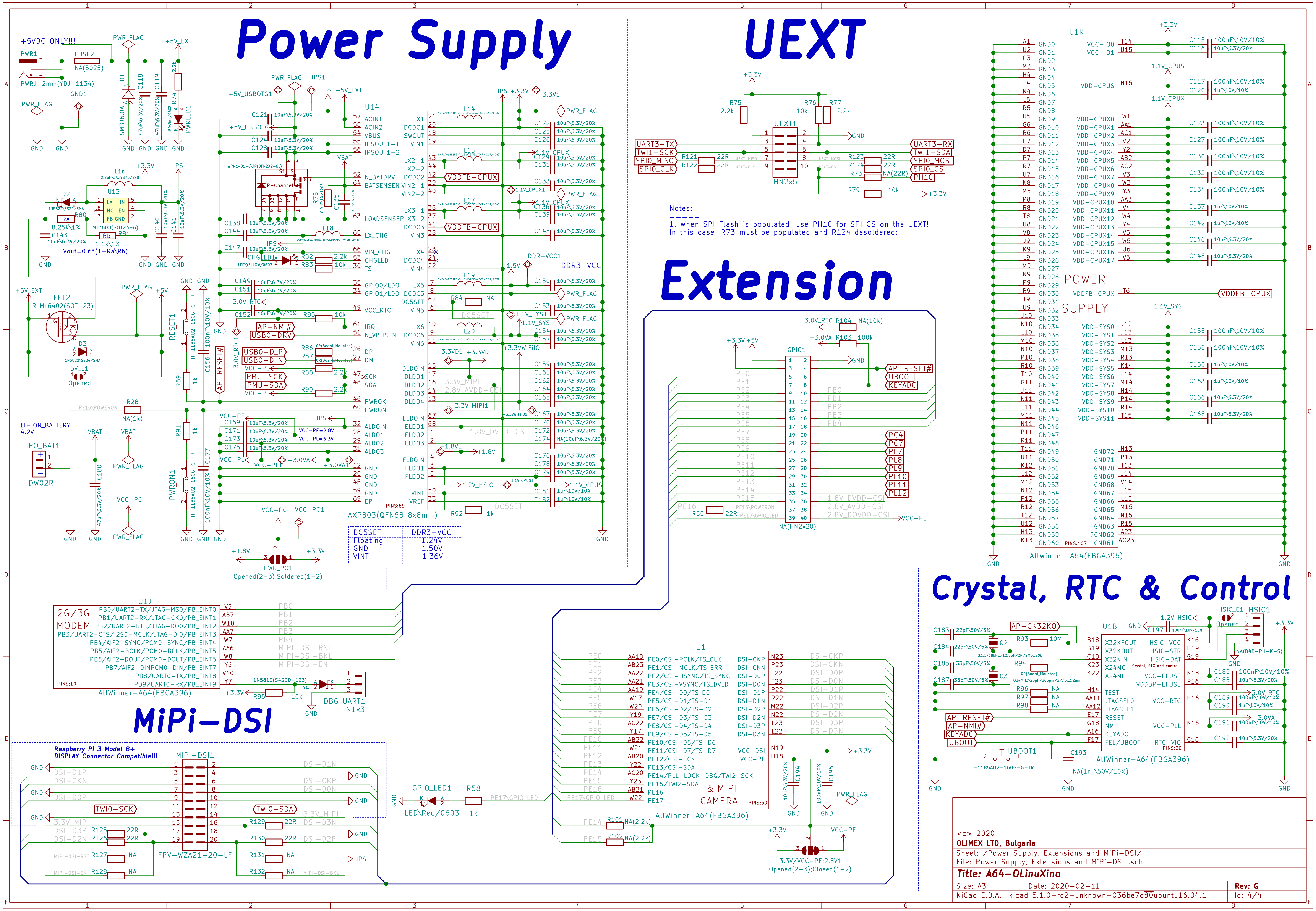
Sheet: /USB&HDMI,WiFi&BT,Ethernet,LCD/
File: USB&HDMI,WiFi&BT,Ethernet,LCD.sch

Title: A64-OLinuXino

Size: A2 | Date: 2020-02-11 | **Rev: G**
KiCad E.D.A. kicad 5.1.0-rc2-unknown-036be7d80ubuntu16.04.1 | Id: 3/4



Notes:
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1. When SPI_Flash is populated, use PH10 for SPI_CS on the UEXT!
In this case, R73 must be populated and R124 desoldered;

DC5SET	DDR3-VCC
Floating	1.24V
GND	1.50V
VINT	1.36V

OLIMEX LTD, Bulgaria
Sheet: /Power Supply, Extensions and MiPi-DSI/
File: Power Supply, Extensions and MiPi-DSI .sch
Title: A64-OLinuXino
Size: A3 Date: 2020-02-11 **Rev: G**
KiCad E.D.A. kicad 5.1.0-rc2-unknown-036be7d80ubuntu16.04.1 Id: 4/4